

Draft
Environmental Impact Statement /
Environmental Impact Report for the
Edwards AFB Solar Project
Appendices

SCH# 2017111079

Volume 1
Appendices A through B3

Edwards AFB Solar Project
(PP18136)



Kern County
Planning and Natural Resources Department
Bakersfield, California



Department of the Air Force
Headquarters 412th Test Wing (AFMC)
Edwards Air Force Base California

June 2019

Draft
Environmental Impact Statement /
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Volume 1
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Edwards AFB Solar Project
(PP18136)

Kern County Planning and Natural Resources Department
Public Services Building
Attn: Craig Murphy, Division Chief
2700 M Street, Suite 100
Bakersfield, CA 93301-2370
(661) 862-8600

412 CEG/CEVA
Attn: Andrea Brewer-Anderson
120 N. Rosamond Blvd.
Building 3735, Suite A
Edwards AFB, CA 93524-8600
(661) 277-4948

Technical Assistance by:
ESA
626 Wilshire Boulevard, Suite 1100
Los Angeles, CA 90017
(213) 599-4300

June 2019

Appendix A

Consultation

A1. NOI/NOP

Lorelei H. Oviatt, AICP, Director
2700 "M" Street, Suite 100
Bakersfield, CA 93301-2323
Phone: (661) 862-8600
Fax: (661) 862-8601 TTY Relay 1-800-735-2929
Email: planning@co.kern.ca.us
Web Address: <http://pcd.kerndsa.com/>



**PLANNING AND NATURAL
RESOURCES DEPARTMENT**

Planning
Community Development
Administrative Operations

NOTICE OF PREPARATION

DATE: November 27, 2017

TO: See Attached Mailing List

FROM: Kern County Planning and
Natural Resources Department
Attn: Janice Mayes
2700 "M" Street, Suite 100
Bakersfield, CA 93301 (661) 862-8793
majesj@kerncounty.com

RE: NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT

The Kern County Planning and Natural Resources Department, as Lead CEQA Agency (pursuant to California Environmental Quality Act [CEQA] Guidelines Section 15052) has determined that preparation of an Environmental Impact Report (EIR) (pursuant to CEQA Guidelines Section 15161) is necessary for the project identified below. The Planning and Natural Resources Department solicits the views of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities about the proposed project. Your agency will need to use the EIR prepared by our agency when considering your permit or other approval of projects.


Due to limits mandated by State law, your response must be received by **December 27, 2017 at 5:00 p.m.** In addition, comments can be submitted at a scoping meeting to be held on **December 12, 2017 at 5:30 p.m.**

SCOPING MEETING: Mojave Veterans Hall, Room 1
15580 O Street, Mojave, CA
5:30 p.m. to 8:30 p.m.

PROJECT TITLE: EIR JKM 07-17; Edwards AFB Solar Project by Edwards AFB Solar, LLC (PP18136)

PROJECT LOCATION: The proposed project is located at the northwest corner of Edwards Air Force Base (AFB), southeast of the unincorporated town of Mojave, in eastern Kern County. The site is located in: Township 10 North, Range 11 West and Township 10 North, Range 12 West; with the transmission corridor running through Township 11 North, Range 12 West; and Township 11 North, Range 13 West, all in the San Bernardino Base and Meridian.

PROJECT DESCRIPTION: The proposed project includes a request for a Franchise Agreement with the County of Kern for the transmission corridor along existing County rights-of-way. As a solar renewable energy development the project would generate up to 600 megawatts (MW) of electricity on approximately 3,500 acres of land within a 6,000-acre area of Edwards AFB. As part of the project a 230-kV overhead interconnection transmission corridor would be installed between Edwards AFB and the privately-owned Westwind Substation and to the SCE's Windhub Substation on Oak Creek Road. The project's permanent facilities would include up to 2 million solar panels, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, on-site substations, energy storage facilities and appurtenances, and operations and maintenance facilities.

Signature: 
Name: Janice Mayes, Planner 2

DEPARTMENT OF DEFENSE

**NOTICE OF INTENT TO PREPARE AN ENVIRONMENTAL IMPACT STATEMENT
AND ENVIRONMENTAL IMPACT REPORT FOR THE EDWARDS AIR FORCE
BASE SOLAR ENHANCED USE LEASE PROJECT**

AGENCY: United States Air Force

ACTION: Notice of Intent

SUMMARY: The United States Air Force (The Air Force) is issuing this notice to advise the public of the intent to prepare a joint Environmental Impact Statement and Environmental Impact Report with the County of Kern, California. The Environmental Impact Statement and Environmental Impact Report will assess the potential environmental consequences of various alternatives for development of the Edwards Air Force Base Solar Enhanced Use Lease Project.

DATES: The Air Force invites the public, stakeholders, and other interested parties to attend an open house public scoping meeting on December 12, 2017 from 5 p.m. to 8 p.m. at the Mojave Veterans Memorial Building located at address 15580 O Street; Mojave, California 93501.

ADDRESSES: Scoping comments may also be submitted to: Gary Hatch, Environmental Public Affairs, Bldg. 1405 Room 400, Edwards Air Force Base, California 93524; e-mail: 412tw.pae@edwards.af.mil, Phone: 661-277-4127, Fax: (661) 277-2732. Handicap assistance or translation service at public meetings can be made available by providing advance notice to Mr. Hatch at the contact information listed above.

Comments will be accepted at any time during the environmental impact analysis process. However, to ensure the Air Force has sufficient time to consider public input in the preparation of the Draft Environmental Impact Statement, scoping comments should be submitted by January 12, 2017.

SUPPLEMENTARY INFORMATION: The Solar Enhanced Use Lease Project will be sited up to 4,000 acres of available, non-excess Air Force land located on Edwards Air Force Base. Alternatives which meet the purpose and need for the Proposed Action have been identified and include the No Action Alternative and two additional alternatives. Alternative A includes full-scale project development of a 600 Megawatt solar PV project and construction of a 150 Megawatt battery storage facility on up to 4,000 acres of Edwards Air Force Base property located in the northwestern corner of the base. Alternative B represents a reduced-scale alternative for the construction and operation of a 200 Megawatt solar PV project and construction of a 150 Megawatt battery storage facility. Under Alternative B, the reduced-scale project will be sited on up to 1,500 acres of Edwards Air Force Base non-excess property within the same project footprint as Alternative A. The project also includes construction of a Gen-tie line of approximately 10-14 miles in total length. The Gen-tie includes a north-south component

and an east-west component. There are three alternatives for the north–south Gen-tie connection. The Proposed Action will include only one of these three north-south route options. There are two alternatives for the east–west Gen-tie connection. The Proposed Action will include only one of these two east–west route options. The Proposed Action is subject to the requirements and objectives of Executive Order 11988, Floodplain Management, as amended. All alternatives for the Proposed Action, including alternatives for the Gen-tie line will result in impacts to floodplains.

SCOPING AND AGENCY COORDINATION: To effectively define the full range of issues to be evaluated in the Environmental Impact Statement and Environmental Impact Report, the Air Force will determine the scope of the analysis by soliciting comments from interested local, state and federal elected officials and agencies, as well as interested members of the public and others. Implementation of the Edwards Solar Enhanced Use Lease Project would have the potential to be located in a floodplain and/or wetland. Consistent with the requirements and objectives of Executive Order 11990, “Protection of Wetlands,” and Executive Order 11988, “Floodplain Management,” as amended by Executive Order 13690, “Establishing a Federal Flood Risk Management Standard and a Process for Further Soliciting and Considering Stakeholder Input,” state and federal regulatory agencies with special expertise in wetlands and floodplains will be contacted to request comment. Consistent with Executive Order 11988, Executive Order 13690, and Executive Order 11990, this Notice of Intent initiates early public review of the alternatives that have the potential to be located in a floodplain and/or wetland. Notification of the meeting locations, dates, and times will be published and announced in local news media no later than 15 days prior to public scoping meetings.

The scoping process will help identify the full range of reasonable alternatives, potential impacts, and key issues to be emphasized in the environmental analysis. The Air Force has identified potential impacts to the following resources: Air Quality, Biological Resources, Cultural and Historical Resources, Water Resources, Land Use, Paleontological Resources, Soils, and Visual Resources. Scoping will assist the Air Force and Kern County in identifying and addressing other issues of concern.

Oral and written comments presented at the public scoping meetings, as well as written comments received by the Air Force or County of Kern will be considered in the preparation of the Draft Environmental Impact Statement and Environmental Report.

Edwards AFB Solar Project (EIR 07-17)
WO #PP18136
I:\Planning\WORKGRPS\WP\LABELS\eir07-17jkm.ec.doc
Sc 11/15/17

City of Arvin
P.O. Box 548
Arvin, CA 93203

Bakersfield City Planning Dept
1715 Chester Avenue
Bakersfield, CA 93301

Bakersfield City Public Works Dept
1501 Truxtun Avenue
Bakersfield, CA 93301

California City Planning Dept
21000 Hacienda Blvd.
California City, CA 93515

Delano City Planning Dept
P.O. Box 3010
Delano, CA 93216

City of Maricopa
P.O. Box 548
Maricopa, CA 93252

City of McFarland
401 West Kern Avenue
McFarland, CA 93250

City of Ridgecrest
100 West California Avenue
Ridgecrest, CA 93555

City of Shafter
336 Pacific Avenue
Shafter, CA 93263

City of Taft
Planning & Building
209 East Kern Street
Taft, CA 93268

City of Tehachapi
Attn: John Schlosser
115 South Robinson Street
Tehachapi, CA 93561-1722

Ventura County RMA Planning Div
800 South Victoria Avenue, L1740
Ventura, CA 93009-1740

Inyo County Planning Dept
P.O. Drawer "L"
Independence, CA 93526

Kings County Planning Agency
1400 West Lacey Blvd, Bldg 6
Hanford, CA 93230

Los Angeles Co Reg Planning Dept
320 West Temple Street
Los Angeles, CA 90012

San Bernardino Co Planning Dept
385 North Arrowhead Avenue, 1st Floor
San Bernardino, CA 92415-0182

San Luis Obispo Co Planning Dept
Planning and Building
976 Osos Street
San Luis Obispo, CA 93408

Santa Barbara Co Resource Mgt Dept
123 East Anapamu Street
Santa Barbara, CA 93101

Tulare County Planning & Dev Dept
5961 South Mooney Boulevard
Visalia, CA 93291

Ventura County RMA Planning Div
800 South Victoria Avenue, L1740
Ventura, CA 93009-1740

U.S. Bureau of Land Management
Ridgecrest Field Office
300 South Richmond Road
Ridgecrest, CA 93555

China Lake Naval Weapons Center
Tim Fox, RLA - Comm Plans & Liaison
429 E Bowen, Building 981
Mail Stop 4001
China Lake, CA 93555

Edwards AFB, Sustainability Office
412 TW/XPO, Bldg 2750, Rm 204-38
195 East Popson Avenue
Edwards AFB, CA 93524

Federal Aviation Administration
Western Reg Office/
Airport Div - Room 3000
15000 Aviation Boulevard
Lawndale, CA 90261

Federal Communications Comm
18000 Studebaker Road, #660
Cerritos, CA 90701

U.S. Fish & Wildlife Service
777 East Tahquitz Canyon Way, Suite 208
Palm Springs, CA 92262

Eastern Kern Resource Cons Dist
300 South Richmond Road
Ridgecrest, CA 93555-4436

Environmental Protection Agency
Region IX Office
75 Hawthorn Street
San Francisco, CA 94105

U.S. Dept of Agriculture/NRCS
5000 California Avenue, Ste 100
Bakersfield, CA 93309-0711

U.S. Army Corps of Engineers
P.O. Box 997
Lake Isabella, CA 93240

U.S. Army Corps of Engineers
Regulatory Division
1325 "J" Street, #1350
Sacramento, CA 95814-2920

U.S. Postal Service
Address Management Systems
28201 Franklin Parkway
Santa Clarita, CA 91383-9321

State Air Resources Board
Stationary Resource Division
P.O. Box 2815
Sacramento, CA 95812

So. San Joaquin Valley Arch Info Ctr
California State University of Bkfd
9001 Stockdale Highway
Bakersfield, CA 93311

Caltrans/Dist 6
Planning/Land Bank Bldg.
P.O. Box 12616
Fresno, CA 93778

Caltrans/Dist 9
Planning Department
500 South Main Street
Bishop, CA 93514

State Clearinghouse
Office of Planning and Research
1400 - 10th Street, Room 222
Sacramento, CA 95814

State Dept of Conservation
Director's Office
801 "K" Street, MS 24-01
Sacramento, CA 95814-3528

State Dept of Conservation
Division of Oil & Gas
4800 Stockdale Highway, Ste 108
Bakersfield, CA 93309

State Dept of Conservation
Office of Land Conservation
801 "K" Street, MS 18-01
Sacramento, CA 95814

California State University
Bakersfield - Library
9001 Stockdale Highway
Bakersfield, CA 93309

California Energy Commission
James W. Reed, Jr.
1516 Ninth Street
Mail Stop 17
Sacramento, CA 95814

California Fish & Wildlife
1234 East Shaw Avenue
Fresno, CA 93710

California Highway Patrol
Planning & Analysis Division
P.O. Box 942898
Sacramento, CA 94298-0001

Public Utilities Comm Energy Div
505 Van Ness Avenue
San Francisco, CA 94102

California Regional Water Quality
Control Board/Lahontan Region
15095 Amargosa Road - Bld 2, Suite 210
Victorville, CA 92392

State Lands Commission
100 Howe Avenue, Ste 100-South
Sacramento, CA 95825-8202

State Dept of Toxic Substance Control
Environmental Protection Agency
1515 Tollhouse Road
Clovis, CA 93612

Kern County
Agriculture Department

Kern County Administrative Officer

Kern County Public Works Department/
Building & Development/Floodplain

Kern County Public Works Department/
Building & Development/Survey

Kern County
Env Health Services Department

Kern County Fire Dept
Brian Marshall, Fire Chief

Kern County Fire Dept
Cary Wright, Fire Marshall

Kern County Library/Beale
Local History Room

Kern County Library/Beale
Andie Apple

Kern County Library
California City Branch
9507 California City Boulevard
California City, CA 93505

Kern County Library
Mojave Branch
16916 1/2 Highway 14, Space D2
Mojave, CA 93501

Kern County Library
Wanda Kirk/Rosamond Branch
3611 Rosamond Boulevard
Rosamond, CA 93560

Kern County Parks & Recreation

Kern County Sheriff's Dept
Administration

Kern County Public Works Department/
Building & Development/Development
Review

Kern County Public Works
Department/Operations &
Maintenance/Regulatory Monitoring &
Reporting

Kern County Public Works Department/
Building & Development/Code
Compliance

Mojave Town Council
Bill Deaver, President
P.O. Box 1113
Mojave, CA 93502-1113

Mojave Unified School Dist
3500 Douglas
Mojave, CA 93501

Southern Kern Unified School Dist
P.O. Box CC
Rosamond, CA 93560

Kern County Superintendent of Schools
Attention Mary Baker
1300 17th Street
Bakersfield, CA 93301

KernCOG
1401 19th Street - Suite 300
Bakersfield, CA 93301

Golden Hills Community Serv Dist
P.O. Box 637
Tehachapi, CA 93581

Mojave Public Utility Dist
15844 "K" Street
Mojave, CA 93501

Antelope Valley-East Kern
Water Agency
6500 West Avenue N
Palmdale, CA 93551

Kern County Water Agency
P.O. Box 58
Bakersfield, CA 93302-0058

East Kern Air Pollution
Control District

Mojave Airport
1434 Flightline
Mojave, CA 93501

East Kern Airport Dist
Attention Stuart Witt
1434 Flightline
Mojave, CA 93501

East Kern Airport Dist Engineer
3900 Ridgemoor Avenue
Bakersfield, CA 93306

Northcutt and Associates
4220 Poplar Street
Lake Isabella, CA 93240-9536

Adams, Broadwell, Joseph & Cardozo
Attention: Janet M. Laurain
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

AT&T California
OSP Engineering/Right-of-Way
4540 California Avenue, 4th Floor
Bakersfield, CA 93309

Kern Audubon Society
Attn: Harry Love, President
13500 Powder River Avenue
Bakersfield, CA 93314

Los Angeles Audubon
926 Citrus Avenue
Los Angeles, CA 90036-4929

Center on Race, Poverty
& the Environment
Attn: Marissa Alexander
1999 Harrison Street – Suite 650
San Francisco, CA 94612

Center on Race, Poverty
& the Environmental/
CA Rural Legal Assistance Foundation
1012 Jefferson Street
Delano, CA 93215

Defenders of Wildlife/
Kim Delfino, California Dir
980 - 9th Street, Suite 1730
Sacramento, CA 95814

Desert Tortoise Preserve Committee
4067 Mission Inn Avenue
Riverside, CA 92501

California Farm Bureau
2300 River Plaza Drive, NRED
Sacramento, CA 95833

Mojave Chamber of Commerce
P.O. Box 935
Mojave, CA 93502

Native American Heritage Council
of Kern County
Attn: Gene Albitre
3401 Aslin Street
Bakersfield, CA 93312

Beth Boyst
Pacific Crest Trail Program Manager
1323 Club Drive
Vallejo, CA 94592

Anitra Kass
Pacific Crest Trail Association
41860 Saint Annes Bay Drive
Bermuda Dunes, CA 92203

Sierra Club/Kern Kaweah Chapter
P.O. Box 3357
Bakersfield, CA 93385

Southern California Edison
2244 Walnut Grove, Ave, GO-1 Quad 2C
Rosemead, CA 91770

Southern California Gas Co
1510 North Chester Avenue
Bakersfield, CA 93308

Southern California Gas Co
Transportation Dept
9400 Oakdale Avenue
Chatsworth, CA 91313-6511

Chumash Council of Bakersfield
2421 "O" Street
Bakersfield, CA 93301-2441

David Laughing Horse Robinson
P.O. Box 20849
Bakersfield, CA 93390

Kern Valley Indian Council
Attn: Robert Robinson, Chairperson
P.O. Box 401
Weldon, CA 93283

Kern Valley Indian Council
Historic Preservation Office
P.O. Box 401
Weldon, CA 93283

Santa Rosa Rancheria
Ruben Barrios, Chairperson
P.O. Box 8
Lemoore, CA 93245

Tejon Indian Tribe
Kathy Morgan, Chairperson
1731 Hasti-acres Drive, Suite 108
Bakersfield, CA 93309

Kitanemuk & Yowlumne Tejon Indians
Chairperson
115 Radio Street
Bakersfield, CA 93305

Tubatulabals of Kern County
Attn: Robert Gomez, Chairperson
P.O. Box 226
Lake Isabella, CA 93240

Tule River Indian Tribe
Neal Peyron, Chairperson
P.O. Box 589
Porterville, CA 93258

Matthew Gorman
The Gorman Law Firm
1346 E. Walnut Street, Suite 220
Pasadena, CA 91106

Eight Bar Ranch
Jon and Helen Lantz
11300 Cameron Canyon Road
Mojave, CA 93501

Joyce LoBasso
P.O. Box 6003
Bakersfield, CA 93386

LIUNA
Attn: Arthur Izzo
2201 "H" Street
Bakersfield, CA 93301

Mojave Foundation
Attn: Todd Quelet
16922 Airport Boulevard
Mojave, CA 93501

Tehachapi Resource Cons Dist
321 West "C" Street
Tehachapi, CA 93561-2011

Vestas
1417 NW Everett Street
Portland, OR 97209

Lozeau Drury LLP
410 – 12th Street, Suite 250
Oakland, CA 94607

Supervisor Zack Scrivner
2nd District

State Dept of Public Health
Drinking Water Field Ops
265 W Bullard Avenue, Ste 101
Fresno, CA 93704-1755

Southern California Edison
Planning Dept.
421 West "J" Street
Tehachapi, CA 93561

Congentrix Sunshine, LLC
Rick Neff
9405 Arrowpoint Blvd
Charlotte, NC 28273

Terra-Gen
Randy Hoyle, Sr. Vice Pres
11512 El Camino Real, Suite 370
San Diego, CA 92130

Renewal Resources Group
Holding Company
Rupal Patel
113 South La Brea Avenue, 3rd Floor
Los Angeles, CA 90036

Wind Stream, LLC
Albert Davies
1275 - 4th Street, No. 107
Santa Rosa, CA 95404

Fotowatio Renewable Ventures
Sean Kiernan
44 Montgomery Street, Suite 2200
San Francisco, CA 94104

EDP Renewables Company
53 SW Yamhill Street
Portland, OR 97204

PG&E
Steven Ng, Manager
Renewal Dev, T&D Intercon
77 Beal Street, Room 5361
San Francisco, CA 94105

Darren Kelly, Sr. Business Mgr
Terra-Gen Power, LLC
1095 Avenue of the Americas, 25th Floor,
Ste A
New York, NY 10036-6797

Bill Barnes, Dir of Asset Mgt
AES Midwest Wind Gen
P.O. Box 2190
Palm Springs, CA 92263-2190

Recurrent Energy
Seth Israel
300 California Street, 8th Floor
San Francisco, CA 92109

Wayne Mayes, Dir Tech Serv
Iberdrola Renewables
1125 NW Couch St, Ste 700, 7th Fl
Portland, OR 97209

Michael Strickler, Sr Project Mgr
Iberdrola Renewables
1125 NW Couch St, Ste 700, 7th Fl
Portland, OR 97209

T.T Case
P.O. Box 2416
Tehachapi, CA 93581

Tehachapi Area Assoc of Realtors
Carol Lawhon, Assoc Exe, IOM
803 Tucker Road
Tehachapi, CA 93561

Kelly Group
Kate Kelly
P.O. Box 868
Winters, CA 95694

Structure Cast
Larry Turpin, Sales Mgr
8261 McCutchen Road
Bakersfield, CA 93311

Beyond Coal Campaign/Sierra Club
Sarah K. Friedman
1417 Calumet Avenue
Los Angeles, CA 90026

Robert Burgett
9261 - 60th Street, West
Mojave, CA 93501

David Walsh
22941 Banducci Road
Tehachapi, CA 93561

U.S. Air Force
Attn: David Bell/AFCEC CZPW
Western Regional/Leg Branch
510 Hickman Ave., Bld 250-A
Travis AFB, CA 94535-2729

U.S. Army
Attn: Philip Crosbie, Chief
Strategic Plans, S3, NTC
P.O. Box 10172
Fort Irwin, CA 92310

U.S. Army
Attn: Tim Kilgannon, Region 9
Coordinator
Office of Strategic Integration
721 - 19th Street, Room 427
Denver, CO 80202

U.S. Navy
Attn: Steve Chung
Regional Community & Liaison Officer
1220 Pacific Highway
San Diego, CA 92132-5190

U.S. Marine Corps
Attn: Patrick Christman
Western Regional Environmental Officer
Building 1164/Box 555246
Camp Pendleton, CA 92055-5246

Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P. O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH #

Project Title: EIR JKM 07-17; Edwards Air Force Base Solar Project by Edwards AFB Solar, LLC.

Lead Agency: Kern County Planning Department Contact Person: Janice Mayes
 Mailing Address: 2700 "M" Street Suite 100 Phone: (661) 862-8793
 City: Bakersfield Zip: 93301-2323 County: Kern

Project Location: County: Kern City/Nearest Community: Rosamond, City of Mojave
 Cross Streets: Trotter Avenue and Lone Butte Road Zip Code: N/A
 Lat. / Long.: 34° 58' 0" N / 118° 8' 27" W Total Acres: 6,000
 Assessor's Parcel No.: Edwards AFB -Multiple Section: Multiple Twn: 10 & 11N Range: 11;12; & 13W Base: SBB&M
 Within 2 Miles: State Hwy #: SR 14 Waterways: N/A
 Airports: N/A Railways: N/A Schools: N/A

Document Type:

CEQA: <input checked="" type="checkbox"/> NOP	<input type="checkbox"/> Draft EIR	NEPA: <input checked="" type="checkbox"/> NOI	Other: <input type="checkbox"/> Joint Document
<input type="checkbox"/> Early Cons	<input type="checkbox"/> Supplement/Subsequent EIR	<input type="checkbox"/> EA	<input type="checkbox"/> Final Document
<input type="checkbox"/> Neg Dec	(Prior SCH No.) _____	<input type="checkbox"/> Draft EIS	<input type="checkbox"/> Other _____
<input type="checkbox"/> Mit Neg Dec	Other _____	<input type="checkbox"/> FONSI	

Local Action Type:

<input type="checkbox"/> General Plan Update	<input type="checkbox"/> Specific Plan	<input type="checkbox"/> Rezone	<input type="checkbox"/> Annexation
<input type="checkbox"/> General Plan Amendment	<input type="checkbox"/> Master Plan	<input type="checkbox"/> Prezone	<input type="checkbox"/> Redevelopment
<input type="checkbox"/> General Plan Element	<input type="checkbox"/> Planned Unit Development	<input type="checkbox"/> Use Permit	<input type="checkbox"/> Coastal Permit
<input type="checkbox"/> Community Plan	<input type="checkbox"/> Site Plan	<input type="checkbox"/> Land Division (Subdivision, etc.)	<input checked="" type="checkbox"/> Other <u>Franchise Agrmnt</u>

Development Type:

<input type="checkbox"/> Residential: Units _____ Acres _____	<input type="checkbox"/> Water Facilities: Type _____ MGD _____
<input type="checkbox"/> Office: Sq.ft. _____ Acres _____	<input type="checkbox"/> Transportation: Type _____
<input checked="" type="checkbox"/> Commercial: Sq.ft. _____ Acres <u>3,500</u> Employees <u>10 perm.</u>	<input type="checkbox"/> Mining: Mineral _____
<input type="checkbox"/> Industrial: Sq.ft. _____ Acres _____ Employees _____	<input checked="" type="checkbox"/> Power: Type <u>Solar PV</u> MW <u>up to 600</u>
<input type="checkbox"/> Educational _____	<input type="checkbox"/> Waste Treatment: Type _____ MGD _____
<input type="checkbox"/> Recreational _____	<input type="checkbox"/> Hazardous Waste: Type _____
	<input type="checkbox"/> Other: _____

Project Issues Discussed in Document:

<input checked="" type="checkbox"/> Aesthetic/Visual	<input type="checkbox"/> Fiscal	<input type="checkbox"/> Recreation/Parks	<input type="checkbox"/> Vegetation
<input checked="" type="checkbox"/> Agricultural Land	<input checked="" type="checkbox"/> Flood Plain/Flooding	<input type="checkbox"/> Schools/Universities	<input checked="" type="checkbox"/> Water Quality
<input checked="" type="checkbox"/> Air Quality	<input checked="" type="checkbox"/> Forest Land/Fire Hazard	<input checked="" type="checkbox"/> Septic Systems	<input checked="" type="checkbox"/> Water Supply/Groundwater
<input checked="" type="checkbox"/> Archeological/Historical	<input checked="" type="checkbox"/> Geologic/Seismic	<input type="checkbox"/> Sewer Capacity	<input checked="" type="checkbox"/> Wetland/Riparian
<input checked="" type="checkbox"/> Biological Resources	<input checked="" type="checkbox"/> Minerals	<input checked="" type="checkbox"/> Soil Erosion/Compaction/Grading	<input checked="" type="checkbox"/> Wildlife
<input type="checkbox"/> Coastal Zone	<input checked="" type="checkbox"/> Noise	<input checked="" type="checkbox"/> Solid Waste	<input type="checkbox"/> Growth Inducing
<input checked="" type="checkbox"/> Drainage/Absorption	<input type="checkbox"/> Population/Housing Balance	<input checked="" type="checkbox"/> Toxic/Hazardous	<input checked="" type="checkbox"/> Land Use
<input checked="" type="checkbox"/> Economic/Jobs	<input checked="" type="checkbox"/> Public Services/Facilities	<input checked="" type="checkbox"/> Traffic/Circulation	<input checked="" type="checkbox"/> Cumulative Effects
<input type="checkbox"/> Other _____			

Present Land Use/Zoning/General Plan Designation:

Undeveloped EAFB Land. Zoning: A-1 (Limited Agriculture); Kern County General Plan: 1.1 (State and Federal Land); Franchise Agreement land: Multiple zoning and designations within multiple general and specific plans (see NOP details attached)

Project Description: (please use a separate page if necessary) The Developer is requesting: (a) a Franchise Agreement with the County of Kern to facilitate the construction, and operation of an up to 3,500 acres 600 MW solar facility. The project would be supported by a 230-kV overhead/underground transmission corridor. The transmission line would generally be aligned from the north/south and then east/west where it ultimately would be connected to the existing privately-owned Westwind Substation in the first phase of the project and then to the SCE Whirlwind Substation in subsequent phases of the project. The project's permanent facilities would include up to 2 million solar panels, service roads, security fencing, a power collection system, battery storage, communication cables, overhead and underground transmission lines, electrical switchyards, a substation, and an operations and maintenance facility.

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with an "X".
If you have already sent your document to the agency please denote that with an "S".

- | | |
|--|---|
| <input checked="" type="checkbox"/> S Air Resources Board | <input type="checkbox"/> Office of Emergency Services |
| <input type="checkbox"/> Boating & Waterways, Department of | <input type="checkbox"/> Office of Historic Preservation |
| <input checked="" type="checkbox"/> S California Highway Patrol | <input type="checkbox"/> Office of Public School Construction |
| <input type="checkbox"/> CalFire | <input type="checkbox"/> Parks & Recreation |
| <input checked="" type="checkbox"/> S Caltrans District # <u>6 & 9</u> | <input type="checkbox"/> Pesticide Regulation, Department of |
| <input type="checkbox"/> Caltrans Division of Aeronautics | <input checked="" type="checkbox"/> S Public Utilities Commission |
| <input type="checkbox"/> Caltrans Planning (Headquarters) | <input checked="" type="checkbox"/> S Regional WQCB # <u>Lahontan</u> |
| <input type="checkbox"/> Central Valley Flood Protection Board | <input type="checkbox"/> Resources Agency |
| <input type="checkbox"/> Coachella Valley Mountains Conservancy | <input type="checkbox"/> S.F. Bay Conservation & Development Commission |
| <input type="checkbox"/> Coastal Commission | <input type="checkbox"/> San Gabriel & Lower L.A. Rivers and Mtns Conservancy |
| <input type="checkbox"/> Colorado River Board | <input type="checkbox"/> San Joaquin River Conservancy |
| <input checked="" type="checkbox"/> S Conservation, Department of | <input type="checkbox"/> Santa Monica Mountains Conservancy |
| <input type="checkbox"/> Corrections, Department of | <input type="checkbox"/> State Lands Commission |
| <input type="checkbox"/> Delta Protection Commission | <input type="checkbox"/> SWRCB: Clean Water Grants |
| <input type="checkbox"/> Education, Department of | <input type="checkbox"/> SWRCB: Water Quality |
| <input checked="" type="checkbox"/> S Energy Commission | <input type="checkbox"/> SWRCB: Water Rights |
| <input checked="" type="checkbox"/> S Fish & Game Region # <u>Fresno</u> | <input type="checkbox"/> Tahoe Regional Planning Agency |
| <input type="checkbox"/> Food & Agriculture, Department of | <input checked="" type="checkbox"/> S Toxic Substances Control, Department of |
| <input type="checkbox"/> General Services, Department of | <input type="checkbox"/> Water Resources, Department of |
| <input type="checkbox"/> Health Services, Department of | <input checked="" type="checkbox"/> S Other <u>CA Public Health</u> |
| <input type="checkbox"/> Housing & Community Development | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Integrated Waste Management Board | |
| <input checked="" type="checkbox"/> S Native American Heritage Commission (KC) | |

Local Public Review Period (to be filled in by lead agency)

Starting Date November 27, 2017 Ending Date December 27, 2017

Lead Agency (Complete if applicable):

Consulting Firm: <u>ESA</u>	Applicant: <u>County of Kern, Planning & Natural Resources Dept.</u>
Address: <u>626 Wilshire Boulevard, Suite 100</u>	Address: <u>2700 "M" Street, Suite 100</u>
City/State/Zip: <u>Los Angeles, CA 90017</u>	City/State/Zip: <u>Bakersfield, CA 93301</u>
Contact: <u>Jason Ricks, Sr. Managing Associate</u>	Contact: <u>Janice Mayes</u>
Phone: <u>213-599-4318</u>	Phone: <u>661-862-8793</u>

Signature of Lead Agency Representative:  **Date:** 11/27/17

INITIAL STUDY/NOTICE OF PREPARATION

Edwards AFB Solar Project by Edwards AFB Solar, LLC (PP18136)

Franchise Agreement

LEAD AGENCY FOR CEQA:



Kern County Planning and Natural Resources Department
2700 M Street, Suite 100
Bakersfield, CA 93301-2370

Contact: Janice Mayes
(661) 862-8793
majesj@kerncounty.com

November 2017



TABLE OF CONTENTS

NOTICE OF PREPARATION 1

1.0 Project Description 1

1.1 Project Location 1

1.2 Environmental Setting 4

 1.2.1 Solar Facility..... 4

 1.2.2 Gen-Tie Line..... 20

1.3 Project Description 23

 1.3.1 Structures and Facilities..... 23

 1.3.2 Construction..... 26

 1.3.3 Operations and Maintenance 30

 1.3.4 Decommissioning 32

1.4 Project Objectives..... 33

 1.4.1 Air Force Objectives..... 33

 1.4.2 Project Objectives..... 33

1.5 Proposed Discretionary Actions/Required Approvals..... 34

2.0 Kern County Environmental Checklist Form..... 36

2.1 Environmental Factors Potentially Affected: 36

2.2 Determination (To be completed by the Lead Agency) 37

3.0 Evaluation of Environmental Impacts 38

Figures

1 Project Vicinity..... 2

2 Site Boundaries..... 3

3 Existing General Plan: Solar Generation Facility..... 8

4a Existing General Plan: North-South Gen-Tie Route Option 1 9

4b Existing General Plan: North-South Gen-Tie Route Option 2 10

4c Existing General Plan: North-South Gen-Tie Route Option 3 11

5a Existing General Plan: East-West Gen-Tie Route..... 12

5b Existing General Plan: East-West Gen-Tie Route Options A & B 13

6 Existing Zoning: Solar Generation Facility..... 14

7a Existing Zoning: North-South Gen-Tie Route Option 1 15

7b Existing Zoning: North-South Gen-Tie Route Option 2 16

7c Existing Zoning: North-South Gen-Tie Route Option 3 17

8a Existing Zoning: East-West Gen-Tie Route..... 18

8b Existing Zoning: East-West Gen-Tie Route Options A & B..... 19

Tables

1 APNs for Solar Facility on Edwards AFB Property..... 5

2 Average High and Low temperature and Precipitation by Month..... 6

3 Solar Facility - Surrounding Land Use Designations 7

4 APNs North-South Gen-tie Route Options 21

5 APNs for East/West Gen-tie Route Options 22

6 Proposed Gen-Tie Route Options Summary 22

7 Proposed Discretionary Actions..... 34



1.0 Project Description

The proposed project involves the lease of land from Edwards Air Force Base (AFB) to Edwards AFB Solar, LLC (Developer) for the construction, operation, and maintenance of a solar photovoltaic (PV) energy-generating facility (solar facility) of up to 600-megawatts (MW); including a substation and operations and maintenance facility, on non-excess land at Edwards AFB. The proposed project also includes development of an associated 230-kilovolt (kV) generation interconnection transmission line (gen-tie line) with up to two circuits and associated fiber optic communications.

The Project consists of two main components: 1) a solar facility site located on land that is subject to the jurisdiction of the U.S. Air Force (Air Force); and 2) generation interconnection lines (gen-tie lines) located on land that is subject to the jurisdiction of Kern County (County) and the Air Force; therefore, Kern County and the Air Force will direct the preparation of a joint Environmental Impact Statement (EIS) and Environmental Impact Report (EIR) for the Edwards AFB Solar Project (herein identified as the Project).

In response to a Request for Qualifications (RFQ) issued by the Air Force for solar development through the Enhanced Use Lease (EUL) program, the Developer submitted a proposal to Edwards AFB to construct, operate, and maintain a utility-scale solar PV energy-generating facility. Edwards AFB property would be developed under the terms of a site development lease on up to 3,500-acres of non-excess real property under the control of the Secretary of the Air Force. The Developer filed an application with the County for a franchise agreement for routing a generation tie (gen-tie) transmission line from the proposed solar facility to the Southern California Edison (SCE) Windhub Substation and/or the privately owned Westwind Substation.

In compliance with the National Environmental Policy Act (NEPA) as implemented by the Air Force's Environmental Impact Analysis Process (EIAP) regulation, 32 CFR §989, and the California Environmental Quality Act (CEQA), the Air Force and County are preparing an EIS/EIR to inform the public and other interested entities of the Project. This EIS/EIR process is intended to provide opportunities for public involvement, and to assess the project impacts to the human and natural environment. The information contained in this Draft EIS/EIR will be considered by the Air Force in its decisionmaking on whether and how to proceed with the proposed Project. Additionally, the County will consider the information in its determination of whether to authorize the franchise agreement. Finally, this documented information may also be considered by other governmental or regulatory agencies associated with any required consultations or permits for the Project.

1.1 Project Location

The proposed solar facility is located within Sections 13, 14, 15, 22, 23, 24, and 27 T10N/R12W and Sections 15, 16, 17, 18, 19 and 20 T10N/R11W SBB&M on Edwards AFB property, approximately six miles northeast of the community of Rosamond and five miles south of Mojave, in southeastern Kern County, California (Figures 1 and 2). The proposed gen-tie line route options are located in Sections 1, 3, 10, 12, and 15 T10N/R12W; Section 7 T10N/R11W; Sections 34, 35, 36 T11N/R12W; Sections 19, 20, 21, 26, 27, 28, 29, 30, 34, 35 and 36 T11N/R12W; and Sections 16, 17, 20, 21, 25, 26, 27, and 28 T11N/R13W SBB&M. The proposed gen-tie line would run approximately 14 miles northwest from the solar facility to the SCE Windhub Substation located northwest of the solar facility, south of Oak Creek Road as well as the privately-owned Westwind substation, north of Oak Creek Road (Figure 2). The alignment options currently being considered for the gen-tie line are referred to as the "route options."

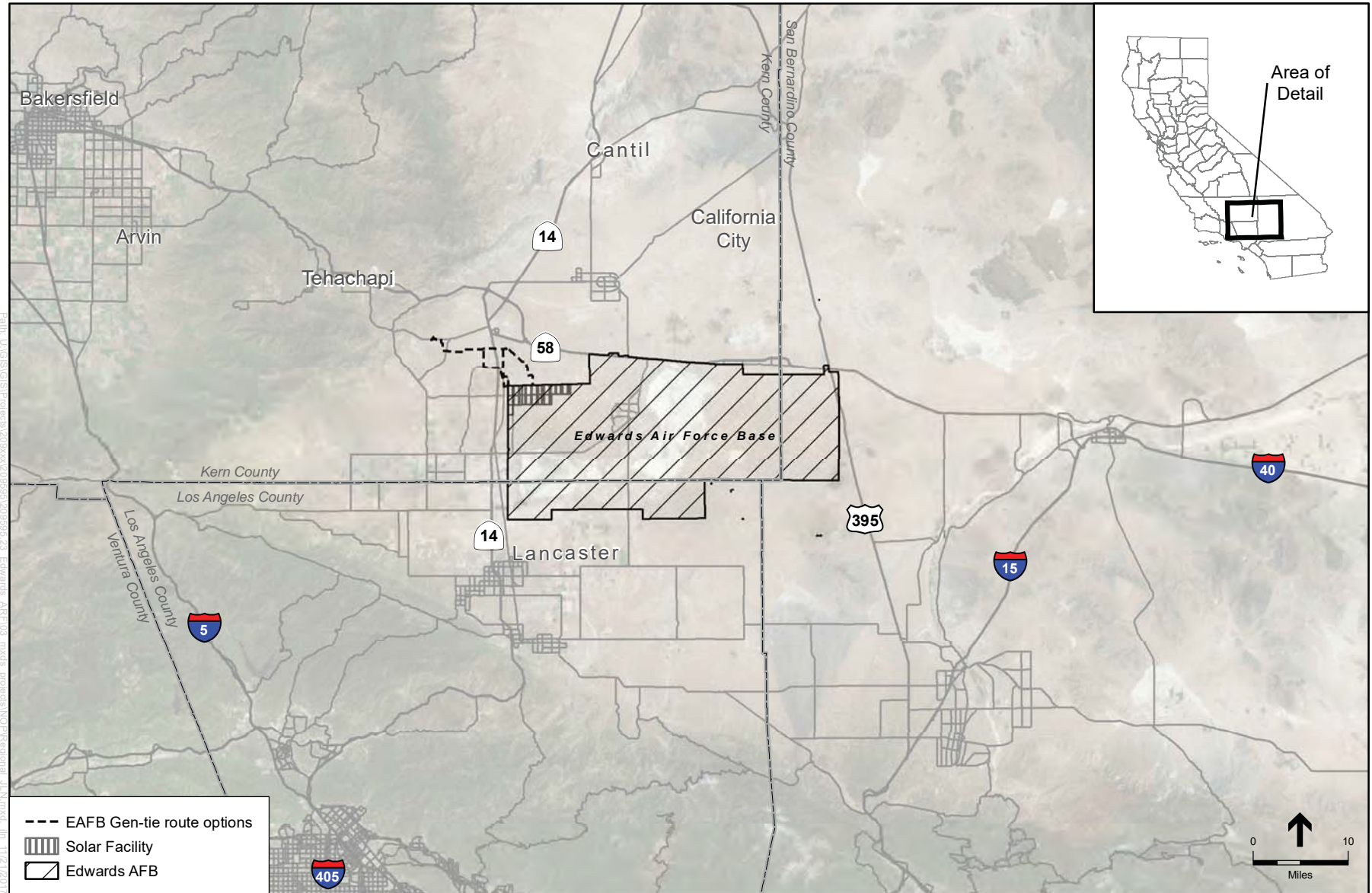


Figure 1: PROJECT VICINITY



EDWARDS AFB SOLAR PROJECT

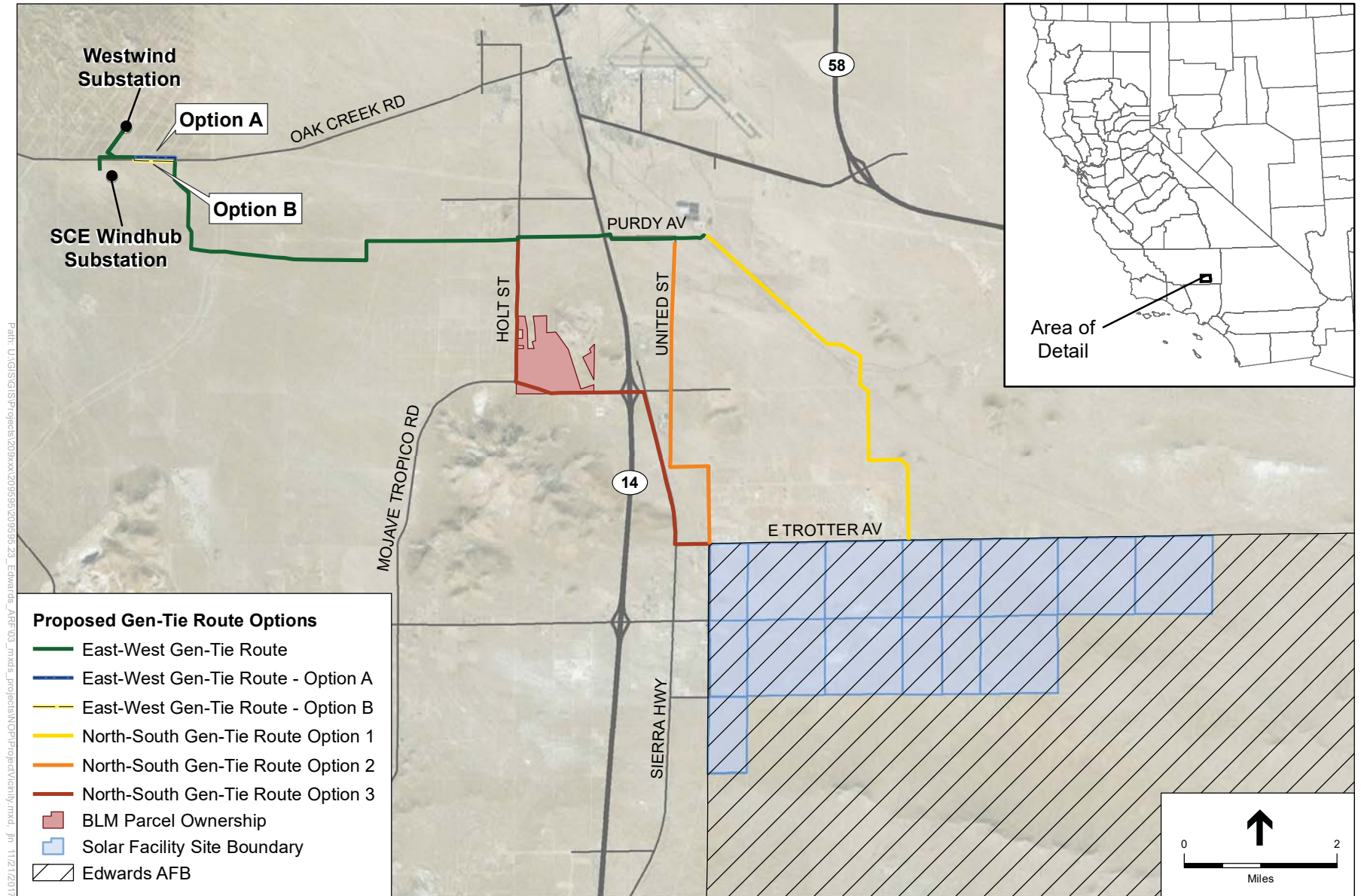


Figure 2: SITE BOUNDARIES



Edwards AFB consists of approximately 308,000 acres of largely undeveloped or semi-improved land used predominantly for aircraft test ranges and maintained and unmaintained landing sites (i.e., dry lake beds). An approximately 6,000-acre area located in the northwest corner of Edwards AFB has been identified as the potential location for the solar facility (herein referred to as the Project site). The Project site is approximately five miles north of Rosamond Dry Lake and 10 miles west of Rogers Dry Lake, located south of Trotter Avenue and east of Lone Butte Road (Figure 2). The final proposed footprint of the solar facility within the Project site has not yet been defined but is expected to be 3,500 acres or less. For the purpose of analysis, all 6,000 potential acres of the Project site will be studied and the Project would be sited to minimize environmental impacts. The Project site was defined based on a number of environmental constraints (e.g., land use and air space restrictions, slope, aspect, and Edwards AFB's historical knowledge of environmental constraints such as biological and cultural resources).

The solar project facility and gen-tie routes would be served by the Kern County Sheriff's Department for law enforcement and public safety. The closest Sheriff station is the Mojave substation, located at 1771 State Highway 58, approximately 4.5 miles north of the solar facility site. The Kern County Fire Department (KCFD) would provide fire protection and emergency medical and rescue services for the solar facility and gen-tie project areas. The closest KCFD fire station is Station #14 at 1953 State Highway 58, located approximately 5.7 miles north of the solar project site in the community of Mojave, CA.

The closest airport to the project site is the Mojave Airport which is 2.75 miles north of the gen-tie routes and approximately 5-miles from the solar facility site.

The project solar facility site and gen-tie lines are not located within an area that is designated by the California Department of Conservation (CDC) as Prime Farmland, Farmland of Statewide Importance or Unique Farmland. No lands within the solar facility boundary are subject to a Williamson Act Land Use Contract.

The proposed 230 kV gen-tie line would run across publicly and privately-owned property in unincorporated Kern County. The current options for the potential route are shown in Figure 2. The main constraint for identifying the alignment of the gen-tie line is securing access easements from public and private entities.

1.2 Environmental Setting

1.2.1 Solar Facility

The Project site is located on an undeveloped alluvial plain associated with the southeastern slope of the Tehachapi Mountains. The Project site is relatively flat, with elevations ranging from approximately 2,545 feet above mean sea level (amsl) in the northwest sloping gradually to approximately 2,480 feet amsl to the east. Ridges, rocky outcrops, and other substantial topographic features are generally absent within the Project site. Assessor's parcel numbers (APNs) for the land on which the solar facility would be implemented are listed in Table 1.



TABLE 1: APNS FOR SOLAR FACILITY ON EDWARDS AFB PROPERTY

APN	Acres (approx.)	Zoning 1	General Plan 2
244-250-02	326	A-1	1.1
244-250-03	654	A-1	1.1
244-250-04	652	A-1	1.1
430-011-01	324	A-1	1.1
430-011-02	651	A-1	1.1
430-011-03	652	A-1	1.1
430-011-05	647	A-1	1.1
430-011-06	323	A-1	1.1
431-010-03	324	A-1	1.1
244-250-01	335	A-1	1.1

Notes:

1. A-1 (Limited Agriculture)
2. 1.1 (State or Federal Lands)

Vegetation

The Project site is located in the western Mojave Desert, within the Mojave Desert Ecoregion Section (322a) as mapped by the U.S. Department of Agriculture. Vegetation communities within the site are generally characteristic of Mojave Desert scrub habitats and include creosote bush (*Larrea tridentata*), shadscale (*Atriplex confertifolia*), spinescale (*Atriplex spinifera*), burrobush (*Ambrosia dumosa*), and four-wing saltbush (*Atriplex canescens*). Joshua trees (*Yucca brevifolia*) are common throughout much of the Project site, and a Joshua tree woodland overstory covers some of these desert scrub communities in the southeastern portion of the site. Limited unvegetated areas showing signs of periodic ponding are present in the interior of the site. Historic biological surveys of the Project site have detected rare plant species, including the alkali mariposa lily (*Calochortus striatus*) and Mojave spineflower (*Chorizanthe spinosa*).

The project solar site is not located within the boundaries of an adopted Habitat Conservation Plan (HCP). Although it is included in the boundaries of the Development Focus Area of the Desert Renewable Energy Conservation Plan (DRECP) the DRECP, at this time, only applies to federal public lands managed by the BLM and is not an adopted HCP or NCCP. The proposed project is not located on land administered by the BLM and, therefore, is not subject to the (West Mojave Plan) WMP or the DRECP.

Hydrology

As described by the California Interagency Watershed Mapping Committee (CalWater), the Project site is located in the southwestern portion of the South Lahontan Hydrologic Region. This Hydrologic Region abuts the eastern slope of the Sierra Nevada, and spring runoff from melting snowpack provides the majority of the region’s surface water. The South Lahontan Hydrologic Region encompasses a total of 26,732 square miles (16.9 percent of California), and occupies portions of Mono, Inyo, Kern, San Bernardino, and Los Angeles Counties. Mean annual rainfall in the region is 7.8 inches. In the vicinity of the Project site, topographic relief is low and no major watercourses are present. The local hydrology is characterized by ephemeral stream channels and washes conveying surface runoff from northwest to southeast, generally from the foothills of the Tehachapi Mountains toward the Rosamond and Rogers dry lakes on Edwards AFB.



Hydrologic patterns within the Project site are muted, due to the low relief and arid nature of the region. Several ephemeral drainage areas occur within the site, but they are generally poorly defined with sandy substrate and vegetation similar to surrounding areas. The Project site is within an enclosed hydrologic subbasin, where surface flows are eventually lost to percolation and evaporation. The Project site’s ephemeral channels are not hydrologically connected to any navigable body of water.

TABLE 2: AVERAGE HIGH AND LOW TEMPERATURE AND PRECIPITATION BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
High	57	60	66	71	80	89	96	96	88	78	65	56
Low	33	37	41	46	56	64	70	67	61	50	40	33
Precipitation (in)	1.18	1.54	0.98	0.24	0.12	0.04	0.31	0.28	0.16	0.35	0.59	0.91

Source: U.S Climate data, 2017

The project solar site is located within an area of an undetermined flood zone (Zone D), however, mapped 100-year flood zones (Zone A) adjacent to the project site and a preliminary flood zone map based on best information available have suggested that the project site likely contains 100-year flood zones. Therefore, it is reasonable to assume the project site is within the 100-year flood zone; therefore, flooding is part of the baseline condition for the area. There are no identified state-designated Alquist-Priolo Earthquake Fault Zones on the project solar site. The nearest active fault is the Garlock fault zone, which is located approximately 12 miles northwest of the solar facility site.

Surrounding Land Uses

The lands abutting the Project site to the south and east are undeveloped and lie within the perimeter of Edwards AFB. To the north, the site borders approximately 30 existing residences along Trotter Avenue. These rural residences occupy lands classified for Limited Agriculture (A-1) and Estate (E) uses by the Kern County Zoning Ordinance. General Plan land use designations for lands north of the Project site are dictated by the West Edwards Road Settlement Specific Plan and the Kern County General Plan. To the west, the Project site borders scattered single-family homes and industrial uses. General Plan land use designations for lands west of the site are dictated by the Actis Interim Rural Community Plan and the Kern County General Plan. The General Plan land use designations and zoning districts abutting the Project site are summarized in Table 3 and shown on Figures 3 through 8.



TABLE 3: SOLAR FACILITY - SURROUNDING LAND USE DESIGNATIONS

Direction from Project Site	Summary of General Plan Land Use Designations	Summary of Surrounding Zoning Classifications
South/East	Map Code 1.1 (State and Federal Land) - Applied to all property under the ownership and control of the various State and federal agencies operating in Kern County (military, U.S. Forest Service, Bureau of Land Management, Department of Energy, etc.).	Lands to the south and east of the site are within Edwards AFB, and are not subject to Kern County zoning.
North	<p>Map Code 4.1 (Accepted County Plan Areas [Mojave]) - The Mojave Priority Area Map identifies the lands immediately north of the site as the West Edwards Road Settlement.</p> <p>Map Code 8.5 (Resource Management) - Primarily open space lands containing important resource values, such as wildlife habitat, scenic values, or watershed recharge areas. These areas may be characterized by physical constraints, or may constitute an important watershed recharge area or wildlife habitat or may have value as a buffer between resource areas and urban areas. Other lands with this resource attribute are undeveloped, non-urban areas that do not warrant additional planning within the foreseeable future because of current population (or anticipated increase), marginal physical development, or no subdivision activity.</p> <p>Map Code 6.2 (General Commercial) - Retail and service facilities of less intensity than regional centers providing a broad range of goods and services which serve the day-to-day needs of nearby residents.</p> <p>Map Code 5.6 (Residential - Minimum 2.5 Gross Acres/Unit) - This constitutes a single-family designation with rural service needs in the valley and desert regions, while in the mountain region residential uses of this density will require urban service provision</p> <p>Map Code 5.7 (5.0 Gross Acres/Dwelling Unit Maximum) - Designated in the outlying, less densely settled areas, often characterized with physical constraints and not requiring connections to public water and sewer infrastructure.</p> <p>Map Code 8.5/2.5 (Resource Management/Flood Hazard) – See above for summary of Map Code 8.5. Map Code 2.5 (Flood Hazard) – Special Flood Hazard Areas (Zone A), as identified on the Flood Insurance Rate Maps (FIRM) of the Federal Emergency Management Agency (FEMA) and supplemented by floodplain delineating maps that have been approved by the Kern County Engineering and Survey Services Department.</p>	<p>Limited Agriculture (A-1) - Designates areas suitable for a combination of estate-type residential development, agricultural uses, and other compatible uses. Final map residential subdivisions are not allowed in the A-1 District.</p> <p>Estate (E 10) - Designates areas suitable for larger lot residential living environments. Uses are limited to those typical of and compatible with quiet residential neighborhoods. The minimum lot size shall be ten (10) acres.</p> <p>Estate (E 2 1/2) - Designates areas suitable for larger lot residential living environments. Uses are limited to those typical of and compatible with quiet residential neighborhoods. The minimum lot size shall be two and one-half (2 1/2) acres.</p> <p>Residential Suburban (RS) - This combining district expands the number and type of permitted domestic agricultural uses within rural residential areas. The uses allowed and regulations established by the RS District are in addition to regulations of the base district with which the RS District is combined.</p> <p>Mobile Home (MH) - This combining district provides for the installation of mobile homes with or without foundations in agricultural, resource-related, and residential zoned areas. The uses allowed and regulations established by the MH District are normally in addition to the regulations of the base district with which the MH District is combined.</p> <p>General Commercial (C-2) - Designates areas for the widest range of retail commercial activities, including regional shopping centers and heavy commercial uses. The C-2 District may also be combined with the Cluster (CL) Combining District to achieve innovative, creative office or commercial development.</p> <p>Precise Development Combining (PD) - Designates areas with unique site characteristics or environmental conditions or areas surrounded by sensitive land uses to ensure that development in such areas is compatible with such constraints.</p>
West	<p>Map Code 4.2 (Interim Rural Community Plan (Actis)) - The Actis Interim Rural Community Plan map designates the area immediately west of the site as Map Code 7.2: Service Industrial.</p> <p>Map Code 7.2 (Service Industrial) - Commercial or industrial activities which involve outdoor storage or use of heavy equipment. Such uses produce significant air or noise pollution and are visually obtrusive. Uses shall include, but are not limited to, the following: Automobile and truck parking, storage and repair shops, freighting or trucking yards, bottling plants, breweries, welding shops, cleaning plants, and other manufacturing and processing activities.</p> <p>Map Code 8.5 (Resource Management) – See above.</p>	<p>Medium Industrial (M-2) - Designates areas for general manufacturing, processing, and assembly activities. Uses may not produce fumes, odor, dust, smoke, gas, or vibrations extending beyond zoning district boundaries.</p> <p>Floodplain Primary (FPP) - Protects public health and safety and minimizes property damage by designating areas that are subject to flooding with high velocities or depths and by establishing reasonable restrictions on land use in such areas. Uses in the FPP District are limited to those low intensity uses not involving buildings, structures, and other activities that might adversely affect or be adversely affected by flow of water in the floodway.</p> <p>Precise Development (PD) – See above.</p>



EDWARDS AFB SOLAR PROJECT



Figure 3: EXISTING GENERAL PLAN: SOLAR GENERATION FACILITY

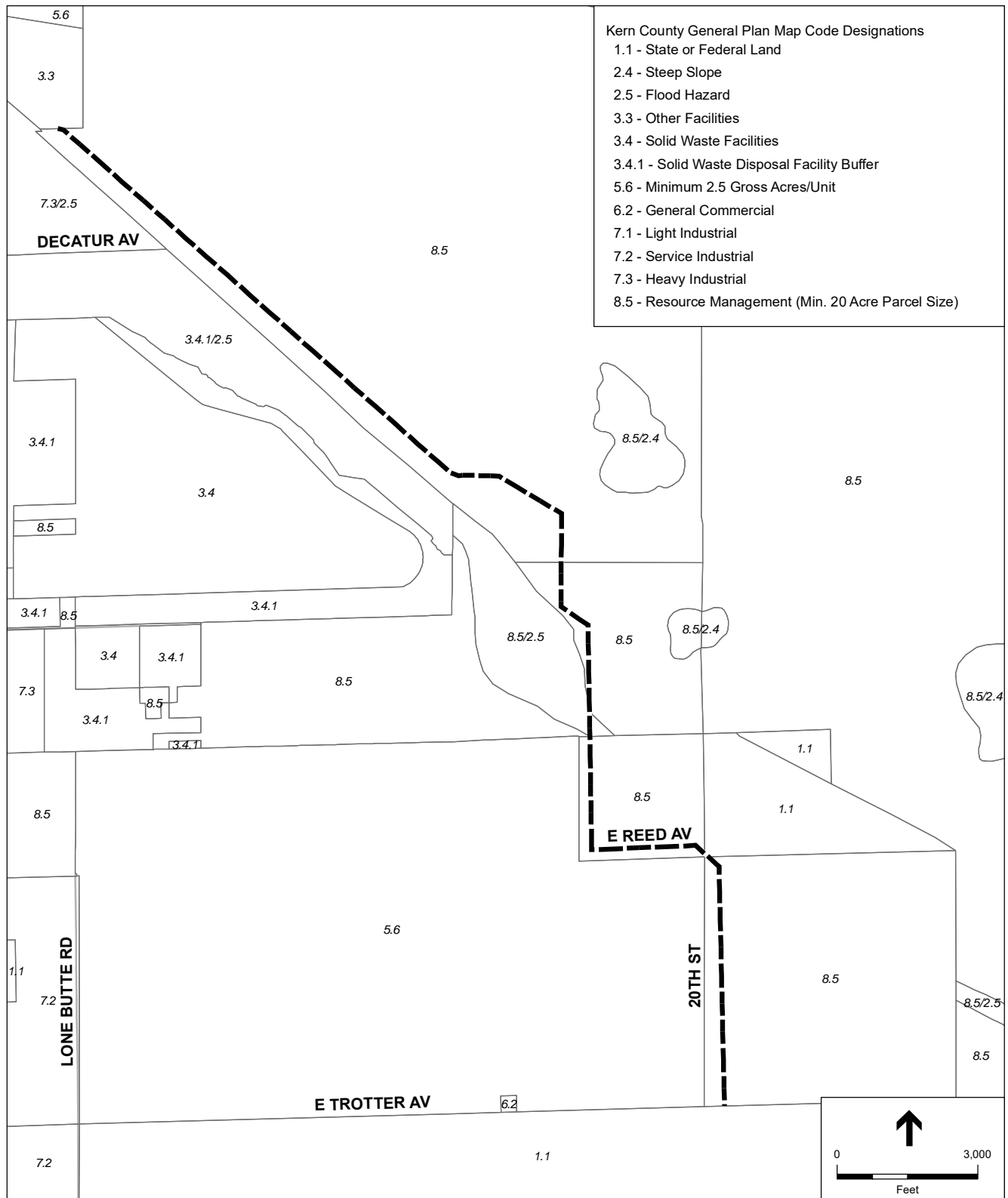


Figure 4a: EXISTING GENERAL PLAN: NORTH-SOUTH GEN-TIE ROUTE OPTION 1

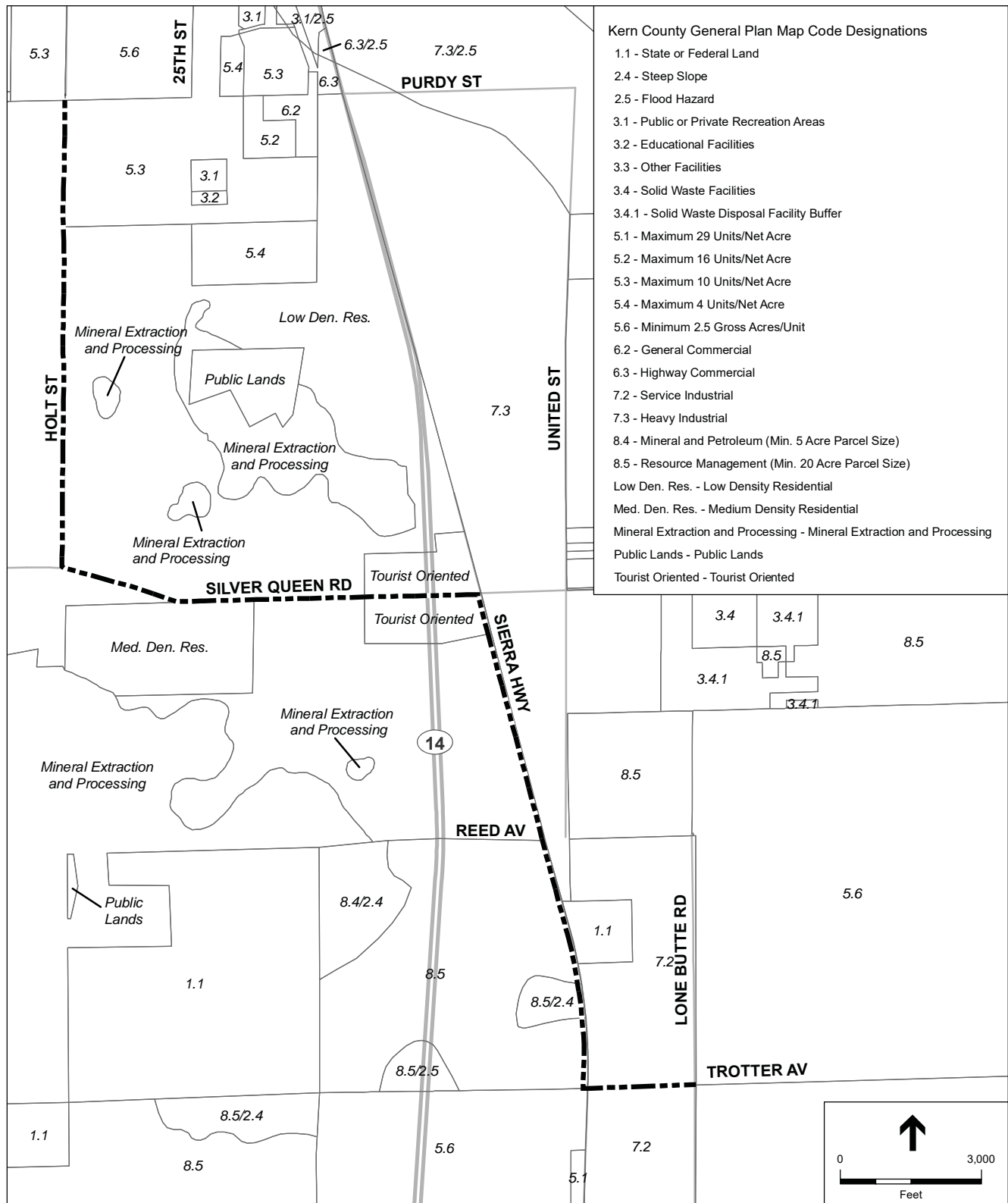


Figure 4c EXISTING GENERAL PLAN: NORTH-SOUTH GEN-TIE ROUTE OPTION 3

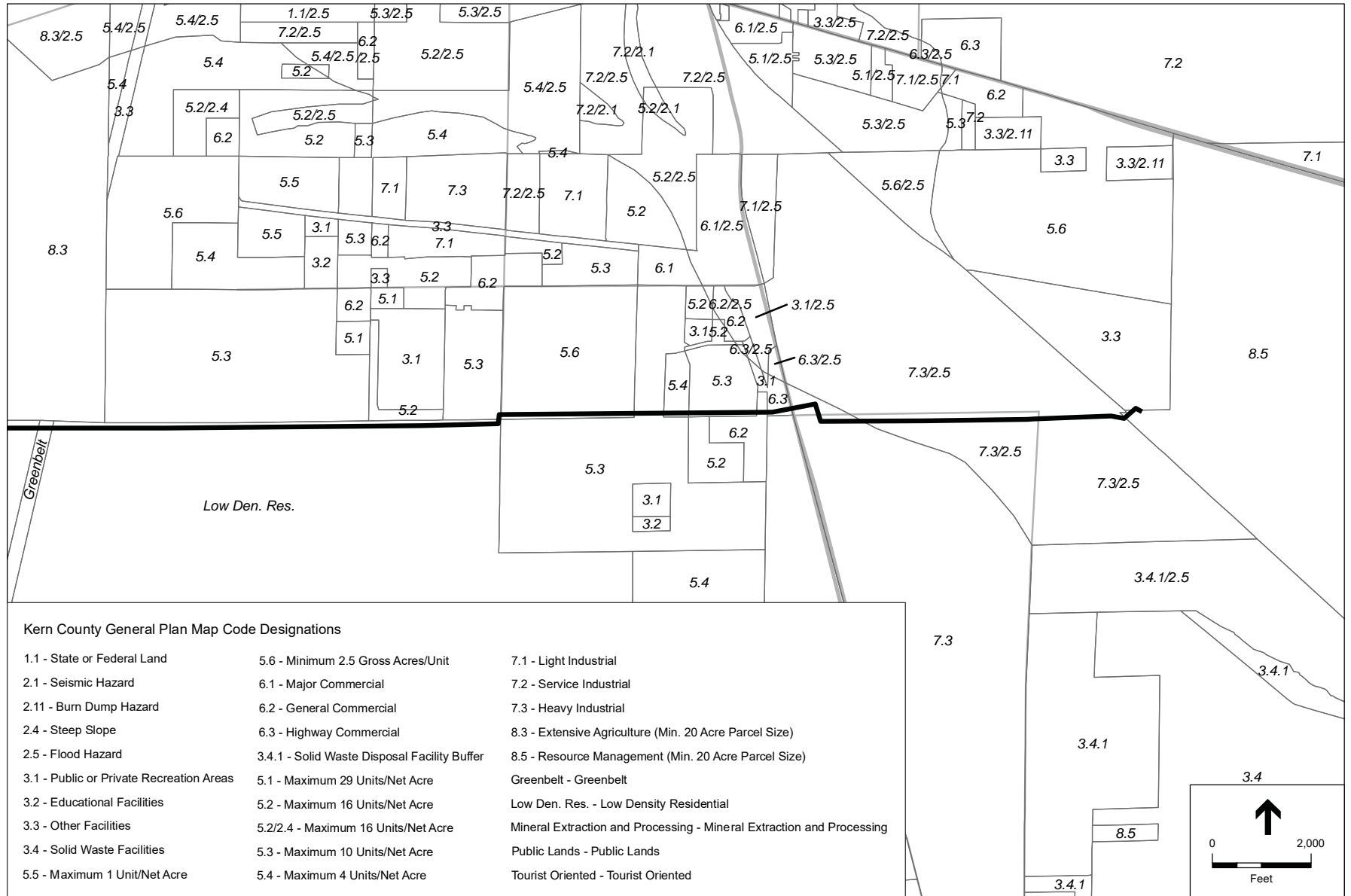


Figure 5a: EXISTING GENERAL PLAN: EAST WEST GEN-TIE ROUTE OPTION

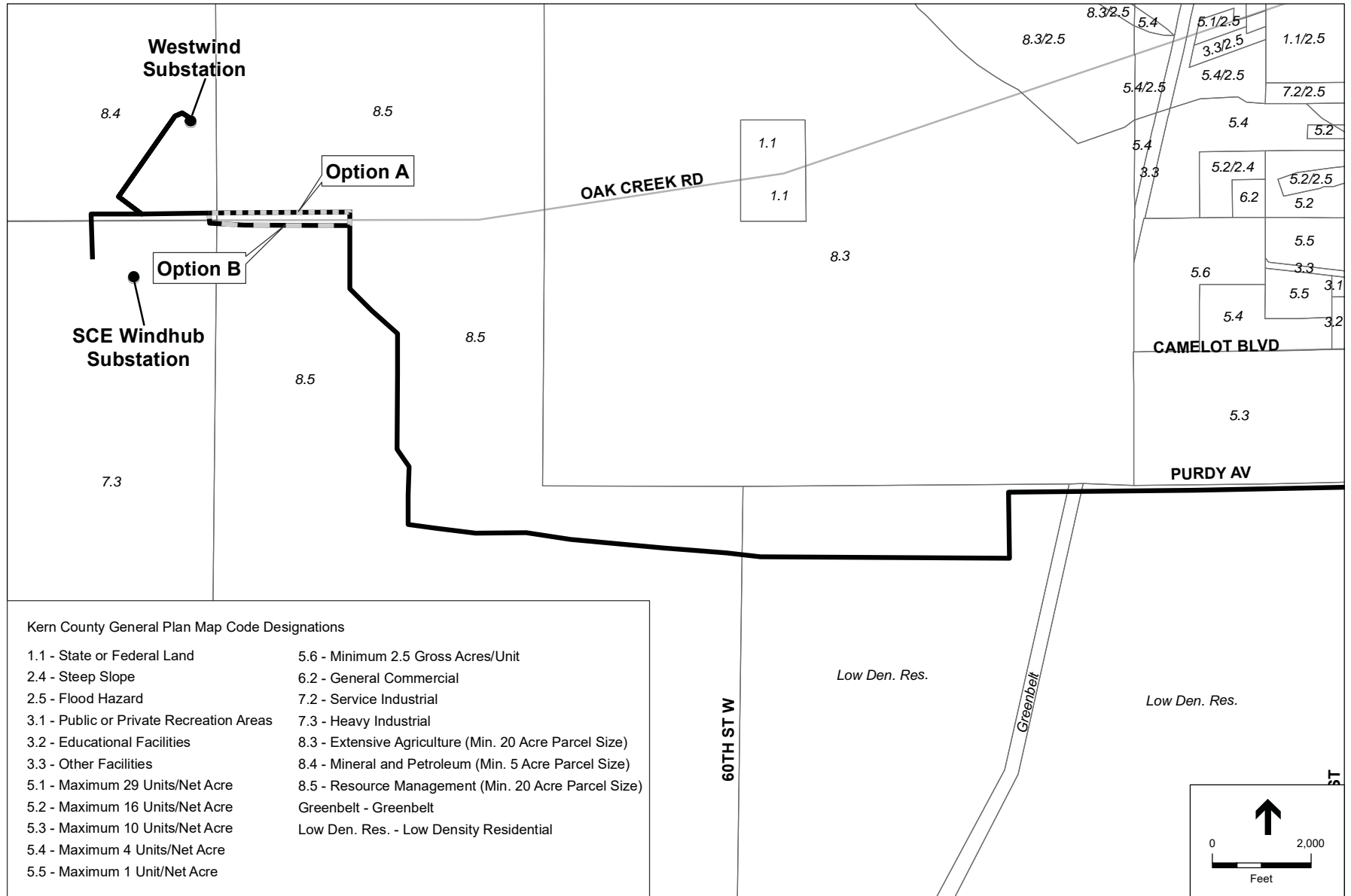


Figure 5b: EXISTING GENERAL PLAN: EAST WEST GEN-TIE ROUTE OPTIONS A & B

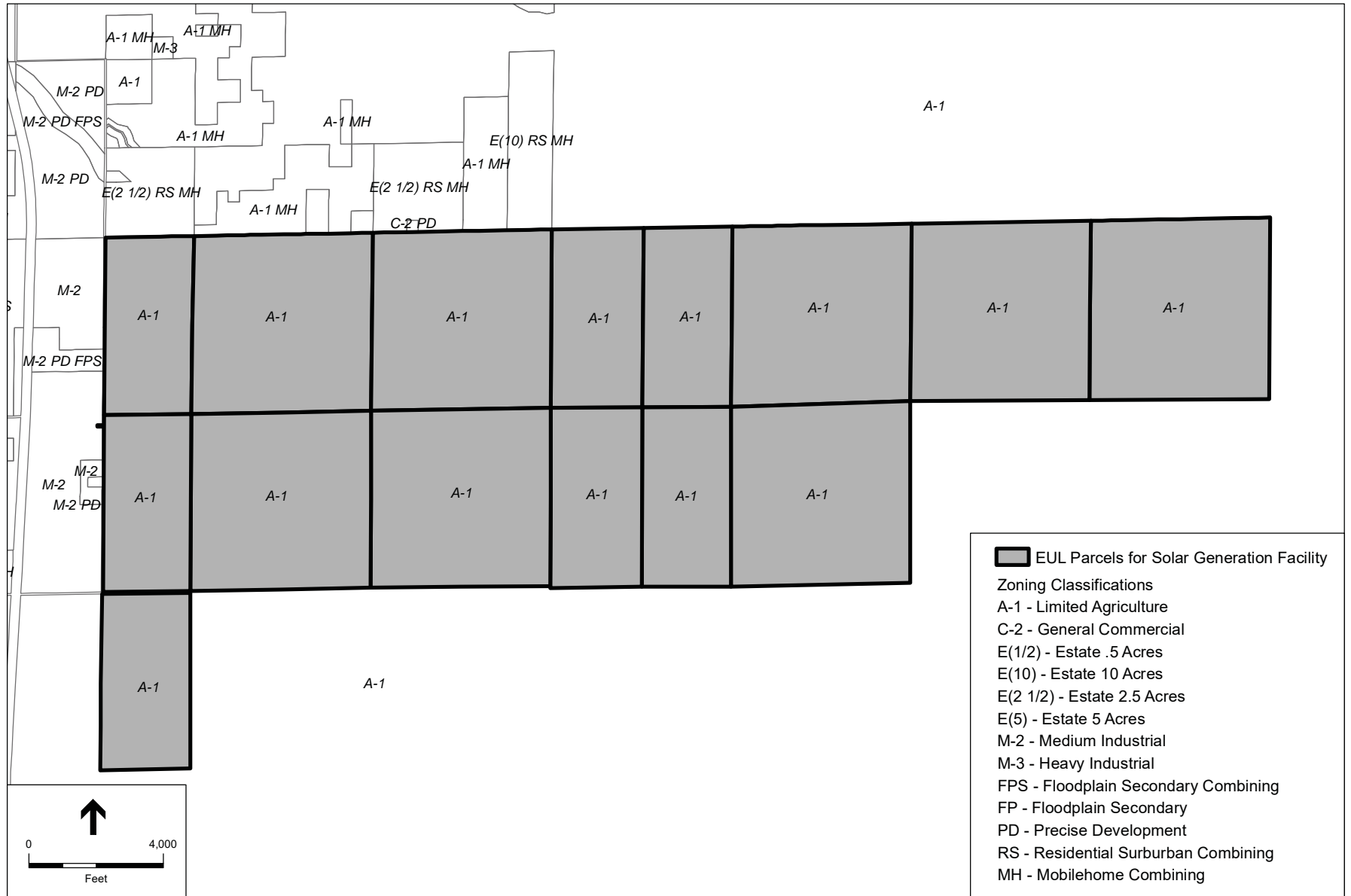


Figure 6: EXISTING ZONING: SOLAR GENERATION FACILITY

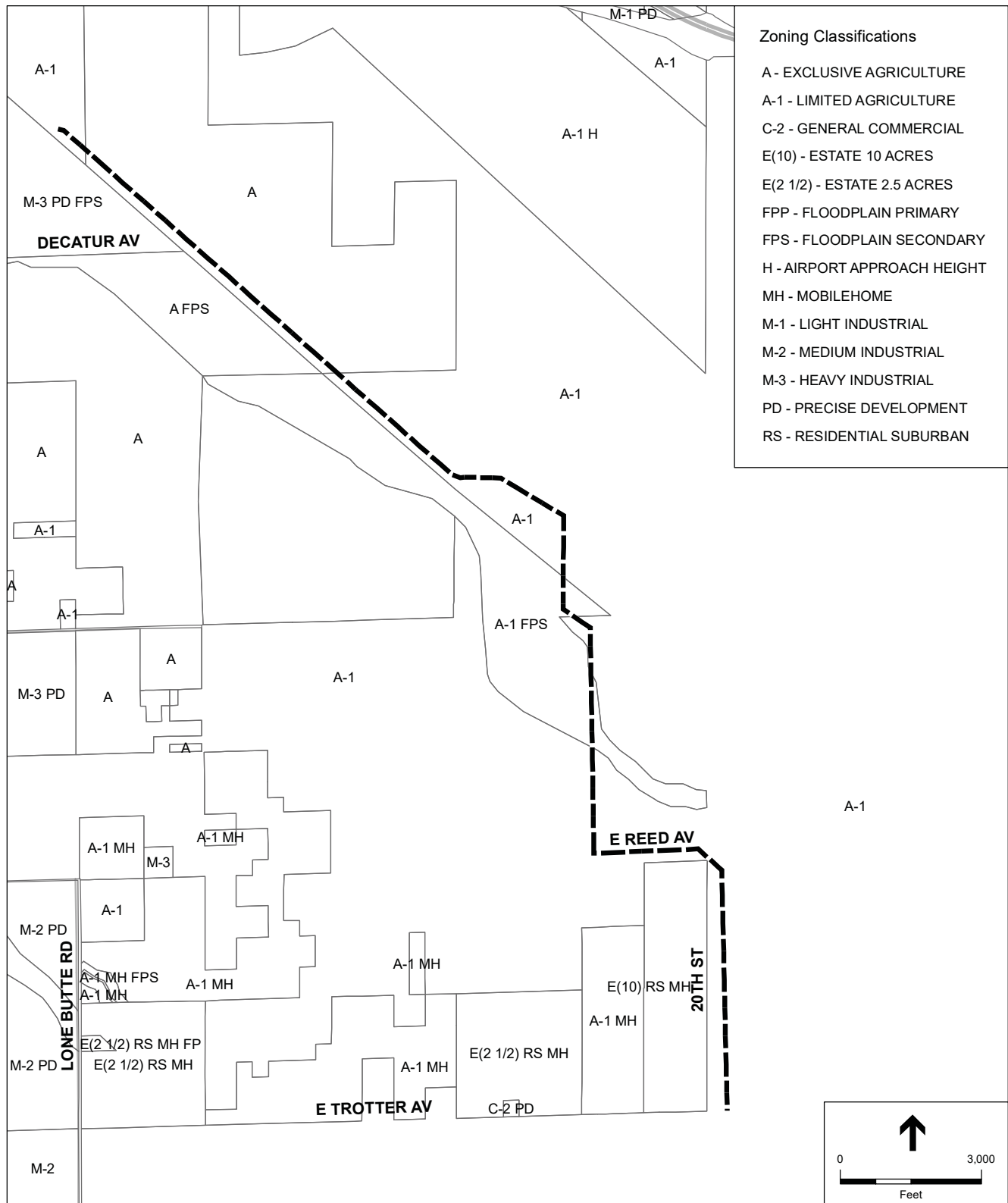


Figure 7a: EXISTING ZONING: NORTH-SOUTH GEN-TIE ROUTE OPTION 1

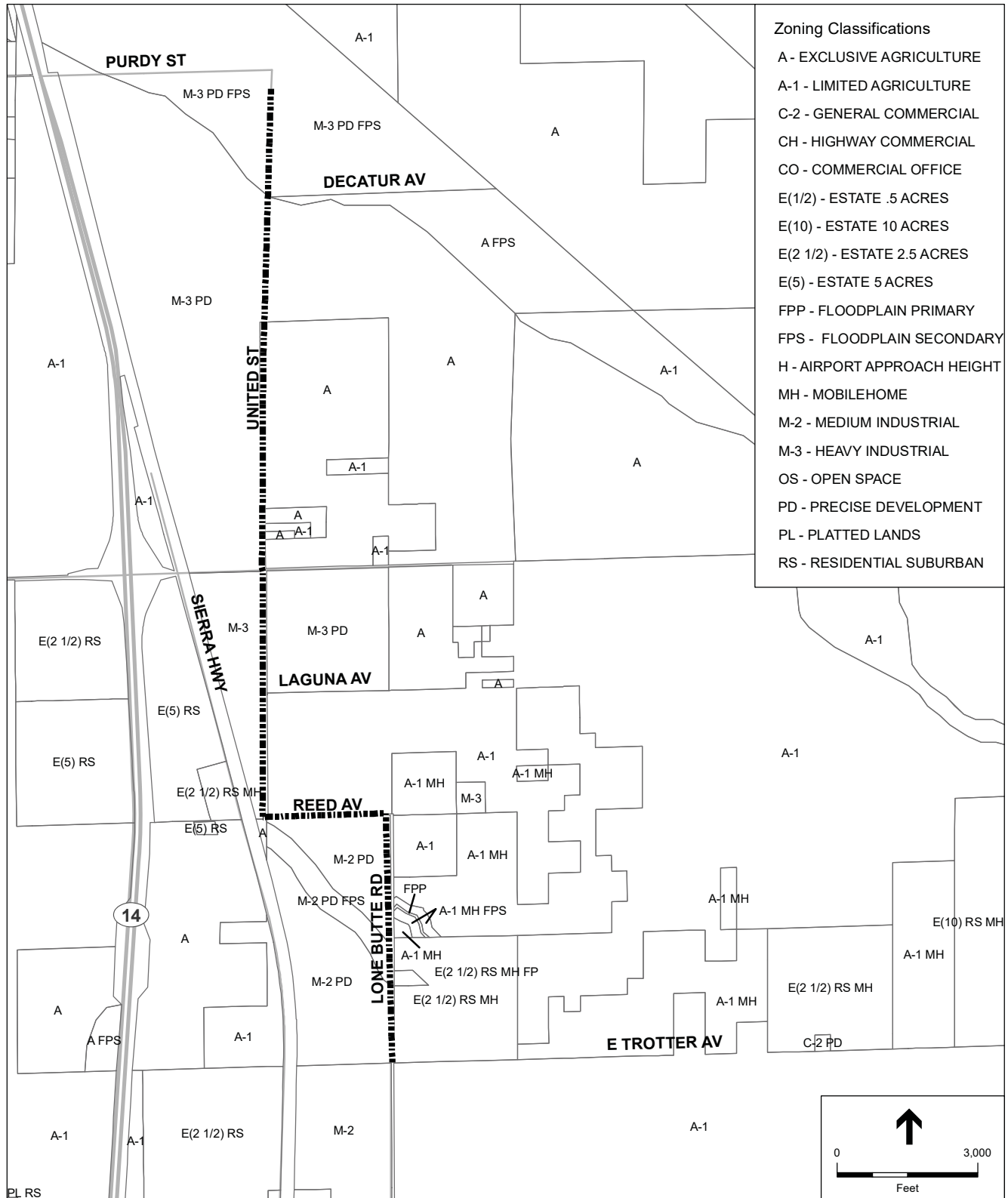


Figure 7b EXISTING ZONING: NORTH-SOUTH GEN-TIE ROUTE OPTION 2

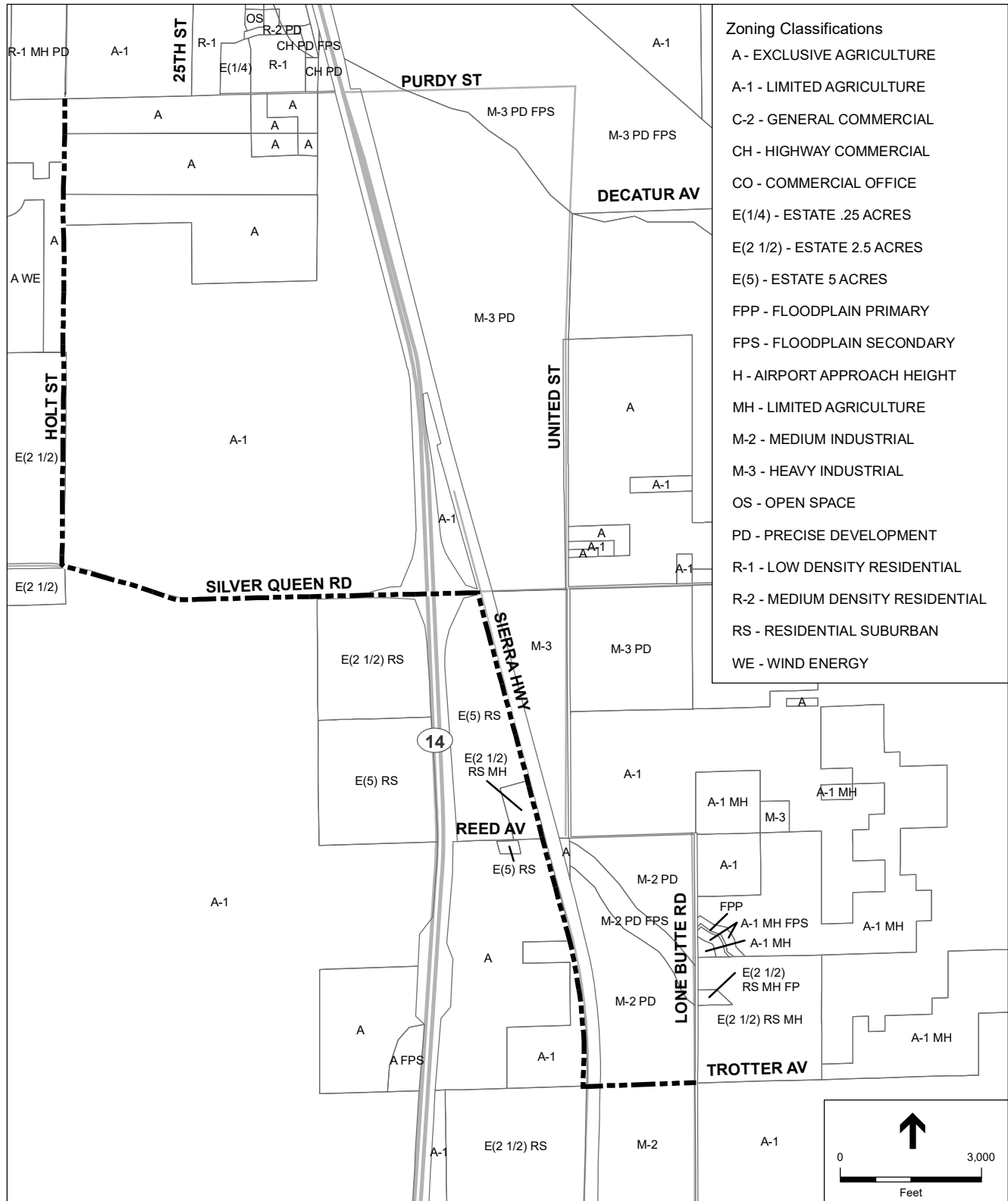


Figure 7c EXISTING ZONING: NORTH-SOUTH GEN-TIE ROUTE OPTION 3



EDWARDS AFB SOLAR PROJECT

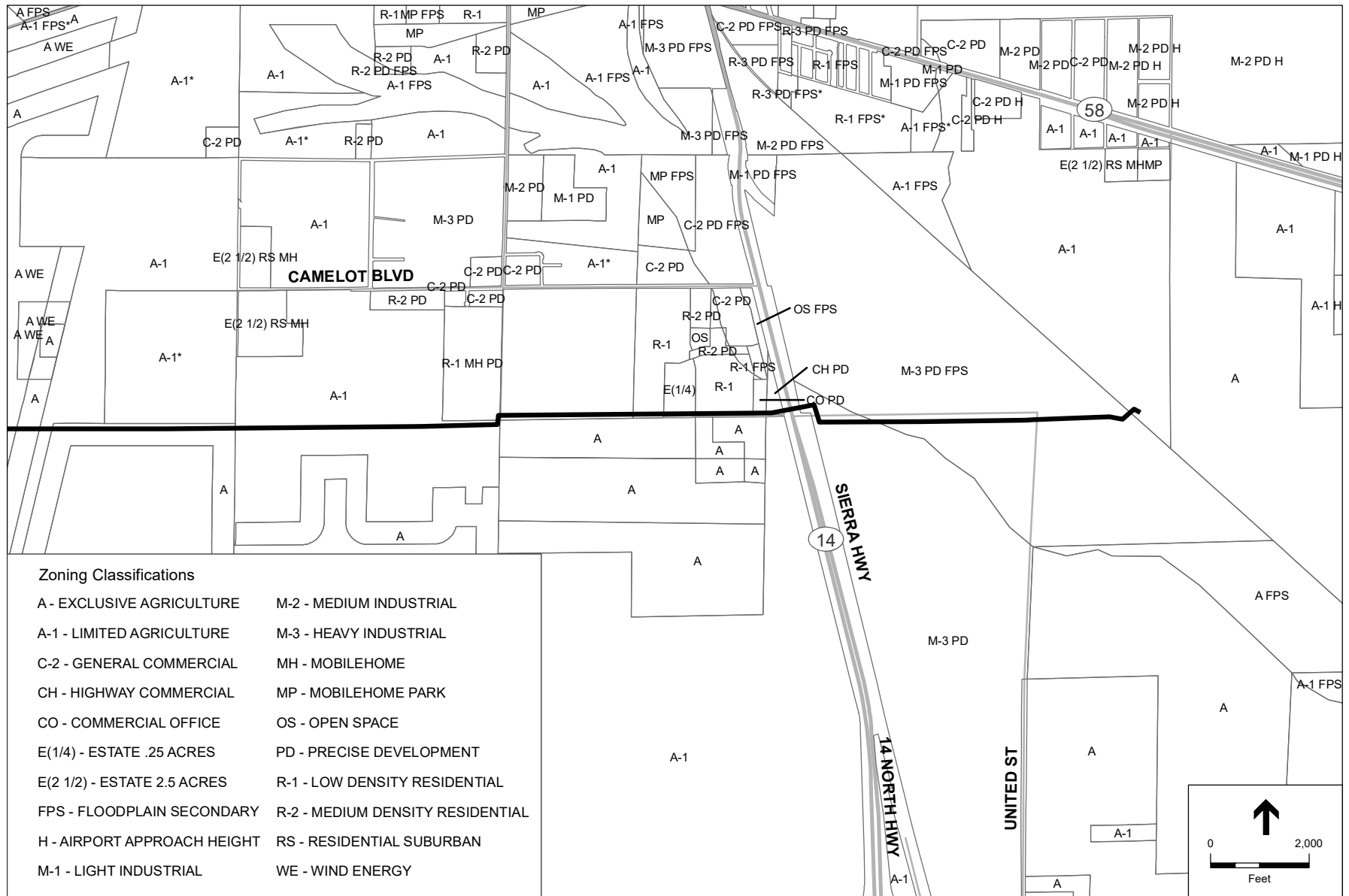


Figure 8a: EXISTING ZONING: EAST-WEST GEN-TIE ROUTE OPTION

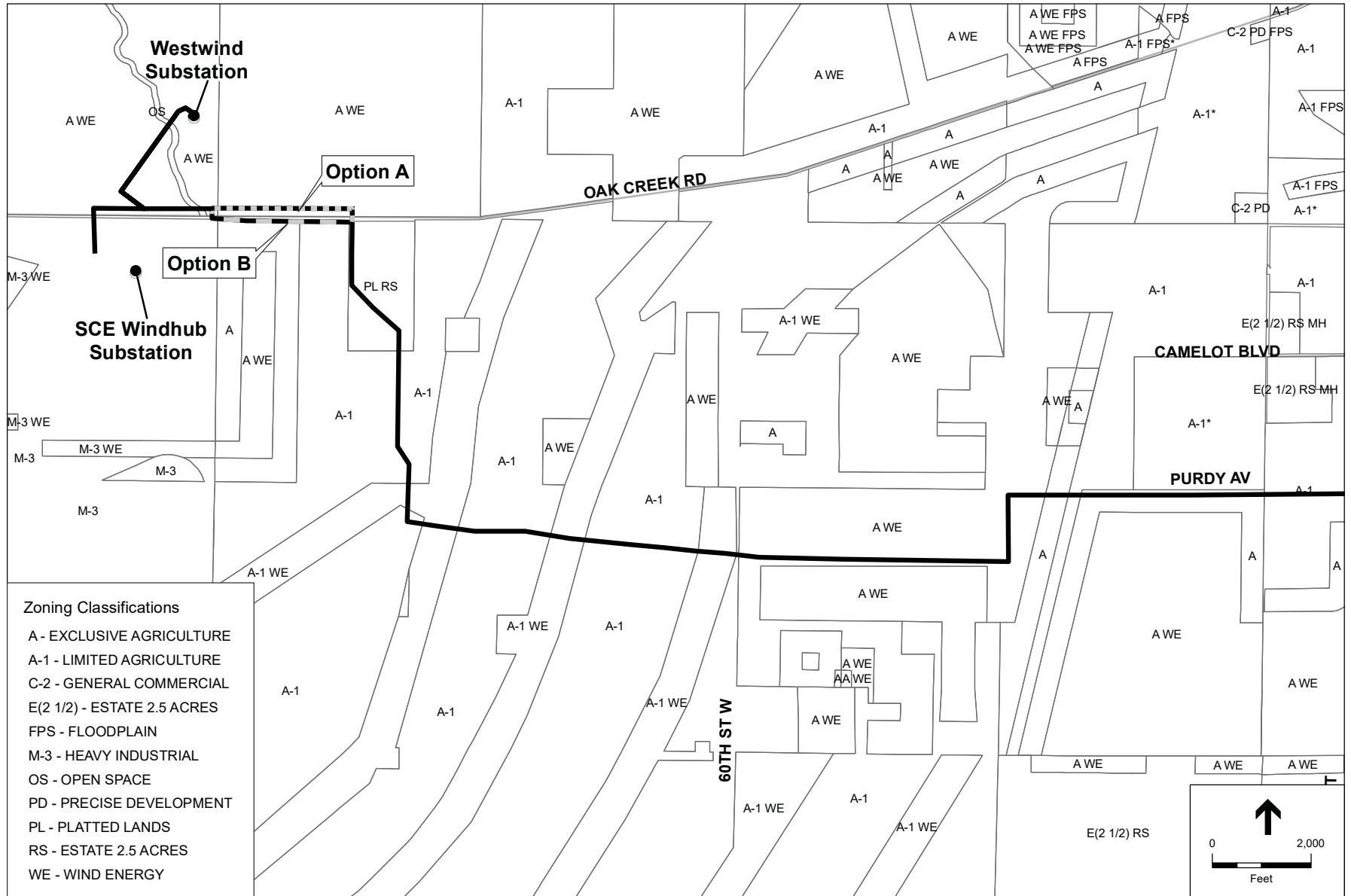


Figure 8b: EXISTING ZONING: EAST-WEST GEN-TIE ROUTE OPTIONS A & B



1.2.2 Gen-Tie Line

A 230 kV gen-tie would connect the solar facility site with the existing and privately owned electrical substation, the Westwind Substation, in the first phase of the Project, and to the SCE Windhub Substation in subsequent phases of the Project. The proposed gen-tie may be a shared facility with other solar projects in the future. In general, the gen-tie route can be broken down in to two categories based on the direction of the corridor—a north–south connection and an east–west connection. There are three options for the north–south gen-tie connection and the proposed Project would include only one of these three route options. There are two options for the east–west gen-tie connection and the proposed Project would include only one of these two east–west route options (Figure 2). The three options for the north–south gen-tie routes are described first and the two options for the east–west gen-tie routes are described second. For purposes of this analysis, all alignment options are assessed for their potential environmental effects.

There are no identified state-designated Alquist-Priolo Earthquake Fault Zones within the proposed gen-tie routes. The nearest active fault is the Garlock fault zone, which is located approximately 3 miles northwest of the east/west proposed gen-tie route. Portions of the proposed gen-tie routes are located in Agricultural Preserve 24 (North/South-United Street) and Agricultural Preserve 23 (East/West-Purdy Avenue), however, removal from the Agricultural Preserves is not required. The gen-tie route parcels are not subject to any Williamson Act contracts.

The proposed gen-tie routes are located within the Mojave Airport land use codes (E1-North/South-United Street), (E-1 and D-East/West Purdy Avenue). Projects within the Mojave Airport Land Use Codes may require special conditions of approval to minimize flight hazards.

North-South Gen-Tie Routes

From the solar generation site to the approximate intersection of Purdy Avenue and United Street, there are two gen-tie route options and from the solar generation site to the intersection of Holt Street and Purdy Avenue, there is a third gen-tie route option. Figure 2 shows the approximate location of the three north–south gen-tie route options. These north–south route options include the following:

- North–South Gen-Tie Route Option 1: an approximately 5.6-mile-long gen-tie route on the east that generally runs from the AFB solar generation site north adjacent to 20th Street, west adjacent to East Reed Avenue, north adjacent to 15th Street, then generally follows the north side of the Burlington Northern Santa Fe (BNSF) Railway and finally runs west to the intersection of Purdy Avenue and the BNSF
- North–South Gen-tie Route Option 2: an approximately 4.5-mile-long gen-tie route that generally runs from the northwestern edge of the AFB solar generation site north on Lone Butte Road, west on West Reed Avenue, and north on United Street where it intersects with Purdy Avenue
- North–South Gen-tie Route Option 3: an approximately 6-mile-long gen-tie route that generally runs from the northwestern edge of the AFB solar generation site directly west to Sierra Highway and runs along Sierra Highway to the intersection with Silver Queen Road; the gen-tie route runs directly west along Silver Queen Road for 1.8 miles and heads north of Gold Town Road, which turns into Holt Street, where the route intersects with Purdy Avenue. A portion of this route crosses land that is administered by the Bureau of Land Management (BLM).

Assessor’s parcel numbers for the gen-tie line route options are listed in Table 4 and Table 5.



TABLE 4 APNS NORTH-SOUTH GEN-TIE ROUTE OPTIONS

Route Option 1	Route Option 2	Route Option 3			
428-030-02	428-030-14	427-120-40	237-114-05	427-030-02	429-170-33
244-233-01	428-030-21	427-151-04	237-331-26	427-030-38	429-170-34
428-030-28	428-030-22	427-151-08	246-010-01	427-130-02	429-181-01
428-030-31	428-030-23	427-151-12	246-010-09	427-130-11	429-181-09
428-030-32	428-030-24	427-152-01	246-010-16	427-140-01	429-181-10
428-174-16	428-030-29	427-152-02	246-102-03	427-140-03	429-181-15
428-174-30	428-181-01	427-152-04	246-102-08	427-140-04	429-181-23
428-174-31	428-181-19	427-152-06	246-102-11	427-282-04	429-181-27
428-174-32	428-181-20	427-152-18	246-102-24	427-282-05	429-181-28
428-200-02	428-181-21	429-110-06	246-141-02	427-282-12	429-170-04
428-201-02	428-181-23	429-110-07	246-141-04	427-282-13	429-170-05
428-201-15	428-181-24	429-110-08	246-141-16	427-292-04	429-170-09
428-201-16	429-010-02	429-110-09	246-141-19	427-292-05	429-170-11
429-030-02	429-010-04	430-030-16	246-141-20	427-292-12	429-170-12
429-042-05	429-010-06	430-030-17	246-142-02	427-292-13	429-170-13
429-152-19	429-101-30	427-151-01	246-142-04	427-302-04	429-170-15
428-174-33	429-101-31	246-143-07	246-142-05	427-302-05	429-170-16
428-174-18	429-101-32	427-151-28	246-142-06	427-302-12	429-170-17
428-174-29	429-101-33	427-151-38	246-142-10	427-302-13	429-122-36
428-174-17	429-102-14	429-110-01	246-142-11	427-311-12	429-122-37
244-250-01	429-110-03	429-110-20	246-142-15	427-311-13	429-122-41
428-030-12	429-110-04	429-122-15	246-142-17	428-030-09	429-170-01
	429-110-11	429-122-17	246-142-19	429-010-03	429-170-02
	429-110-12	429-122-21	246-142-20	429-020-09	429-170-32
	429-110-13	429-122-22	246-143-02	429-020-11	
	429-122-33	429-122-23	246-143-04	429-020-14	
		429-122-27	246-143-10	429-020-16	
		429-122-32			

East-West Gen-Tie Routes

Figure 2 shows the approximate location of the east–west gen-tie route which and includes two route options, Options A and B, along Oak Creek Road; the proposed Project would include only one of these options for the east-west gen-tie route. More specifically, from the intersection of the North–South Gen-Tie Option 1 and Purdy Avenue, the east–west gen-tie is approximately 9.8 miles in length and would run west along Purdy Avenue for approximately 5.5 miles and then would run south of Purdy Avenue, but north of Decatur Avenue for approximately 2.9 miles and then turn north back to Purdy Avenue. From Purdy Avenue, the east–west gen-tie line would run north and northwest for approximately 1.3 miles to Oak Creek Road. Along Oak Creek Road for 0.6 mile there are two options for the east–west gen-tie route— Option A would run north of Oak Creek Road and Option B would run south of Oak Creek Road. From these two options, the east–west gen-tie route would run 0.4 mile before jogging northwest for 0.4 mile and connecting to the Westwind Substation and/or Windhub Substation.



TABLE 5 APNS FOR EAST/WEST GEN-TIE ROUTE OPTIONS

Option A			Option B	
237-031-38	237-113-15	237-332-11	427-100-22	427-151-26
237-032-38	237-113-16	237-332-17	427-100-24	427-151-39
237-032-39	237-114-03	237-332-18	427-151-02	237-031-04
237-043-01	237-114-04	237-461-19	427-151-19	427-151-01
237-043-02	237-114-06	427-020-27	427-151-20	427-120-40
237-043-03	237-114-07	427-020-28	427-160-01	427-120-23
237-043-06	237-114-09	427-020-36	427-160-03	427-120-24
237-043-12	237-114-10	427-020-43	427-160-04	427-120-25
237-043-13	237-114-16	427-030-28	427-160-19	427-160-02
237-043-14	237-192-04	427-030-29	427-160-20	428-030-02
237-055-10	237-331-02	427-030-34	427-160-21	428-030-12
237-113-13	237-331-03	427-030-35	427-160-22	237-043-05
237-113-14	237-331-25	427-030-37	427-410-01	427-100-09
			427-410-02	427-100-11
			428-030-20	237-114-15
			427-151-22	

TABLE 6 PROPOSED GEN-TIE ROUTE OPTIONS SUMMARY

Direction from Solar Facility to Substation	Option	Description
North-South	1	5.6-mile-long gen-tie route; runs from the AFB solar generation site north to the intersection of Purdy Avenue and the BNSF.
	2	4.5-mile-long gen-tie route; runs from the northwestern edge of the AFB solar generation site to the intersection of United Street and Purdy Avenue.
	3	6-mile-long gen-tie route; runs from the northwestern edge of the AFB solar generation site to the intersection of Holt Street and Purdy Avenue.
East-West	1-A	9.8-mile-long gen-tie route; runs from the intersection of Purdy Avenue and the BNSF west to the Westwind Substation and the Windhub Substation. Along Oak Creek Road for 0.6 mile there are two options for the east-west gen-tie route—Option A would run north of Oak Creek Road.
	1-B	9.8-mile-long gen-tie route; runs from the intersection of Purdy Avenue and the BNSF west to the Westwind Substation and the Windhub Substation. Along Oak Creek Road for 0.6 mile there are two options for the east-west gen-tie route—Option B would run south of Oak Creek Road.

Vegetation

The majority of route options are near public roadways and traverse developed lands in some areas. Vegetation is absent where the route options traverse graded road shoulders or manmade surfaces, or consists of weedy species that have colonized developed areas. Creosote bush scrub is the most abundant community along the route options. Joshua trees are relatively common but irregularly distributed, and are generally more abundant along the northernmost Route Option segments. In very limited areas where the route options are adjacent to residential development, ornamental or landscaped vegetation may be present.



Hydrology

The route options are within the same hydrologic basin as the Project site with similar hydrologic characteristics. However, along the route options closer to the Windhub and Westwind Substations, and particularly those along Oak Creek Road, the topography becomes steeper and drainage channels become more defined. A series of channels in this area convey runoff from the southern shoulder of Oak Creek Road.

The portions of the north/south and east/west gen-tie lines are located within an area of flood zoning (Zone AO), which is subject to inundation by 1-percent-annual-chance shallow flood event, including parcels along United Street, and Purdy Avenue.

Surrounding Land Uses

The route options traverse largely undeveloped lands that have been assigned a broad variety of land use designations and zoning classifications by Kern County. The majority of the route options are adjacent to lands designated for agricultural purposes, and the “limited agriculture” zoning designation abuts most of the proposed route option segments. A significant portion of the route options are adjacent to lands designated as “wind energy combining zones.” In addition, a significant portion of the gen-tie North/South routes are located near lands designated for medium and heavy industrial use. Portions of the route options are in proximity to the unincorporated community of Mojave. The Kern County General Plan, Mojave Specific Plan, Soledad Mountain-Elephant Butte Specific Plan, West Edwards Road Settlement Specific Plan, and Actis Interim Rural Community Plan identify land use designations within the proposed route locations. Generally, lands located north of Purdy Avenue and east of 40th Street West are designated for a variety of estate residential, commercial, and industrial land uses. The site of the Windhub Substation is designated for Heavy Industrial use in both the Kern County General Plan and Zoning Ordinance.

1.3 Project Description

1.3.1 Structures and Facilities

The proposed solar facility would consist of solar arrays arranged in a grid pattern to convert solar energy directly to electrical power to supply the electrical grid. The solar facility would consist of the following components, as described in more detail below:

- PV arrays
- On-site substations/switchyards
- Upgrades required to off-site substations to interconnect the Project to the electrical grid
- Permanent services and warehouse buildings
- Multiple laydown areas located throughout the solar facility site
- Installation of an energy storage facility and appurtenances that would provide energy storage capacity for the electric grid;
- Associated roads, fencing, and drainage facilities

Solar PV Arrays

An array consists of an aggregation of PV panels that capture sunlight converting it directly to generate an electric current (DC). If a full 600 MW of energy were to be produced, an estimated two million panels would be installed to implement the Proposed Action.



The panels would be mounted on vibratory pile-driven piers or concrete foundation footings, if piles cannot be driven. The panels would be installed using either a single axis tracking system, whereby the panels are controlled to move with the sun, or on a fixed tilt system, whereby the panels are fixed at a particular angle. For either configuration, most of the pile foundations would be driven to depths of 18 feet. When piles cannot be driven to the required depth, an alternate spread footing detail would be required; these footings are approximately six feet wide by six feet long and two feet deep. The PV panels, at their highest point, would not exceed 12 feet above the ground surface and, at their lowest point, would be approximately 30 inches above the ground surface.

Energy Storage Facilities

Adjacent to the on-site substation an energy storage system is proposed to provide a maximum capacity of 150 MW. The energy storage batteries would be housed in a structure, container boxes, or trailers, and would be located on approximately 20 acres of the EUL. The height of the structure, box, or trailer would be approximately 30 feet. The batteries would be housed in racking (similar to computer racking) 10 to 12 feet high, to allow efficient airflow between the batteries. The associated inverters, transformers, and switchgear would be located immediately adjacent to the energy storage facilities on concrete pads outdoors. The energy storage technology has not been determined at this time, but could include any commercially available battery technology, including but not limited to lithium iron, lead acid, sodium sulfur, and sodium or nickel hydride.

Power Conversion and Fiber Optic Lines

The DC power generated by the PV panels would be delivered either above grade or along an underground trench system located between each row of PV panels. The trenches would be approximately three feet deep and up to five feet wide (including the trench and disturbed area). The DC power for each array would be routed to a 12-foot-wide, 30-foot-long, and 12-foot-tall metal clad electrical enclosure mounted on concrete foundation pads where an inverter and transformer would be located. The inverters within the electrical enclosures would convert the DC power to alternating current (AC). The medium voltage transformers would increase the voltage to 34.5 kV, which is the level required for collection. All electrical equipment would be either outdoor rated or mounted within the electrical enclosures designed specifically for outdoor installation to avoid electrical shock risks to humans and wildlife.

The transformers would be connected in parallel circuits, to deliver AC power along underground trenches to up to three on-site substations. The trenches would be approximately four feet deep and up to five feet wide (including the trench and disturbed area). These trenches would also contain a fiber optic cable.

The final size of each subarray would be determined during final design. For example, a two MW subarray, including the PV panels and associated electrical enclosure, would occupy up to approximately 10 acres for a fixed tilt configuration and up to 15 acres for a tracker configuration.

On-Base Substations

The solar facility would include on-base substations. Substation generation voltage would step up from 34.5 kV to 230 kV for off-base transmission. Each substation would contain a control building with an attached battery room and standard substation equipment. Each substation would not exceed 1.5 acres in size. Substation equipment would generally be between 15 and 35 feet tall, with the exception of the transmission tower, which would be a maximum of 60 feet in height and a lightning protection mast, which would not exceed 75 feet in height (transmission tower plus 15 feet).



Grounding of the substations would be accomplished by ground grids designed to meet the requirements of the Institute of Electrical and Electronics Engineers (IEEE) *Guide for Safety in AC Substation Grounding*. Final ground grid design would be based on site-specific information such as available fault current and local soil resistivity. Typical ground grids consist of direct buried copper conductors with eight-foot-long copper-clad ground rods arranged in a grid pattern to approximately three feet outside of the substation area. Overhead lines would then run from each substation to the Project switchyard described below using 60-foot steel monopoles. The number of poles that would be required within the solar facility would be determined after the facility layout is finalized.

Project Switchyard

The Project switchyard is where the power generated from the different project areas, and coming through their corresponding substations, would be combined before being routed via the 230 kV gen-tie line to the Westwind Substation and SCE's Windhub Substation. The switchyard contains standard switching, metering, and voltage protection equipment. The switchyard site would not exceed 2.4 acres in size. The Project switchyard requires dead-end structures to resist the pulls from phase conductors and shielding wires. These structures would not exceed 80 feet in height. The Project switchyard would also require lightning protection masts, which would not exceed 95 feet in height.

Operation and Maintenance Facilities (Service Buildings and Warehouses)

Warehouse and administrative buildings may be constructed to support full-scale operations within the project site. A smaller-scale project would require less overall space. These buildings would include paved parking lots and septic systems.

On-site Meteorological Equipment

The solar facility may include several Solar Meteorological Stations (SMS) located within the site. It would include up to two solar energy (irradiance) meters, as well as an air temperature and a wind meter. The equipment would be mounted on tripods (at a maximum of 15 feet in height) that would require no permanent foundation. Power for the SMS would be provided by the plant's essential power system or a dedicated PV panel with a small battery. The SMS would be located inside the solar array field or adjacent to a services building; data would be communicated directly to the PCS. The SMS would be used for electrical generation predictions and for coordination with the California Independent Systems Operator (CAISO) or other scheduling entity.

Site Access Roads

Access to the solar facility would be from Lone Butte Road and/or Trotter Avenue. In addition, the solar facility would contain an internal, permanent, unpaved roadway system that would include perimeter roads surrounding the facility, as well as a network of roads between subarrays. These roads would provide access for operation and maintenance activities and would consist of existing onsite materials or a blend of existing and imported materials (e.g., gravel) that would be compacted.

Site Security Fencing

To ensure the safety of the public and to maintain site security, the solar facility would be secured with six-foot-high chain-link fencing topped with three strands of barbed wire for a total height of seven feet.

Access to the solar facility would be controlled and gates would be installed to provide the required access to the site. The site would have closed-circuit television that would be monitored from a remote location.



Drainage Facilities

The drainage facilities have yet to be designed. Earthworks scrapers, paddlewheels, haul vehicles, and graders may all be used to perform localized grading as needed at areas that require compacted soils (i.e., substation pad site, inverter shelters, roads, etc.). Earthwork is not anticipated within the solar arrays where vibratory piles are placed for solar racking. The project would employ disk-and-roll grading to maintain the general slopes and topography of the site to the greatest extent feasible. Perimeter and access roads may be additionally compacted to 90 percent or greater, as required to support construction and emergency vehicles. The grading would be balanced onsite.

Gen-tie and Telecommunication Lines

Power would be carried from the solar facility to the Westwind Substation and SCE Windhub Substation via a 230 kV gen-tie line. One to two circuits and fiber optic communications lines would be installed. The selected gen-tie line route would be constructed on one set of steel monopoles for the majority of the route with some H-frame structures as needed. Pole height would likely range between 100 and 180 feet, and would not exceed 200 feet. The gen-tie line would travel overhead for the majority of the route, but may be installed underground in certain sections where necessary due to physical or commercial constraints. Fiber optic communication cables would run parallel with the gen-tie line either above grade or underground along the alignment. Foundation sizes for the gen-tie poles would be approximately 6 to 12 feet in diameter and 20 to 40 feet deep. The gen-tie poles would be set within the poured concrete foundations or via direct-bury methods.

Where the gen-tie route includes one set of poles, the approximate width of the ROW associated with the gen-tie line would be 60 to 100 feet. The width of disturbance includes approximately 50 feet of disturbance are associated with temporary disturbance for access, pulling conductor, and staging materials. The gen-tie line may also share ROWs with existing public and private transmission lines where technically and commercially feasible.

It is estimated that implementation of the Proposed Action would require the installation of approximately 11 poles per mile for the off-base portion of the gen-tie line. All poles would be designed to be avian-safe in accordance with the Avian Power Line Interaction Committee's (APLIC) suggested practices as identified in *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006).

Upgrades required to interconnect the proposed solar facility to the transmission grid include installation of new transmission equipment, including circuit breakers, switches, bus supports, breaker management relays, insulator/hardware assemblies, telecommunications equipment, and spans of conductors between the last Developer-owned structure and the interconnection point.

Interconnection Upgrades

Upgrades required to interconnect the solar facility to the transmission grid include installation of new transmission equipment, including circuit breakers, switches, bus supports, breaker management relays, insulator/hardware assemblies, telecommunications equipment, and spans of conductors between the last developer-owned structure and the interconnection point.

1.3.2 Construction

Construction of the solar facility is anticipated to last up to two to four years, beginning in late 2018 and lasting through 2022. This assumes a rolling construction as individual phases are built out. However, actual development of the project site is dependent on market conditions upon project approval.



The construction worker population would consist of laborers, electricians, supervisory personnel, support personnel, and construction management personnel. As many as 1,250 temporary construction workers would be employed during Project construction. Construction work would generally occur during daylight hours, Monday through Friday. Non-daylight work hours may be necessary to make up schedule deficiencies, or to complete critical construction activities including activities that cannot be completed during daylight. Any construction work performed outside of the normal work schedule would be coordinated with the appropriate agencies and would conform to the Kern County Noise Ordinance (Chapter 8.36). It is anticipated that the construction workforce would commute to the site each day from local communities. Construction staff not drawn from the local labor pool would stay in any of the local hotels in Rosamond, Lancaster or other local cities.

Solar Facility

Site Preparation

Site preparation would begin by clearing existing vegetation, to the extent necessary, and grading the areas proposed for the main permanent access road to the site and the permanent pad site for inverters. Vegetation clearing and removal operations would be undertaken using mowers, skip loaders, chippers, and dump trucks. Areas proposed for the service buildings and warehouses and their associated parking lots, as well as the proposed switchyard location and on-site substation locations, would also be cleared and graded. These areas would be disked and rolled and compacted to 90 percent; due to the flat topography, the amount of grading is anticipated to be minimal. Initial site preparation activities would also include installation of fencing along the solar facility boundary.

Because of the flat topography of the Project site, it is anticipated that minimal grading would be required to prepare the site for PV modules. The PV module piers also allow for installation on uneven ground, reducing the need for grading. To the extent possible, existing topsoil would be left in place. However, it is anticipated that vegetation would need to be removed as a result of trenching and other construction activities.

Temporary Staging and Laydown Areas, Temporary Buildings

Equipment and material staging areas would be established during the site preparation phase. Multiple temporary staging and laydown areas would be located throughout the solar facility site to support final assembly and installation. The staging areas would be approximately one acre each and the laydown areas would be approximately two acres each. Temporary assembly buildings and construction trailers, would be installed on-site to assemble the PV sub arrays and for other construction activities, and would likely be located near to the warehouse and services buildings.

Temporary holding locations for construction debris and waste would be established outside of any jurisdictional drainage and near the substation and laydown areas. A local, licensed disposal company would be contracted to haul and properly dispose of the refuse. Recyclable items would be staged and disposed of separately, and hazardous materials would be handled in accordance with all laws and regulations.

Solar Array Assembly

Erection of the solar arrays would include support structures and associated electrical equipment. First, steel piles would be driven into the soil using pneumatic techniques, similar to a hydraulic rock hammer attachment on the boom of a rubber-tired backhoe excavator. If hallow bedrock, or other obstructions are encountered, the pile locations would be predrilled and then grouted in place with concrete. The piles are



typically spaced approximately 10-20 feet apart. Once the piles have been installed, the horizontal array support structures would be installed. The final design of the horizontal array support structures may vary, depending on the final election of the PV technology, as well as whether a fixed tilt or tracking system is selected. Once the support structures are installed, workers would begin to install the solar modules. Solar array assembly and installation would require trenching machines and excavators, compactors, concrete trucks and pumpers, vibrators, forklifts, boom trucks, graders, pile drivers, drilling machines, and cranes. Concrete may be required for portions of the footings, and pads for the medium voltage transformers, inverters, O&M buildings, battery storage and communications building. Concrete may also be required for pile foundation support depending on the proposed mounting system chosen for installation and whether or not obstructions are encountered when trying to drive piles. Final concrete specifications would be determined during detailed design engineering. Concrete may be produced on the project site and would be poured throughout the sites by truck, or purchased from an offsite supplier and trucked into the project.

During this work, there would be multiple crews working on the site with vehicles, including special vehicles for transporting the modules and other equipment. As the solar arrays are installed, the solar switchyard would be constructed and the electrical collection and communication systems would be installed.

Electrical Interconnection to Transmission Owner Infrastructure

Within the solar fields, the electrical and communication wiring would be installed in underground trenches, although some of the mid-voltage collection runs and communications may be on overhead lines. The electrical and communication wiring would connect to the appropriate electrical and communication terminations and the circuits would be checked and electrical service would be verified. Additionally, if a tracker system is utilized, the motors would be checked and control logic verified. Once all of the individual systems have been tested, the overall project would be ready for testing under fully integrated conditions.

Construction Water Use and Supply

It is anticipated that up to 1,000 acre-feet (325,850,000 gallons) per year of water would be required during the construction period to support construction activities. To the extent available, tertiary treated water for non-potable uses would be obtained from the Rosamond Community Services District or would be trucked to the site.

Temporary Power

Temporary power for solar facility construction would be provided by mobile diesel-driven generator sets and/or by temporary electrical service from the local power provider. The diesel generators would be registered with the California Air Resources Board (CARB) Portable Equipment Registration Program (PERP).

Gen-tie and Related Telecommunication Lines

Site Preparation

Site preparation would include clearing existing vegetation at the proposed pole locations, including their ground lines; trenching locations; access roads; areas for guard structures; and stringing areas. Vegetation in all of these areas, except for the access roads, would be reseeded with a seed stock comprising local, native species. Vegetation in the temporary staging and laydown areas would be trampled but not cleared; these areas would be reseeded as well. Selective vegetation clearing may also be necessary to provide for line clearance.



Foundations for the gen-tie poles would be installed prior to erection of the poles. Pole installation would then occur sequentially along the route to the extent practical. Buried and overhead fiber optic telecommunication lines may follow the transmission line route to provide for communication between the project substation and the interconnection to the grid.

For certain sections of the gen-tie route, the gen-tie line may be installed underground with the fiber optic cables. Installation of underground facilities would require the use of such equipment as trenchers, backhoes, excavators, haul vehicles, compaction equipment, directional drills, and water trucks. Structures for the gen-tie line and conductor support hardware would be assembled at a temporary staging area at each pole location to minimize damage during transport. In addition, areas of disturbance would be required in certain locations along the gen-tie route to string the lines. During construction of the gen-tie line across existing roads or structures, temporary guard structures may be installed on either side of the crossing to maintain vertical clearance during construction. Guard structures are installed at locations such as road crossings, flood control facilities, and utility crossings. Guard structures would protect underlying areas during wire stringing operations. The guard structures intercepting the wire should it drop below a conventional stringing height, preventing damage or interference to underlying structures. These guard structures would be temporary and be removed after conductor installation is complete.

Because it is anticipated that the gen-tie line would primarily follow existing roads, main access to the gen-tie route would be via these roads. However, new temporary and permanent unpaved access roads may need to be installed to access the laydown areas for each pole and areas where the gen-tie line is installed underground. They would also be used to access the poles for future maintenance activities. The maintenance roads would be maintained at a width of 22 feet and be up to 30 feet wide during construction.

Temporary Staging and Laydown Areas

Structures for the gen-tie line and conductor support hardware would be assembled at each pole location to minimize damage during transport. Construction of the gen-tie line would require an approximate area of 50 feet by 50 feet at each pole location, for use as temporary laydown or staging areas for equipment, poles, and hardware. In addition, approximately two laydown/assembly areas at anticipated that will require five acres of disturbance.

Stringing Areas

In addition to the temporary staging and laydown areas described above, additional areas of disturbance would be required in certain locations along the gen-tie line route in order to string the lines. Specifically, approximately 41 acres of temporary disturbance would be disturbed along the route, where there are large angles in the alignment, at all dead-end structures, and at other strategic locations, in order to accommodate equipment required for wire pulling and tensioning in these areas.

Guard Structures

During construction of the gen-tie line across existing roads, temporary guard structures would need to be installed on either side of the crossing to maintain vertical clearance during construction. Guard structures are installed at locations such as road crossings, flood control facilities, and utility crossings. Guard structures would protect underlying areas during wire stringing operations. They intercept wire should it drop below a conventional stringing height, preventing damage or interference to underlying structures. These guard structures are temporary and are removed after conductor installation is complete. Each guard structure would disturb an approximate 100-foot by 100-foot area (10,000 square feet).



Roads

Because it is anticipated that the gen-tie line would primarily follow existing roads, main access to the gen-tie route would be via these roads. However, new unpaved access roads would need to be installed to access the laydown areas for each pole, and where the gen-tie line is installed underground. These access roads would be maintained at 22 feet wide and could be up to 30 feet wide during construction. They would also be used to access the poles for future maintenance activities.

Construction Design Features and Best Management Practices

Dust Control, Erosion Control, and Water Quality Protection Measures

Construction would commence after a Stormwater Pollution Prevention Plan (SWPPP) incorporating BMPs for runoff and erosion control has been prepared. Site-specific BMPs would be designed by the contractor in compliance with regulations and permit conditions. The Project would also comply with applicable post-construction water quality requirements adopted by the Regional Water Quality Control Board (RWQCB - Lahontan Region). Areas disturbed during construction activities would be stabilized to minimize wind and water erosion, and generation of fugitive dust, by watering and/or the use of dust palliatives or tackifiers. Chipped mulch created as a result of selective vegetation removal may also be spread on-site for this purpose as appropriate.

Solid Waste Management

Solid waste generated from construction activities may include paper, wood, glass, plastics from packing material, waste lumber, insulation, scrap metal and concrete, empty non-hazardous containers, and vegetation wastes. These wastes would be segregated, where practical, for recycling. Non-recyclable wastes would be placed in covered dumpsters and removed on a regular basis by a certified waste handling contractor for disposal at a Class III landfill. Vegetation wastes generated by site clearing and grubbing would be chipped/mulched and spread on-site or hauled off-site to an appropriate green waste facility.

Hazardous Materials and Hazardous Waste Management

The hazardous materials used for construction would be typical of most construction Projects of this type. Such materials would include small quantities of gasoline, diesel fuel, oils, lubricants, solvents, detergents, degreasers, paints, ethylene glycol, and welding materials/supplies. Small quantities of hazardous wastes would likely be generated over the course of construction. These wastes may include waste paint, spent construction solvents, waste cleaners, waste oil, oily rags, waste batteries, and spent welding materials. Hazardous materials management and hazardous waste management during construction activities would follow the requirements of the Hazardous Material Management Program (HMMP) and Hazardous Waste Management Plan for Edwards AFB.

1.3.3 Operations and Maintenance

Once placed into service, the solar facility would operate during daylight hours, when there is sufficient sunlight for operation of the solar field.

Maintenance performed on the site would consist of equipment inspection and replacement in accordance with manufacturer recommendations. Maintenance activities would occur primarily during daylight hours. Maintenance activities would also include washing the PV panels, as described in more detail below.

Operation and maintenance vehicles would include trucks (pickups, flatbeds, dump trucks), forklifts, and loaders for routine and unscheduled maintenance, and water trucks for solar panel washing. Large heavy-



haul transport equipment may be brought to the site, as needed, for equipment repair or replacement. A minimal amount of equipment will be stored on-site in equipment enclosures.

The facility may be staffed by up to 10 full-time personnel for operation, maintenance, and security at the solar facility. Additional personnel would conduct operations from an off-site location. Additional maintenance and security personnel would be dispatched to the solar facility, as needed.

Other operational details are summarized below.

Electrical Supply

The solar facility would require power for the electrical enclosures, substation equipment, tracker motors, service buildings, warehouses, and for plant lighting and security. Power would be provided by the solar facility's electrical generation or supplied by the local power provider. Substation protection equipment would be supplied by DC power provided by each substation control building's battery room. There may also be emergency generators may be located on-site as a back-up power source; however, such emergency generators may only be needed during construction and could perhaps be removed during operations.

Lighting

The lighting system for the solar facility would provide operation and maintenance personnel with illumination for both normal and emergency conditions. Lighting would be designed to provide the minimum illumination needed to achieve safety and security objectives. Lighting would be directed downward and shielded to focus illumination on the desired areas only and to minimize light spillover in accordance with applicable County requirements. Lighting would be provided at the electrical enclosures, on-site buildings, and the main access road entrance. Lighting would be limited so that light spillover on the adjacent properties would be minimal. If lighting at individual solar panels or other equipment is needed for night maintenance, portable lighting would be used.

Water Use

Water for operation of the solar facility would consist primarily of water for panel washing processes and small quantities used for dust mitigation. Water is anticipated to be trucked to the Project site for operations. The Developer would be responsible for purchasing and providing water for the Project.

Operation of the Project may potentially use up to 30 acre-feet per year (AFY) of water. It is assumed that panel washing would require approximately 1 gallon of water per panel, and that each panel would need to be washed up to four times per year to maintain solar panel operating efficiency, resulting in a demand of approximately 25 AFY. Operational decisions regarding panel washing would be made based upon real-time conditions and there may be years in which no washing is required. Depending on the amount of building square feet (that would be relative to the size of the solar facility), up to 5 acre-feet of water may be needed annually to supply water to service buildings and warehouses for showers, bathrooms, and drinking water for onsite employees.

Wastewater Generation

Wastewater generated would include sanitary waste handled via on-site septic systems, stormwater runoff, and panel washdown water. Sanitary waste would be handled via on-site septic systems for the services buildings and warehouses. Stormwater runoff would be collected via an on-site drainage system that has not yet been designed. Finally, panel washdown water would be discharged to grade.



Fire Protection

The Project would comply with all Kern County Fire Code requirements. The PV panels and ancillary equipment represent a negligible increase in fire potential. For the off-site gen-tie line, clearances for vegetation would be implemented in accordance with California Public Utility Code (CPUC) General Order 95 (Rules for Overhead Electric Line Construction).

Solid Waste Management

Operation of the solar facility would produce a small amount of non-hazardous solid waste. This would include refuse generated by workers and office operations such as rags, scrap metal, packing materials from deliveries, and empty containers. Solid waste would be recycled to the maximum extent possible.

Hazardous Materials Use and Management

Limited quantities of hazardous materials would be used and stored for operation and maintenance activities. These materials would include oils, lubricants, paints, solvents, degreasers and other cleaners, and transformer mineral oil. Transformer mineral oil would be stored at the onsite substations; all other hazardous materials would be stored in the warehouses.

Mineral oil may be stored at the solar facility. Each of the two generation step-up transformers at the onsite substations may contain dielectric fluid (mineral oil), on a concrete pad surrounded by earthen, fiberglass, or concrete containment berm/curb. The containment area would be lined with an impermeable membrane covered with gravel, and would drain to an underground storage tank. The onsite substations would have a comprehensive Spill Prevention, Control and Countermeasure SPCC plan in accordance with state and federal regulations. Any stormwater or fluid drained to the tank would be inspected for a sheen prior to disposal. If a sheen is observed, the tank contents would be removed by vacuum truck to an appropriate disposal site. If no sheen or contaminants are detected, the stormwater would be drained onsite.

Any hazardous materials would be stored in appropriate storage locations and containers. Flammable materials, such as paints and solvents, would be stored in nonflammable material storage cabinets with built-in containment sumps. A Hazardous Materials Management Process (HMMP) would be developed for Project operation in compliance with the HMMP for Edwards AFB and the Kern County Fire Department (KCFD) prior to turnover of the site from construction to operation.

1.3.4 Decommissioning

The Developer intends to sell the renewable energy produced by the Project for the term of the Enhanced Use Lease (EUL) with the Air Force. Upon completion of the lease, the owner may extend the EUL with the Air Force or decommission and remove the system and its components. The solar modules would be dismantled and removed from the site by truck and footings removed to a depth of three feet. Upon decommissioning, the solar site could be converted to other uses in accordance with applicable land use regulations in effect at that time.

It is anticipated that during decommissioning, project structures would be removed from the site. Aboveground equipment that would be removed would include module posts and support structures, onsite transmission poles that are not shared with third parties and the overhead collection system within the project site, inverters, transformers, battery storage containers, electrical wiring, equipment on the inverter pads, and related equipment and concrete pads. The substation would be removed if it is owned by the Project, however if a public or private utility assumes ownership of the substation, the substation may remain onsite to be used as part of the utility service to supply other applications. Project roads would be restored to their preconstruction condition unless the landowner elects to retain the improved roads for



access throughout that landowner's property. The area would be thoroughly cleaned and all debris removed. As discussed above, most materials would be recycled to the extent feasible, with minimal disposal to occur in landfills in compliance with all applicable laws.

A collection and recycling program would be executed to promote recycling of project components and minimize disposal of project components in landfills. All decommissioning and restoration activities would adhere to the requirements of the appropriate governing authorities and in accordance with all applicable federal, State, and County regulations. The developer expects a secondary market for PV modules to develop over time. Although energy output may diminish, PV modules are expected to continue to have a productive life and can be decommissioned from a prime location or re-commissioned in another location.

Relationship of the Project to Other Solar Projects

The Project is being developed independently of other approved or proposed solar projects in the County. If approved, the Project would be subject to its own use permits, conditions of approval, interconnection agreements, and power purchase agreements. The County understands that the Project facilities would be built and operated independently of any other solar project, and, if approved, would not depend on any other solar project for economic viability. The Project would involve constructing new gen-tie lines to deliver energy from the solar facility to the existing Westwind and Southern California Edison Windhub Substations which are located approximately 9.5 miles to the northwest.

1.4 Project Objectives

CEQA also requires a statement of Project specific objectives which consist of the following.

1.4.1 Air Force Objectives

The Air Force's objectives include the following:

- Promote the efficient and economical use of Federal real property under Executive Order (EO) 13327, Federal Real Property Management; United States Code (U.S.C), Title 10, Part IV, Chapter 159, Subsection 2667, Leases: Non-Excess Property of Military Departments and Defense Agencies; and Air Force asset management and renewable energy policy and guidance.
- Attain Federal, State of California and Department of Defense (DoD) renewable energy and energy security goals and mandates to include but not limited to: Sections 2822 and 2823 of National Defense Authorization Act of 2012; EOs 13423 and 13514; State of California's Clean Energy and Pollution Reduction Act of 2015 (SB-350); and Office of the Assistant Secretary of Defense's Installation Energy Plans memorandum of May, 31 2016.
- Evaluate, implement and support renewable energy Projects that can minimize or contribute to the reduction of GHG emissions (EO 13514.)

1.4.2 Project Objectives

The Developer's objectives include the following:

- Establish a utility-scale solar PV-generating-facility in order to assist the State of California in achieving the RPS by providing a significant new source of renewable energy (California State Assembly Bill (AB) 32, Senate Bill (SB) 1078, SB 107, SB 350, and SB 2).
- Supply clean, safe, renewable energy for up to 450,000 homes.
- Produce and transmit electricity at a competitive cost and in a manner that is eligible for commercial financing.



- Use technology that is available, proven, efficient, easily maintained, recyclable, and environmentally sound.
- Support the economic development of Kern County and the State of California.
- Enhance existing electrical distribution infrastructure and provide greater support to existing and future customer loads.
- Ensure EUL development plans support County operations in a manner consistent with County plans.
- Minimize environmental effects by:
 - Using existing electrical distribution facilities, rights-of-way, roads, and other existing infrastructure, where practicable;
 - Minimizing impacts on threatened and/or endangered species;
 - Minimizing water use; and
 - Reducing GHG emissions.

Some objectives, such as reducing GHG emissions and increasing the amount of renewable energy consumed and produced are mutual and overlapping goals, while other goals are unique to either the Air Force or the Developer.

1.5 Proposed Discretionary Actions/Required Approvals

The proposed discretionary actions, including required agency consultations, are identified in **Table 7** below. Other additional permits or approvals from responsible agencies may be required for the Project.

TABLE 7: PROPOSED DISCRETIONARY ACTIONS

Action / Permit / Consultation	Agency	Purpose
Enhanced Use Lease	DoD/Air Force	To develop a utility scale renewable energy Project on non-excess real property on Edwards AFB
Air Force Form 332, Work Request	Air Force	To construct proposed facilities within Edwards AFB
Air Force Form 103, Work Authorization Request	Air Force	To construct proposed facilities within Edwards AFB
Record of Decision	Air Force	Approval of the EIS
Environmental Impact Report	Kern County	Consideration and certification of the Final EIR with appropriate Findings (15091 and 15093) and mitigation measures monitoring program, if applicable, by the Kern County Board of Supervisors
Franchise Agreement	Kern County	To utilize County franchise rights for routing the gen-tie line from the Project area to Windhub Substation
Adoption of Mitigation Monitoring Program	Kern County	To ensure mitigation requirements are followed during construction and operation
Grading and Building Permits	Kern County	To permit the construction of proposed facilities within Kern County and Edwards AFB
Fire Safety Plan	Kern County-Fire Department	Ensure fire safety during construction and operations



Action / Permit / Consultation	Agency	Purpose
Permit for Septic Systems	Kern County	To permit the construction and operation of proposed septic systems
Encroachment Permit	Kern County	To permit the construction of facilities with County road rights-of-way
Encroachment Permit	Caltrans	To construct an encroachment into the SR 14 right-of-way
Right-of-Way Grant	BLM	To construct a portion of the gen-tie line on BLM lands
Permit	State Lands Commission	To construct a portion of the gen-tie line on state lands
Easement by Ordinance	LADWP	To cross the LADWP 230 kV and 500 MW transmission lines
Easement	LADWP	To cross the LADWP Los Angeles Aqueduct
Federal Endangered Species Act (ESA) Section 7 Consultation	U.S. Fish and Wildlife Service (USFWS)	To fulfill the requirement for federal agencies to consult with the USFWS if they are proposing an "action" that may affect listed species or their designated habitat
National Historic Preservation Act (NHPA) Section 106 Consultation	State Historic Preservation Officer (SHPO)	To fulfill the requirement for federal agencies to take into account the effects of their undertakings on historic properties, and afford the Advisory Council on Historic Preservation a reasonable opportunity to comment
Determination of No Hazard to Air Navigation	Federal Aviation Administration (FAA)	To ensure that proposed structures would not have a substantial aeronautical impact to air navigation
Incidental Take Permit	California Department of Fish and Wildlife (CDFW)	To permit the potential take of state-listed threatened and endangered species
Streambed Alteration Agreement	CDFW	To permit alterations to CDFW jurisdictional drainages
Wireline Encroachment Permit	Union Pacific Railroad	To permit the construction of wireline crossings over Union Pacific Railroad railways
Authority to Construct/Permit to Operate	Eastern Kern Air Pollution Control District (EKAPCD)	To permit the operation of equipment that may generate significant quantities of air contaminants
National Pollution Discharge Elimination System (NPDES) General Permit	RWQCB	To permit stormwater discharges associated with construction activities
Well Abandonment Approval	RWQCB and Edwards AFB	To properly abandon water wells that are no longer in use

The preceding discretionary actions/approvals are potentially required and do not necessarily represent a comprehensive list of all possible discretionary permits/approvals required. Other additional permits or approvals from responsible agencies may be required for the proposed project.



2.0 Kern County Environmental Checklist Form

2.1 Environmental Factors Potentially Affected:

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is a “potentially significant impact” as indicated by the Kern County Environmental Checklist on the following pages.

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Aesthetics | <input checked="" type="checkbox"/> Agriculture and Forestry Resources | <input checked="" type="checkbox"/> Air Quality |
| <input checked="" type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Cultural Resources | <input checked="" type="checkbox"/> Tribal Cultural Resources |
| <input checked="" type="checkbox"/> Geology and Soils | <input checked="" type="checkbox"/> Greenhouse Gas Emissions | <input checked="" type="checkbox"/> Hazards and Hazardous Materials |
| <input checked="" type="checkbox"/> Hydrology and Water Quality | <input checked="" type="checkbox"/> Land Use and Planning | <input checked="" type="checkbox"/> Mineral Resources |
| <input checked="" type="checkbox"/> Noise | <input type="checkbox"/> Population and Housing | <input checked="" type="checkbox"/> Public Services |
| <input type="checkbox"/> Recreation | <input checked="" type="checkbox"/> Transportation and Traffic | <input checked="" type="checkbox"/> Utilities and Service Systems |
| <input checked="" type="checkbox"/> Mandatory Findings of Significance | | |

In addition to the above environmental factors, the EIS/EIR will include a discussion of the following in order to meet the Proposed Action’s NEPA requirements:

- Air Space Management and Use
- Environmental Justice
- Safety
- Socioeconomics

In addition, geology and soils will be included under the heading *Soil Resources*, and hydrology and water quality, along with water usage will be discussed under the heading *Water Resources*.



2.2 Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the Developer. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect (a) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (b) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENT IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Janice Mayes
Signature

Janice Mayes
Printed Name

November 27, 2017
Date

Edwards AFB Solar, LLC
For



3.0 Evaluation of Environmental Impacts

- (1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- (2) All answers must take account of the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- (3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- (4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measure and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, “Earlier Analyses,” may be cross-referenced).
- (5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or Negative Declaration, Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - (a) Earlier Analysis Used. Identify and state where they are available for review.
 - (b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - (c) Mitigation Measures. For effects that are “Less Than Significant With Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- (6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- (7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- (8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- (9) The explanation of each issue should identify:
 - (a) The significance criteria or threshold, if any, used to evaluate each question; and
 - (b) The mitigation measure identified, if any, to reduce the impact to a less-than-significant level.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
AESTHETICS.				
<i>Would the project:</i>				
a. Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Substantially degrade the existing visual character or quality of the site and its surroundings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Discussion:

- a. The Project site is situated within Edwards AFB. There are no ridges, rocky outcrops, or other substantial topographic features in the Project area. Due to the flat topography and limited height of the solar modules, visual impacts would likely be limited to persons within the immediate area, including residences located across Trotter Avenue. Additionally, the solar facility and gen-tie line are not located in an area identified as having scenic views, nor are they considered to be within a scenic vista. Impacts would be less than significant and no further analysis is warranted.
- b. According to the California Department of Transportation (Caltrans) California Scenic Highway Mapping System, the nearest scenic highways to the Project site include State Route (SR) 14, which is considered an eligible scenic highway from its junction with SR 58 to its junction with SR 395, and SR 58, which is also considered an eligible scenic highway from its junction with SR 14 to Interstate 5. These eligible portions of SR 14 and SR 58 are located nearly 10 miles north of the Project site. The installation of PV solar modules would not be visible from this distance. Therefore, there would be no impacts to scenic resources on a State scenic highway, and no further analysis is warranted.
- c. Surrounding land uses consist primarily of undeveloped land within Edwards AFB. Land uses along the gen-tie line are generally undeveloped and rural in nature, with scattered residences. Approximately 30 residences border the north side of the Edwards AFB boundary along Trotter Avenue. PV solar modules and associated structures on the Project site would be visible to those residences, as well as to those traveling in the vicinity and would alter the character of the surrounding area. Changes to the visual quality and character of the Project site would be potentially significant, and impacts will be further evaluated in the EIS/EIR.



- d. The Project site is situated on a currently undeveloped site within Edwards AFB. No lighting exists on the Project site, however, some street and residential lighting exists along Trotter Avenue. The PV modules are designed to absorb sunlight to maximize electrical output; therefore, they are not expected to create significant reflective surfaces or the potential for glint/glare during the day. The proposed solar facility lighting would be designed to provide the minimum illumination needed to achieve safety and security objectives, and would be directed downward and shielded to focus illumination on the desired areas only and minimize light trespass. However, further analysis of the specific lighting required, the effects of nighttime light on the area, and impacts from glare from the Project are warranted due to the abundance of flight training activities that occur at Edwards AFB. These impacts will be further evaluated in the EIS/EIR.



Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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AGRICULTURE AND FOREST RESOURCES.

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state’s inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

- | | | | | |
|---|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. Conflict with existing zoning for agricultural use, or Williamson Act contract? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Productions (as defined in Government Code section 51104(g))? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. Result in the loss of forest land or conversion of forest land to non-forest use? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Result in the cancellation of an open space contract made pursuant to the California Land Conservation Act of 1965 or Farmland Security Zone Contract for any parcel of 100 or more acres (Section 15206(b)(3) Public Resources Code)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



Discussion:

- a. The California Department of Conservation Farmland Mapping and Monitoring Program does not identify any of the lands within the proposed solar facility site or along the proposed gen-tie line as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. As a result, the proposed Project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance as designated by the Department of Conservation. Therefore, further analysis of this issue is not warranted in the EIS/EIR.
- b. The site of the proposed solar facility is located within lands zoned for limited agricultural purposes. The Project site does not contain lands that are subject to Williamson Act contracts, either active or in nonrenewal. However, the gen-tie route options abut lands that are zoned Exclusive Agriculture and Limited Agriculture. Thus, the Project may conflict with existing zoning for agricultural use. This issue will be further analyzed in the EIS/EIR.
- c., d. There are no lands in the vicinity of the solar facility site and gen-tie route options that are zoned as forest land, timberland, or for timberland production. Therefore, there would be no impacts regarding the rezoning of forest land, timberland, or timberland zoned for timberland production and no further analysis is warranted.
- e. The proposed solar facility site consists of undeveloped land within Edwards AFB and would not result in the conversion of farmland to nonagricultural uses. However, the proposed gen-tie line is immediately adjacent to lands zoned for agricultural purposes, and has the potential to convert farmland to non-agricultural uses. Therefore, this issue will be further analyzed in the EIS/EIR.
- f. The Project site is not subject to an open space contract made pursuant to the California Land Conservation Act of 1965 or the Farmland Security Zone Contract. As stated above, the Project site is not under a Williamson Act contract, and no impacts are anticipated. Therefore, further analysis of this issue is not warranted in the EIS/EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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AIR QUALITY.

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

a. Conflict with or obstruct implementation of the applicable air quality plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Violate any air quality standard as adopted in (c)i or (c)ii, or as established by EPA or air district or contribute substantially to an existing or projected air quality violation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)? Specifically, would implementation of the project exceed any of the following adopted thresholds:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. San Joaquin Valley Unified Air Pollution Control District:				
<u>Operational and Area Sources:</u>				
Reactive Organic Gases (ROG) 10 tons per year.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Oxides of Nitrogen (NO _x) 10 tons per year.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Particulate Matter (PM ₁₀) 15 tons per year.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Stationary Sources as Determined by District Rules:</u>				
Severe Nonattainment 25 tons per year.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Extreme Nonattainment 10 tons per year.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
ii. Eastern Kern Air Pollution Control District:				
<u>Operational and Area Sources:</u>				
Reactive Organic Gases (ROG) 25 tons per year.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oxides of nitrogen (NO _x) 25 tons per year.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Particulate Matter (PM ₁₀) 15 tons per year.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Stationary Sources as Determined by District Rules:</u>				
25 tons per year.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Expose sensitive receptors to substantial pollutant concentrations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

- a. The Project site is located entirely within the jurisdiction of the Eastern Kern Air Pollution Control District (EKAPCD), in the Mojave Desert Air Basin (MDAB). The EKAPCD is designated nonattainment for both the state and federal ozone standards and the state particulate matter (PM₁₀) standard. Construction of the solar facility would generate emissions of oxides of nitrogen (NO_x) and PM₁₀ that could result in significant impacts to air quality in the area. Equipment usage and activities during construction of the Project would result in emissions of PM₁₀ and ozone precursors, including NO_x and volatile organic compounds (VOCs), which could result in significant impacts to air quality in the area. The sources of emissions would include heavy equipment used to excavate and grade the array pads and access areas, cranes, and on-road motor vehicles for equipment and material deliveries and workers commuting to and from the site. Grading and activity on unpaved roads and lay-down areas would contribute to PM₁₀ emissions. This impact is potentially significant. Further analysis of air quality impacts is warranted to determine whether the Project would conflict with or obstruct implementation of the applicable plans for attainment and, if so, to determine the reasonable and feasible mitigation measures that could be imposed. These issues will be evaluated in the EIS/EIR.
- b. Short-term construction emissions could significantly contribute to an existing or projected air quality violation of PM₁₀ or ozone standards, requiring the consideration of mitigation measures. This impact is potentially significant and will be evaluated further in the EIS/EIR.
- c. The EKAPCD is a nonattainment area for the state and federal ozone standards and the state PM₁₀ standard. The EKAPCD rules and regulations apply to all Project activities. The air quality analysis will include a quantitative discussion of emissions created by this Project regardless of the air basin. This



will include activities such as truck trips to deliver panels or employees to the site. Cumulative contributions to this basin could be potentially significant. Construction and operational emissions will be analyzed in the EIS/EIR.

- d. The Project site is located in a sparsely populated area, and the nearest resident is across Trotter Avenue, approximately 200 feet from the site. However, any sensitive receptors could be exposed to pollutant emissions. Construction-related activity would result in diesel exhaust emissions and dust that could adversely affect air quality for the nearest sensitive receptors. Mitigation measures for diesel equipment and dust control that are recommended by the EKAPCD will be evaluated as part of the EIS/EIR to avoid or reduce the impacts to construction workers and occupants of nearby residences.
- e. Aside from odors associated with vehicle exhaust and fueling, no odors would result from implementation of the Project. Therefore, it is anticipated that there would be no impact and further analysis is not warranted in the EIS/EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
BIOLOGICAL RESOURCES.				
Would the project:				
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

a., b. The Project site is located within Edwards AFB in southeastern Kern County. The Project site contains large areas of undeveloped land with native vegetation. A biological analysis is required to identify any critical habitats, riparian habitats, and sensitive species on or near the site. As such, impacts to biological resources are potentially significant and impacts will be analyzed in the EIS/EIR.



- c. The Project site is located within Edwards AFB and does not appear to support any riparian habitat or other sensitive natural communities as may be defined by local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife (CDFW) or U.S. Fish and Wildlife Service (USFWS). A biological analysis, soils characterization, and drainage study will be prepared to examine this issue in more detail. This issue will be further evaluated in the EIS/EIR. Jason start
- d. The Project site and surrounding area may be used for migration or dispersal by some avian species. Construction and operation of the Project could also remove foraging habitat. This impact will be evaluated in the EIS/EIR.
- e. There is a policy within the Kern County General Plan addressing oak tree preservation. However, due to the lack of oak trees within the Project site, there would be a less than significant impact. This issue will not be further evaluated in the EIS/EIR.
- f. The proposed project is located within the West Mojave Plan (WMP) planning area. However, the WMP only applies to federal public lands managed by the BLM and is not an adopted Habitat Conservation Plan (HCP) or Natural Community Conservation Plan (NCCP). The site is also located within a Development Focus Area of the Desert Renewable Energy Conservation Plan (DRECP) planning area, which means that the area is expected to support fewer sensitive status species than areas identified with conservation potential and is therefore more likely to be appropriate for renewable energy development. However, the DRECP at this time only applies to federal public lands managed by the BLM and is not an adopted HCP or NCCP. A portion of North-South Gen-tie Route Option 3 would cross land administered by the BLM and, therefore, is subject to the WMP and the DRECP. There are no impacts because the proposed project would not conflict with the provisions of an adopted habitat conservation plan. Therefore, biological resources data generated by the WMP and DRECP that are relevant to the project site will be considered in the EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
CULTURAL RESOURCES.				
Would the project:				
a. Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines §15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code 21074	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines §15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Discussion:

- (a)–(c) The Project consists of undeveloped land. Development of the Project would require ground disturbance for grading, installation of the solar arrays, gen-tie line, and placement of underground electrical and communications lines; this development could potentially impact historical resources, tribal cultural resources, and archaeological resources. A cultural resources survey will be conducted for the Project. Further evaluation in the EIR is warranted to identify potential impacts to historical, archaeological resources and tribal cultural resources and to formulate avoidance or mitigation measures, if applicable.
- d. Kern County is rich in paleontological resources. Construction activities would involve relatively shallow excavations and trenching; therefore, significant impacts to paleontological resources are anticipated to be less than significant with mitigation. However, the EIS/EIR will include an analysis of paleontological resources.
- e. There is no evidence that the Project site is located within an area likely to contain human remains, and discovery of human remains during earthmoving activities is not anticipated. However, the potential for human remains to be encountered will be further analyzed in the EIS/EIR.



Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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TRIBAL CULTURAL RESOURCES.

Would the project:

- a. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

b.

i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

ii. A resource determined by the lead agency in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Discussion:

(a)(i–ii) Evidence is not present to suggest the Project site has been previously developed or used as farmland, which has the potential to disturb any cultural resources, including tribal cultural resources. All tribes with possible cultural affiliation and interest within the Project area will be notified, per Assembly Bill 52. The potential for tribal cultural resources to be encountered will be evaluated further in the EIR.



GEOLOGY AND SOILS.

Would the project:

- a. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.
 - ii) Strong seismic ground shaking?
 - iii) Seismic-related ground failure, including liquefaction?
 - iv) Landslides?
- b. Result in substantial soil erosion or the loss of topsoil?
- c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?
- d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?
- e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Discussion

- a.i Primary ground rupture is ground deformation that occurs along the surface trace of the causative fault during an earthquake. The Project site is not transected by known active or potentially active faults. The Garlock fault zone, the nearest fault to the Project site, is located approximately 12 miles northwest of the site.

As many as 1,250 construction workers would be employed during construction of the Project and up to 10 personnel would be required for operation, maintenance, and security at the solar facility. Up to 40,000 square feet of permanent services and warehouse buildings would be constructed throughout the solar facility site. Thus, there is the potential for active fault zones to expose people or structures to substantial adverse effects. Further analysis will be included in the EIS/EIR.

- a.ii Strong seismic ground shaking could occur at the Project site, resulting in damage to structures that are not properly designed to withstand strong ground shaking. The Project would include the construction of the solar facility, transmission lines, an electrical collection system, service buildings, warehouses, and other associated infrastructure. During operations, up to 10 personnel would be required for operation, maintenance, and security at the solar facility. These staff could be affected by strong seismic ground shaking. Construction workers would be on-site temporarily. Construction of the Project would be subject to all applicable ordinances of the Kern County Building Code (Chapter 17.08). Kern County has adopted the California Building Standards Code, 2010 Edition (CCR Title 24), which imposes substantially the same requirements as the International Building Code (IBC), 2009 Edition, with some modifications and amendments. The entire County is located in seismic Zone 4, a designation previously used in the Uniform Building Code (UBC) to denote the areas of the highest risk to earthquake ground motion. Adherence to applicable regulations would minimize the potential impacts associated with the Project. This issue will be analyzed further in the EIS/EIR.

- a.iii Seismically induced liquefaction occurs when loose, water-saturated sediments of relatively low density are subjected to extreme shaking that causes soils to lose strength or stiffness because of increased pore water pressure. Liquefaction generally occurs when the depth of groundwater is less than approximately 50 feet. Based on review of available groundwater data in the site vicinity, the groundwater is reported to be deeper than 100 feet below the ground surface. Thus, the potential for liquefaction at the surface is low. Structures constructed as part of the Project would be required by state law to be constructed in accordance with all applicable IBC and California Building Code (CBC) earthquake construction standards, including those relating to soil characteristics. Adherence to all applicable regulations would avoid any potential impacts to structures resulting from liquefaction at the Project site. Impacts resulting from liquefaction are anticipated to be less than significant; however, further analysis in the EIS/EIR is warranted.

- a.iv The Project site is located in a relatively flat plain, where the likelihood of landslides is low. Therefore, impacts related to landslides are not anticipated to occur or pose a hazard to the Project or surrounding area. Further analysis of this issue is not warranted in the EIS/EIR.

- b. Minimal grading and excavation would be required for foundations at the site, but some trenching would be required for the installation of underground cables and circuits. Construction of the Project would have the potential to result in erosion, sedimentation, and discharge of construction debris from the site. Clearing of vegetation and grading activities, for example, could lead to exposed or stockpiled soils susceptible to peak stormwater runoff flows and wind. The compaction of soils by heavy equipment may minimally reduce the infiltration capacity of soils (exposed during construction) and increase runoff and erosion potential. The presence of large amounts of raw materials for construction, including aggregate



base course material, may lead to stormwater runoff contamination. The Project operator would be required to obtain a National Pollutant Discharge Elimination System (NPDES) general construction permit, because development of the Project would disturb at least one acre of soil. In order to conform to the requirements of the NPDES general construction permit, a Stormwater Pollution Prevention Plan (SWPPP) would need to be prepared that specifies best management practices (BMPs) to prevent construction pollutants, including eroded soils (such as topsoil), from moving off-site. Although impacts are anticipated to be less than significant with implementation of the above requirements, this issue will be further evaluated in the EIS/EIR.

- c. As discussed above, the Project site lies in a relatively flat plain where landslides would not be expected to occur. Therefore, impacts related to landslides are not anticipated to occur or to pose a hazard to the proposed solar facility or surrounding area, and further analysis of this issue is not warranted in the EIS/EIR.

Most of the Project site is located on an undeveloped alluvial plain. Compressible alluvial soils pose the risk of adverse settlement under static loads imposed by new fill or structures. The Project would be designed to comply with applicable building codes and structural improvement requirements to withstand the effects of collapsible soils; however, this issue will be further evaluated in the EIS/EIR.

- d. Expansive soils are fine-grained soils (generally high plasticity clays) that can undergo a significant increase in volume when wetted and a significant decrease in volume as they dry. Changes in the water content of a highly expansive soil can result in severe distress to structures constructed on or against the soil. The expansion potential of on-site soils has not been determined. The proposed solar facility would be designed to comply with applicable building codes and structural improvement requirements to withstand the effects of expansive soils. The implementation of Kern County Building Code requirements, as applicable, would minimize the potential impact of expansive soils. However, this issue will be further evaluated in the EIS/EIR.
- e. The operational phase of the Project would include service buildings and warehouses with up to 10 employees. This facility would include development of a septic system. Wastewater generated during operation is not expected to be significant because the Project would require a small number of employees. Soils on-site could have expansive qualities potentially impacting operation of the proposed septic system. The impact is considered to be less than significant; however, this issue will be further evaluated in the EIS/EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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GREENHOUSE GAS EMISSIONS.

Would the project:

- | | | | | |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|
| a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion:

- a. Greenhouse gas (GHG) emissions emitted by human activity are implicated in global climate change or global warming. The principal GHGs are carbon dioxide (CO₂), methane (CH₄), nitrous oxides (NO_x), ozone, water vapor, and fluorinated gases. Fossil fuel consumption in the transportation sector (on-road motor vehicles, off-highway mobile sources, and aircraft) is the single largest source of GHG emissions, accounting for an estimated one-half of GHG emissions globally. Construction activities associated with heavy equipment operation, truck deliveries, and construction worker commute trips would temporarily generate GHGs. Although operation of the Project is intended to offset GHGs generated by traditional sources of electricity, potential impacts will be further evaluated in the EIS/EIR.
- b. California has passed several bills and the governor has signed at least three executive orders regarding GHGs. Assembly Bill (AB) 32 (the Global Warming Solutions Act) was passed by the California legislature on August 31, 2006. It requires the state’s global warming emissions to be reduced to 1990 levels by 2020. The reduction is being accomplished through an enforceable statewide cap on GHG emissions that was phased in starting in 2012.

In 2002, California established its Renewable Portfolio Standard (RPS) Program, with the goal of increasing the percentage of renewable energy in the state’s electricity mix to 20 percent renewable energy by 2017. In 2006, under Senate Bill (SB) 107, the RPS Program codified the 20 percent goal. The RPS Program requires electric utilities and providers to increase procurement from eligible renewable energy resources by at least one percent of their retail sales annually until they reach 20 percent by 2010. On November 17, 2008, the governor signed Executive Order S-14-08, requiring California utilities to reach the 33 percent renewable goal by 2020. In 2015, SB 350 was enacted to increase the RPS to 50 percent and reduce greenhouse gas emissions by 40 percent by the year 2030. The proposed solar facility is intended to: (1) reduce importation of power from fossil fuel power plants; and (2) contribute to a reduction in GHGs. Nevertheless, potential impacts related to GHG emissions will be further evaluated in the EIS/EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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HAZARDS AND HAZARDOUS MATERIALS.

Would the project:

- | | | | | |
|--|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a. Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. For a project located within the adopted Kern County Airport Land Use Compatibility Plan, would the project result in a safety hazard for people residing or working in the project area? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g. Impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h. Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Potentially Significant Impact Less Than Significant Impact	Potentially Significant Impact No Impact
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- i. Would implementation of the project generate vectors (flies, mosquitoes, rodents, etc.) or have a component that includes agricultural waste? Specifically, would the project exceed the following qualitative threshold:

The presence of domestic flies, mosquitoes, cockroaches, rodents, and/or any other vectors associated with the project is significant when the applicable enforcement agency determines that any of the vectors:

i. Occur as immature stages and adults in numbers considerably in excess of those found in the surrounding environment; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii. Are associated with design, layout, and management of project operations; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii. Disseminate widely from the property; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv. Cause detrimental effects on the public health or well being of the majority of the surrounding population.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

- a. The proposed Project would not involve the routine transport, use, or disposal of hazardous materials as defined by the Hazardous Materials Transportation Uniform Safety Act and is not expected to create a significant hazard to the public or the environment. Construction of the proposed Project would require transporting general construction materials (concrete, wood, metal, fuel, etc.) as well as materials necessary to construct the proposed PV arrays. Project-related infrastructure would not emit hazardous materials, or be constructed of acutely hazardous materials or substances that could adversely impact the public or on-site workers. Wastes generated during construction of the Project would also be non-hazardous, and would consist of cardboard, wood pallets, copper wire, scrap steel, common trash, and wood wire spools. Although field equipment used during construction activities could contain various hazardous materials (hydraulic oil, diesel fuel, grease, lubricants, solvents, adhesives, paints, etc.), these materials are not considered to be acutely hazardous and would be used in accordance with the manufacturer specifications and all applicable regulations. In addition, hazardous fuels and lubricants used on field equipment would be subject to a Hazardous Waste Management Plan and a Spill Prevention, Containment, and Countermeasure Plan. Impacts resulting from the transport, use, or disposal of hazardous materials during construction of the Project would be potentially significant and the EIS/EIR will include an evaluation of potential hazardous materials impacts.

The Project would be subject to all local, state, and federal laws pertaining to the use of hazardous materials on-site and would be subject to review by the Kern County Environmental Health Services



Division. The Project operator would be required to submit a complete list of all materials used on-site, how the materials would be transported, and in what form they would be used to maintain safety and prevent possible environmental contamination or worker exposure. During construction of the Project, Material Safety Data Sheets (MSDS) for all applicable materials present at the site would be made readily available to on-site personnel. During construction of the facilities, non-hazardous construction debris would be generated and disposed of in approved facilities. During construction of the facility, sanitary waste would be managed using portable toilets located at reasonably accessible on-site locations. Therefore, construction would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

The PV panels may include solid materials that are considered to be hazardous, such as cadmium telluride. The Project would use the manufacturer's collection and recycling program to ensure the proper collection and recycling of PV panels, as needed. Solar panels are in a solid and non-leachable state; broken PV panels would not be a source of pollution in stormwater.

Dust palliative and herbicides, if used, may be transported to and stored at the Project site. These materials would be stored in appropriate containers that would prevent their accidental release at the site.

SR 138 is located 23 miles south of the Project site and is a designated route for the transport of hazardous materials. SR 138 can be accessed from Interstate 5 and SR 14. These roadways are equipped to handle the transport of hazardous materials and would provide regional access to the site. The operation of the Project would not involve the routine use of materials defined as hazardous and, therefore, would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials during either construction or operation. Impacts are anticipated to be potentially significant; therefore the EIS/EIR will include an evaluation of potential hazardous material impacts.

- b. Construction and operation of the Project may include the accidental release of materials such as cleaning fluids and petroleum products including lubricants, fuels, and solvents. Electrical transformer equipment that would be installed as part of the Project may include various hazardous substances, including polychlorinated biphenyls (PCBs). The toxicity and potential release of these materials would depend on the quantity, type of storage container, safety protocols used on the site, frequency and duration of spills or storage leaks, and the reactivity of hazardous substances with other materials. The Project would be subject to all local, state, and federal laws pertaining to the use of hazardous materials onsite and would be subject to review by the Kern County Environmental Health Services Division. Through the review process, the Project operator would be required to submit a complete list of all materials used on-site, how the materials would be transported, and in what form they would be used. This would be recorded to maintain safety and prevent possible environmental contamination or worker exposure. This would include submission of MSDS for all applicable materials present at the site. The MSDS would be made readily available to on-site personnel. It is anticipated that adherence to regulations and standard protocols during the storage, transportation, and usage of any hazardous materials would avoid significant impacts. However, potential impacts will be evaluated in the EIS/EIR.
- c. The Project site is located in a predominantly rural and undeveloped part of Kern County. There are no schools within one-quarter mile of the Project site and none planned in the vicinity. Additionally, the Project consists of solar energy generation facilities that involve using PV panels to generate electricity. Project-related infrastructure would not emit hazardous materials or involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. No significant impacts are anticipated, and further analysis of this issue is not warranted in the EIS/EIR.



- d. The Project site may be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. This issue will be further analyzed in the EIS/EIR.
- e. The Project site is located on Edwards AFB, which is a military aviation installation identified in the County Airport Land Use Compatibility Plan (ALUCP). Therefore, the Project has the potential to result in a safety hazards for people residing or working in the Project area. This issue will be further analyzed in the EIS/EIR.
- f. The proposed gen-tie line would be constructed with 1.5 miles of the Mojave Air and Space Port, which is identified in the ALUCP. A portion of the gen-tie line may be constructed within Airport Influence Zones D, E1 and E2. This issue will be further analyzed in the EIS/EIR.
- g. The Project would not physically impede the existing emergency response plans, emergency vehicle access, or personnel access to the Project site. The Project site is located in a remote area with several alternative access roads allowing access to the site in the event of an emergency. Access would be maintained throughout construction, and appropriate detours would be provided in the event of potential road closures. Therefore, no significant impacts related to impairment of the implementation of or physical interference with an adopted emergency response plan or emergency evacuation plan would occur. Further analysis of this issue is not warranted in the EIS/EIR.
- h. The Project site is classified as having a (-1) fire hazard potential, which indicates a very low potential. It is also outside of areas identified by the California Department of Forestry and Fire Protection as having substantial or very high risk. The construction and operation of the Project would not result in increased risk of wildfires in the Project area. Regardless, the proposed solar facility would comply with all applicable wildland fire management plans and policies established by CAL FIRE and Kern County Fire Department. Accordingly, the Project is not expected to expose people or structures to a significant risk of loss, injury, or death involving wildland fires. Therefore, impacts would be less than significant, and further analysis of this issue is not warranted in the EIS/EIR.
- i. Project-related infrastructure is not expected to result in features or conditions (such as standing water, agricultural products, agricultural waste, or human waste) that would provide habitat for vectors such as mosquitoes, flies, cockroaches, or rodents. During construction and operation of the Project, workers would generate small quantities of solid waste (trash) that would be appropriately stored for permanent disposal. Therefore, impacts would not occur and no further analysis is warranted.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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HYDROLOGY AND WATER QUALITY.

Would the project:

a. Violate any water quality standards or waste discharge requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation onsite or offsite?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding onsite or offsite?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h. Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
i. Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j. Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

- a. The Project site is located within the RWQCB Lahontan Region. Project construction activities have the potential to result in erosion, sedimentation, and the discharge of construction debris. Appropriate BMPs and compliance with applicable regulations would reduce potential water quality impacts. The Project contractor(s) would apply for coverage under the state’s General Construction Permit for stormwater discharges from construction activities and would prepare a Stormwater Pollution Prevention Plan (SWPPP) including BMP erosion-control measures to control stormwater runoff. Site-specific BMPs would be designed by the contractor in compliance with regulations and permit conditions. Therefore, impacts related to water quality during construction would be considered less than significant. Although no significant impacts related to water quality are anticipated, a comprehensive hydrology and water quality impact analysis will be included in the EIS/EIR.
- b. Water would be used during construction and operation for dust control, panel washing, and sanitary use. Water needed for construction is expected to be purchased from a local water purveyor. Nonpotable water supplies for operation of the solar facility would rely on tertiary treated water to the extent available from the Rosamond Community Services District or Antelope Valley East Kern Water Agency. Cleaning of solar panels would be required at least once each year. A comprehensive hydrology and water quality study assessing potential impacts to groundwater use, quality, and recharge would be prepared. This topic will be further analyzed in the EIS/EIR.
- c. As with much of the surrounding valley, the Project site is relatively flat. The solar modules and associated facilities areas would require limited site grading. Each array of panels would require concrete footings and fencing would be installed around the entire site. The construction of the concrete pads or other types of foundational supports for the arrays would potentially alter the existing drainage pattern of the site or area. However, the Project is not expected to significantly affect the flow patterns of any of the existing drainage courses in the vicinity. The selected technology leads to a design with minimal obstruction to the existing sheetflow pattern of stormflows on the site.

Minor site grading and compaction would result in a slight increase in impervious surface area. An area would be graded to prepare a smooth surface for panel foundations. The addition of the foundations and inverter pads would create a slight increase in area that can be considered impervious. However, these foundations would be small in size and located throughout the site.

Rainwater that falls onto the panels would drain freely to the ground. The panels would have a sloping orientation, and in general, the lower edge of the PV panel is where rain would run off. Based on the small volume of water falling from each panel, the height of the fall, and the soil conditions, only a very



small amount of erosion would occur. Water would fall from the PV panels and pond at a drip point before infiltrating or gradually migrating into the existing drainage patterns.

A SWPPP would be prepared for the Project and applicable permits would be obtained from the RWQCB, Lahontan Region. A hydrology study will be prepared for the Project in accordance with Kern County requirements, and the potential for erosion will be analyzed in the EIS/EIR.

- d. Although the project site is in an area of an undetermined flood zone (Zone D), mapped 100-year flood zones (Zone A) adjacent to the project site and a preliminary flood zone map based on best information available have suggested that the project site likely contains 100-year flood zones. Therefore, it is reasonable to assume the project site is within the 100-year flood zone; therefore, flooding is part of the baseline condition for the area. Development of the Project site would increase impervious surface and could result in an increase in sheetflow across the site and changes in drainage patterns. A SWPPP would be prepared that will incorporate BMPs to limit erosion during construction and operation of the Project. The EIS/EIR will evaluate impacts to drainage patterns and the potential for increased flooding.
- e. During construction and following installation of the solar arrays, most of the site would remain as pervious surfaces. The design of the solar arrays is such that stormwater infiltration would occur similar to existing conditions. No component of the Project would concentrate runoff and exceed the capacity of existing or planned stormwater drainage systems. Similarly, no component of the Project is considered a substantial source of polluted runoff. The construction period SWPPP and the operational period Water Quality Management Plan (WQMP) would ensure the proper control and treatment, if necessary, of any stormwater prior to discharge. With adherence to site-specific BMPs, potential pollutants would be minimized to the extent practicable and should not exceed numeric thresholds for water quality protection. Nevertheless, this impact will be discussed further in the EIS/EIR.
- f. Project construction activities (such as grading) could potentially degrade water quality through erosion and subsequent sedimentation of streams. Additionally, accidental release of potentially harmful materials, such as engine oil, diesel fuel, and cement slurry, could degrade the water quality of nearby streams. Implementation of a Spill Prevention, Containment, and Countermeasure Plan would include construction BMPs to reduce the impact of Project activities on surrounding water quality. Therefore, construction and operation of the proposed solar facility should not substantially degrade water quality. Nevertheless, this impact will be discussed further in the EIS/EIR.
- g. Current Federal Emergency Management Agency (FEMA) Flood Rate Insurance Maps (FIRM) do not show data such as 100-year flood zones for areas within Edwards AFB. According to FIRM 06029C3675E, 06029C3290E, 06029C3295E, 06029C3280E, and 06029C3285E, the proposed gen-tie line would cross areas designated as Zone "A," which include areas that have a one percent annual chance of flooding (100-year flood zones). However, the Project does not include housing. Therefore, no impact would occur and no further analysis is warranted.
- h. As discussed under item g above, the proposed gen-tie line would cross areas designated as Zone "A," which include areas that have a one percent annual chance of flooding (100-year flood zones). The Project would be reviewed by the Kern County Engineering, Surveying, and Permit Services Department for adherence to all floodplain management standards. Further analysis is required to identify appropriate mitigation/design measures to reduce impacts from potential flooding and additional review will be provided in the EIS/EIR.



- i. The Project site is not located within an area that is subject to flooding due to failure of a levee or dam. Therefore, the Project would not expose people or structures to a significant risk of loss, injury, or death due to flooding. Impacts would not be expected, and no further analysis is warranted in the EIS/EIR.
- j. The Project site is not located near an ocean or enclosed body of water, and it would not be subject to inundation by seiche or tsunami. Mudflows are a type of mass wasting or landslide where earth and surface materials are rapidly transported downhill under the force of gravity. Due to the flat nature of the Project site and surrounding area, the potential to be inundated by mudflow is considered remote. Therefore, impacts would not be expected, and no further analysis is warranted.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
LAND USE AND PLANNING. Would the project:				
a. Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

- a. The Project site is located within Edwards AFB. The nearest established community is Mojave, which is located five miles north of the Project site. The proposed solar facility would not physically divide or restrict access to Mojave or any other community. Therefore, the Project would have no impacts related to the physical division of an established community, and further analysis is not warranted.
- b. The solar facility would be located within Edwards AFB and is not subject to Kern County land use and zoning requirements. As a result, the solar facility is not under the jurisdiction of the Kern County General Plan, any specific plans, or the zoning ordinance. Therefore, the solar facility would not conflict with any applicable plans. However, the proposed 230 kV gen-tie line would traverse publicly and privately-owned land to connect the solar facility to the Windhub and Westwind Substations. The gen-tie line would traverse areas under the jurisdiction of the Kern County General Plan, Mojave Specific Plan, Soledad Mountain-Elephant Butte Specific Plan, West Edwards Road Settlement Specific Plan, and Actis Interim Rural Community Plan. Although it is anticipated that the gen-tie line would not conflict with these plans and impacts would be less than significant, this will be analyzed further in the EIS/EIR.
- c. The Project site is not located within the boundaries of any habitat conservation plan or natural community conservation plan; therefore, no impact would occur and no further analysis is warranted.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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MINERAL RESOURCES.

Would the project:

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|---|--------------------------|--------------------------|-------------------------------------|--------------------------|
| a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion:

- This Project site is not located in any designated resource area. Numerous mining operations in Kern County extract sand and gravel, stone, gold, dimensional stone, limestone, clay, shale, gypsum, pumice, decorative rock, silica, and specialty sand. There are no known mineral resources within the Project area; therefore, the Project would not have a significant impact on future mineral development. The installation of PV panels on the site would not preclude future on-site mineral resource development, should the site be determined to contain mineral resources in the future. However, impacts will be further discussed in the EIS/EIR.
- The Project site contains no locally important mineral resource recovery sites delineated in the Kern County General Plan, Mojave Specific Plan, Soledad Mountain-Elephant Butte Specific Plan, West Edwards Road Settlement Specific Plan, and Actis Interim Rural Community Plan. The installation of PV panels on the site would not preclude future on-site mineral resource development, should the site be determined to contain mineral resources in the future. However, impacts will be further discussed in the EIS/EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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NOISE.

Would the project result in:

a. Exposure of persons to, or generate, noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Exposure of persons to, or generate, excessive groundborne vibration or groundborne noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. For a project located within the Kern County Airport Land Use Compatibility Plan, would the project expose people residing or working in the project area to excessive noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

- a. Land uses determined to be “sensitive” to noise as defined by the Kern County General Plan include residential areas, schools, convalescent and acute care hospitals, parks and recreational areas, and churches. The Project site is located on Edwards AFB where loud noises related to aircraft and testing regularly occur. The nearest residence is located on Trotter Avenue, approximately 200 feet from the site boundary. Project construction has the potential to result in increased noise levels during the approximate 12 to 48-month construction period that may exceed local noise standards. This issue will be evaluated in the EIS/EIR.
- b. Ground-borne vibration and ground-borne noise could originate from earth movement during the construction phase of the Project. Significant vibration is typically associated with activities such as blasting or the use of pile drivers. Blasting would not be required during Project construction; however, pile drivers may be used. Project construction has the potential to result in exposure persons to excessive ground-borne vibration or ground-borne noise level during the approximate 12 to 48-month construction period that may exceed local noise standards. This issue will be evaluated in the EIS/EIR.



- c. Operation of the Project would not generate substantial noise increases above ambient conditions. The Project site is located on Edwards AFB where loud noises related to aircraft and testing regularly occur. The solar facility would require up to 10 personnel during operations. Traffic on the solar facility access roads would be for routine access and maintenance activities and would primarily consist of personal vehicles. Therefore, the majority of operations would not produce noise discernable above ambient conditions. This impact would be less than significant and no further analysis is warranted in the EIS/EIR.
- d. Heavy equipment used during construction would cause a temporary or periodic increase in ambient noise levels. The Project would also introduce temporary or periodic increases in ambient noise levels during the operational phase from general maintenance vehicles. Large heavy-haul transport equipment may be brought to the site, as needed, for equipment repair or replacement. However, the Project site is located on Edwards AFB where loud noises related to aircraft and testing regularly occur. Nevertheless, Project construction has the potential to expose nearby residences to increased noise levels that may exceed local noise standards during the approximate 12 to 48-month construction period. Therefore, this issue will be evaluated in the EIS/EIR.
- e. The Project site is located on Edwards AFB, which is a military aviation installation identified in the Kern County Airport Land Use Compatibility Plan. Also, a portion of the gen-tie line may be constructed within the Mojave Air and Space Port Airport Influence Area (Zones D, E1 and E2). The proposed solar facility does not involve the construction of residences. However, up to 10 employees would work at the proposed solar facility. Therefore, the Project has the potential to expose people working on the Project to excessive noise levels. This issue will be evaluated in the EIS/EIR.
- f. The Project site is not located in the vicinity of a private airstrip. Therefore, no impact would occur and no further analysis is warranted.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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POPULATION AND HOUSING.

Would the project:

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|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a. Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion:

- a. The proposed solar facility would require employing as many as 1,250 temporary construction workers. Construction workers are expected to travel to the site from various locations throughout Southern California; however, most would likely come from the existing labor pool in the general vicinity of the Project site. The number of workers anticipated to relocate to the surrounding area is not expected to be substantial. If temporary housing should be necessary, it is expected that accommodations would be available in the nearby communities of California City, Rosamond, Mojave, Tehachapi, or Lancaster. Therefore, the development of the Project would not directly or indirectly induce the development of any new housing or businesses. Operation of the Project would require up to 10 on-site staff. Existing housing stock would accommodate operations personnel should they relocate to the area.

Typically, established local thresholds of significance for housing and population growth pursuant to the *CEQA Guidelines*, Section 15064.7, include effects that would induce substantial growth or concentration of a population beyond County projections; alter the location, distribution, density, or growth rate of the population beyond that projected in the Kern County General Plan Housing Element; result in a substantial increase in demand for additional housing; or create a development that significantly reduces the ability of the County to meet housing objectives set forth in the housing element. The proposed solar facility would not result in the need for an increase in housing or impact Kern County’s housing objectives in accordance with the housing element allocation plan. Impacts would not occur.

Although the Project would produce additional electricity, it is intended to meet the demand for energy that is already projected based on growth in communities around California. As such, the generation of electricity by the Project would be considered growth-accommodating, rather than growth-inducing. In addition, state law requires utility companies to produce a certain percentage of electricity from



green or renewable sources. Solar electricity is considered a renewable product and would help the utility companies meet this new state law.

The Project's electricity would replace electricity generated by fossil fuels, thereby contributing to California's renewable energy goals, and would not contribute to induced growth. No significant impacts related to population growth are expected from the Project, and further analysis of this issue is not warranted in the EIS/EIR.

- b., c. The Project would be sited on lands that are currently undeveloped. No residences would be condemned and no people would be displaced by this Project. No impacts are expected and no further analysis is warranted.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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PUBLIC SERVICES.

Would the project:

- a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or to other performance objectives for any of the public services:

i) Fire protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) Police protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
v) Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion:

a.i. **Fire Protection.** Fire suppression and emergency medical services would be provided in the Project area by the Kern County Fire Department (KCFD). The Project site would be served by Kern County Fire Station #14, located at 1953 State Highway 58 in the community of Mojave, approximately 4.5 miles north of the proposed solar facility site. Adherence to all applicable regulations would reduce wildfire ignitions and prevent the spread of wildfires. Construction and operation activities may result in increased need for fire-fighting personnel and facilities in the area. Therefore, the potential impact on fire services from construction in a Local Responsibility Area and operation of the solar facility is potentially significant and will be evaluated in the EIS/EIR.

a.ii. **Police Protection.** Police protection services in the Project area are provided by the Kern County Sheriff's Department. The Project site would be served by the Mojave substation, located at 1771 State Highway 58, approximately 5.7 miles north of the solar facility site. Although the potential is low, the Project may attract vandals or other security risks, and construction activities could result in increases in traffic volumes along surrounding roads. On-site security would be provided and access to the areas surrounding the Project site would be limited during construction and operation, thereby minimizing the need for police surveillance. Nonetheless, the Project's impacts on sheriff services are potentially significant and will be evaluated in the EIS/EIR.

a.iii. **Schools.** Most Project-related construction workers would likely live in the Project area and commute to the site from surrounding communities where their children are already enrolled in school, and where



their contribution to local taxes funds the schooling of their children. Even if these workers came from out of the area, they would likely return to their out-of-town residences once the facilities were built and would not take their children out of their current schooling situation to relocate to the Project area. Therefore, substantial temporary increases in population that would adversely affect local school populations are not expected. Likewise, the up to 10 employees who would operate the Project are not expected to generate a permanent increase in population that would impact school populations. Therefore, no significant impacts to schools are anticipated to occur, and further analysis of this issue is not warranted in the EIS/EIR.

- a.iv. **Parks.** The population increase that would be experienced during the construction phase of the Project would be temporary and would not result in additional demand for park facilities. Operations personnel would include up to 10 employees. Therefore, no significant impacts to parks are anticipated to occur, and further analysis of this issue is not warranted in the EIS/EIR.

- a.v. **Other Public Facilities.** Most Project-related construction workers would likely live in the Project area and commute to the site from surrounding communities. Therefore, substantial temporary increases in population that would adversely affect local public facilities, such as post office, courthouse, and library services, are not expected. The Project would not require the appreciable use of other public facilities—such as libraries, courts, and Kern County services—that would result in a significant impact. Once constructed, the Project would employ up to 10 full time employees. The need for the Project operator to use other services in the future (such as the Kern County services for future endeavors) is speculative. The Project would have a less-than-significant impact on other public services, and further analysis of this issue is not warranted.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
RECREATION.				
Would the project:				
a. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

- a, b. The Project would not include new recreational facilities. The temporary increase of population during construction that might be caused by an influx of workers would be minimal. As a result, there would not be a detectable increase in the use of parks or other recreational facilities. No impacts would occur, and no further analysis is warranted.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
TRANSPORTATION AND TRAFFIC.				
Would the project:				
a. Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Conflict with an applicable congestion management program, including, but not limited to, level of service (LOS) standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?				
i. Metropolitan Bakersfield General Plan LOS "C"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii. Kern County General Plan LOS "D"	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

- a. Project construction would rely on the local circulation system for worker commutes and the delivery of construction materials. Construction-related traffic (including construction worker trips) could conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance



of the circulation system. Operation of the Project would require up to 10 employees, who would commute to the site and are not expected to generate significant traffic. A traffic land use analysis will be prepared, and potential impacts on the local roadway system from construction-related vehicle trips will be evaluated in the EIS/EIR.

- b. Construction of the Project would rely on the local circulation system for the up to 1,250 worker commutes and the delivery of construction materials. Construction-related traffic, including construction worker trips, could conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the County congestion management agency for designated roads or highways. Operation of the Project would require up to 10 employees, who would commute to the site and are not expected to generate significant traffic. A traffic analysis will be prepared, and potential impacts on the local roadway system from construction-related vehicle trips will be evaluated in the EIS/EIR.
 - i. The Project site is located outside of the Metropolitan Bakersfield General Plan Area, and the level of service (LOS) standards are not applicable to this Project. Although trips generated by the Project may be distributed throughout the Metropolitan Bakersfield General Plan Area, the anticipated minimal number of trips would not affect LOS standards. Further analysis of this issue is not warranted in the EIS/EIR.
 - ii. Construction of the Project would generate construction trips which could temporarily increase the daily traffic volumes on local roadways and intersections in Kern County. The employees required for operation and maintenance of the Project are expected to originate from the local area and would not result in a substantial number of trips on roadways in the metropolitan Bakersfield area or in other parts of Kern County. Therefore, the Project's impacts on Kern County's traffic/circulation system are anticipated to be less than significant; however, this issue will be further analyzed in the EIS/EIR.
- c. The Project site is located on Edwards AFB, which is a military aviation installation identified within the Kern County ALUCP. Potential changes in air traffic patterns and aviation safety risks will be analyzed in the EIS/EIR.
- d. Access to the Project would be from existing roads. No new design features would be introduced that would result in transportation-related hazards or safety concerns. However, the Project is located in a rural area and existing roads may not be designed to accommodate large construction equipment and construction traffic. Therefore, this issue will be further analyzed in the EIS/EIR.
- e. As described above, construction of the Project would generate construction trips that could temporarily increase the daily traffic volumes on local roadways and intersections. However, emergency access would be maintained at all times, and appropriate detours would be provided. Impacts to emergency access are anticipated to be less than significant but will be further analyzed in the EIS/EIR.
- f. As described above, construction of the Project would generate construction trips that could temporarily disrupt bicycle traffic on local roadways. However, due to the rural nature of the area, no bus stops or designated bicycle lanes exist on the roadways in the vicinity of the Project site. Therefore, the Project would comply with County policies, plans, and programs related to alternative transportation. Further analysis of this issue is not warranted in the EIS/EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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UTILITIES AND SERVICE SYSTEMS.

Would the project:

a. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Have sufficient water supplies available to serve the project from existing entitlements and resources, or would new or expanded entitlements be needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion:

- a. During construction, wastewater would be contained for up to 1,250 workers within portable toilet facilities and disposed of at an approved site. The Kern County Environmental Health Services Division is responsible for monitoring the use of portable toilet facilities, and a condition of approval would require the Project operator to provide documentation of a portable toilet pumping contract.

During operation, the proposed solar facility would include a septic system to handle wastewater generated on-site; however, with a maximum of up to 10 employees, the facility is not anticipated to



- generate substantial volumes of wastewater. Impacts would be less than significant; however, further analysis of this issue will be included in the EIS/EIR.
- b. The Project would include the construction of a septic system. Wastewater generation during operation is not expected to be significant, as the proposed solar facility would require a relatively small number of employees. The facilities' low demand for water and limited production of wastewater would not require the construction or expansion of water or wastewater treatment facilities. This impact would be less than significant; however, further analysis will be included in the EIS/EIR.
 - c. The proposed solar panels would create impervious surfaces and would require imported water for dust suppression during construction and the washing of panels. However, these changes are not anticipated to substantially increase the amount of stormwater runoff. The Project area does not rely on constructed stormwater drainage systems. As previously stated, the pattern and concentration of runoff could be altered by Project activities, such as grading of the site and roads, and must comply with the National Pollutant Discharge Elimination System (NPDES) through a Stormwater Pollution Prevention Plan (SWPPP) or other means to contain water on-site during construction. It is not anticipated that the amount of runoff across the Project site would be substantially altered. Therefore, the Project is not expected to overwhelm existing stormwater drainage systems or create substantial additional sources of polluted runoff. However, further analysis of this issue will be included in the EIS/EIR.
 - d. It is anticipated that up to 1,000 acre-feet per year of water would be required during the construction phase for concrete manufacturing, dust control, and sanitary use. To the extent available, tertiary treated water would be used for non-potable uses from the Rosamond Community Services District, or would be trucked to the site. Project operations would require up to 27 acre-feet of water per year that would be purchased from the Rosamond Community Services District or would be trucked to the site. Impacts related to water use would be potentially significant, and further analysis of this issue will be included in the EIS/EIR.
 - e. The Project would include construction of a septic system and all wastewater would be handled on-site. Therefore, no impacts to any existing wastewater treatment facilities would occur, and further analysis of this issue is not warranted in the EIS/EIR.
 - f. The Project is not expected to generate a significant amount of waste that would exceed the capacity of local landfills. Materials brought to the Project site would be used to construct facilities, and few residual materials are expected. Non-hazardous construction refuse and solid waste would be either collected and recycled or disposed of at a local landfill, while any hazardous waste generated during construction would be disposed of at an approved location. It is not anticipated that the amount of solid waste generated by the Project would exceed the capacity of local landfills. Impacts are anticipated to be less than significant; however, further analysis of this issue will be included in the EIS/EIR.
 - g. The Project would generate solid waste during construction and operation, thus requiring the consideration of waste reduction and recycling measures. The 1989 California Integrated Waste Management Act (AB 939) requires Kern County to attain specific waste diversion goals. In addition, the California Solid Waste Reuse and Recycling Access Act of 1991, as amended, requires expanded or new development projects to incorporate storage areas for recycling bins. The Project would comply with the 1989 California Integrated Waste Management Act and the 1991 California Solid Waste Reuse and Recycling Access Act of 1991, as amended. Therefore, impacts are anticipated to be less than significant; however, further analysis of this issue will be included in the EIS/EIR.



	Potentially Significant Impact	Potentially Significant Impact Unless Mitigated	Less Than Significant Impact	No Impact
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MANDATORY FINDINGS OF SIGNIFICANCE

- a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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- b. Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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- c. Does the project have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Discussion:

- a. The EIS/EIR’s biological and cultural resources sections will discuss specific Project impacts on plants and wildlife and historical resources. The document will also evaluate the Project’s contribution to cumulative resource impacts and propose mitigation that is designed to reduce the impacts to less-than-significant levels, where feasible.
- b. The Project has the potential to cumulatively contribute to aesthetics, air quality, biological resources, cultural resources, geology, greenhouse gas emissions, hydrology, land use, mineral resources, noise, public services, and traffic/transportation impacts. The EIS/EIR will evaluate the Project’s contribution to cumulative impacts in these and other resource areas.
- c. Although there may be significant air quality impacts during construction, the long-term air quality impacts could be beneficial if fossil fuel use is reduced. The Project’s short-term cumulative contribution to air quality impacts will be evaluated in the EIS/EIR.

A2. USFWS Biological Opinion



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, California 93003

IN REPLY REFER TO:
08EVEN00-2014-F-0123

March 11, 2014

412 CE/CL
James E. Judkins
Base Civil Engineer
225 North Rosamond Boulevard
Edwards Air Force Base, California 93524

Subject: Biological Opinion for Operations and Activities at Edwards Air Force Base,
California (8-8-14-F-14)

Dear Mr. Judkins:

This document transmits the U.S. Fish and Wildlife Service's (Service) biological opinion regarding the effects on the federally threatened desert tortoise (*Gopherus agassizii*) and its critical habitat, in accordance with section 7 of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.), of all identified existing and future similar actions that are likely to occur on Edwards Air Force Base. This document also describes the criteria by which the U.S. Air Force will determine whether its actions are likely to adversely affect the desert tortoise or its critical habitat and our concurrence with actions that are undertaken within the framework of these criteria. We received your request for formal consultation on February 22, 2008.

This biological opinion is based on information which accompanied your request for consultation, conversations and correspondence with Edwards Air Force Base staff, and information contained in our files. A complete record of this consultation can be made available at the Ventura Fish and Wildlife Office.

Consultation History

Since 1990, the Air Force and Service have consulted formally on the effects of Air Force actions on the desert tortoise and its critical habitat 49 times; we have consulted informally on other actions. To date, we have completed consultations on a wide range of activities and uses, including recreational activities, construction and maintenance of infrastructure, remediation of contaminated sites, black box projects, and disposal of unstable rocket fuel. Prior to the initiation of formal consultation, staff from the Air Force and Service discussed the basic concepts of this base-wide consultation informally on several occasions.

On January 30, 2014, the Service (2014) provided the Air Force with a draft biological opinion. The Air Force (2014b) provided comments on the draft biological opinion on March 4, 2014; we have incorporated the Air Force's comments into this biological opinion, as appropriate.

ADMINISTRATION OF THE CONSULTATION

Future actions that may affect the desert tortoise or its critical habitat at Edwards Air Force Base will be evaluated in the following manner. The Environmental Management Office at Edwards Air Force Base will review all discretionary actions that the Air Force proposes on Edwards Air Force Base. Based on the nature of the activity, its potential to adversely affect desert tortoises or their critical habitat, and any measures that can be implemented to avoid or minimize the effect, the Air Force will determine whether the action will not affect, is not likely to adversely affect, or is likely to adversely affect the desert tortoise or its critical habitat.

The Air Force will maintain a record of all its activities that undergo this evaluation. For actions that do not affect or are not likely to adversely affect the desert tortoise or its critical habitat, the Air Force will include in its record:

1. The title of the action;
2. A description of the proposed action;
3. Location;
4. Size; and
5. The rationale that it used to reach its determination regarding effects to the desert tortoise or its critical habitat.

For actions that are likely to adversely affect the desert tortoise or its critical habitat, the Air Force will include in its record:

1. The title of the action;
2. A description of the proposed action;
3. Location;
4. Size;
5. The number of desert tortoises that are killed, injured, and moved from harm's way;
6. The amount of habitat disturbed or lost, with a notation as to whether the affected area was designated critical habitat;
7. A listed of authorized biologists who worked on actions covered by this consultation in the reporting year; and
8. A brief but comprehensive discussion of whether the protective measures were effective. If the measures were not effective, the Air Force will explain why the measures did not function as expected and recommendations for implementing more effective measures.

In past consultations with the Air Force, the Service has authorized biologists to implement protective measures and handle desert tortoises on a project-by-project basis. Upon completion of this consultation, the Air Force will not request such authorization on a project-by-project basis. From this point, any person that is approved by the Service to undertake the duties of an authorized biologist for actions proposed by the Air Force that are covered by this biological

opinion may also perform those duties on future actions. If the Air Force determines that an authorized biologist is not performing his or her duties in a satisfactory manner, the Air Force will notify the Service at the earliest possible time it makes this determination.

The Service and Air Force agree that some actions may be proposed in the future that may result in effects beyond the scope of those considered in this biological opinion. In the case of such actions, the Air Force and Service will discuss whether this biological opinion sufficiently considered effects to the desert tortoise and its critical habitat in light of the proposed action and whether re-initiation of formal consultation or initiation of a separate consultation is appropriate.

If staff from the Service and Air Force cannot agree on a course of action after discussions on this or other issues, any disagreement will be elevated to the Ventura Fish and Wildlife Office's Assistant Field Supervisor and the Air Force Civil Engineer Director and/or Environmental Management Division Chief for resolution. If further elevation is required, the Field Supervisor of the Ventura Fish and Wildlife Office and the Installation Commander of Edwards Air Force Base will be contacted to resolve the issue. Although the elevation of issues is likely to be an infrequent occurrence, the Air Force and Service consider this procedure to be a useful tool to maintain efficient processes and a healthy working relationship between our agencies.

The Air Force will provide the Service with an annual report of the activities that it conducts under the auspices of this consultation. The annual report will include the information that the Air Force will maintain in its records for any activity it determined was likely to adversely affect the desert tortoise or its critical habitat, as described in this section. The annual report will be provided to the Service by January 31 of each year this biological opinion is in effect.

The annual report will also contain information on conservation activities that the Air Force undertook in the previous year. Such activities may include, but are not limited to, acquisition of land through the Readiness and Environmental Preparedness Initiative, results of research on desert tortoises conducted or funded by the Air Force, and the results of relevant research conducted under the Air Force's Small Business Initiative.

The Ventura Fish and Wildlife Office's Assistant Field Supervisor, the Air Force Civil Engineer Director and/or Environmental Management Division Chief, and appropriate staff will meet annually to review how this consultation is functioning and to discuss any potentially important events in the upcoming year. This meeting could be held in conjunction with the quarterly meeting of the Desert Managers Group that occurs nearest the time the annual report is due. If the Service and Air Force agree that such a meeting is unnecessary in any given year, the meeting may be cancelled.

Criteria for Use in Reaching Appropriate Determinations

The Air Force will use the following outline to determine the appropriate level of consultation required for each proposed action.

- 1) Projects in which any effects would occur outside of desert tortoise habitat would have no effect on the species; the Air Force will document its determinations in these situations for its own records but would not need to contact the Ventura Fish and Wildlife Office. If the Air Force requires technical assistance from the Service to determine if suitable habitat for desert tortoises would be affected, it should contact us by phone or electronic mail.
- 2) If the following criteria are met, a determination of not likely to adversely affect the desert tortoise would be appropriate:
 - a) The project is within habitat of the desert tortoise;
 - b) Desert tortoise habitat is present, but degraded or disturbed, in the project area. For the purposes of this consultation, the Air Force and Service consider degraded habitat to be that habitat which has been affected by previous activities. Degraded habitat will generally exhibit a lower diversity and density of native shrubs and disrupted substrates than undisturbed habitat. The Air Force and Service may consider certain washes to be disturbed habitat; the fundamental guidance in such areas is that the evidence of the maintenance activity would no longer be visible after an event where water flows in the wash. The loss or disturbance of a minor amount of undisturbed habitat may also be considered as being not likely to adversely affect the species, when considered with regard to its distribution in the action area; and
 - c) Neither desert tortoises nor their diagnostic sign are observed during surveys or a habitat assessment.

In cases where a determination is not entirely clear from a verbal description, the Air Force will provide the Service with a photograph (aerial or otherwise, as appropriate) of the project site to assist in its determination.

- 3) If the following criteria are met, a determination of not likely to adversely affect critical habitat for the desert tortoise would be appropriate:
 - a) The project is within designated critical habitat, but the primary constituent elements of desert tortoise critical habitat are not present;
 - b) The primary constituent elements would not be affected by the proposed project; or
 - c) Effects to the primary constituent elements would be so minor that they are not substantially measurable when considered within the context of the critical habitat unit. Such effects may occur, for example, when a narrow strip of land supporting the primary constituent elements of critical habitat at the edge of an existing road may be affected by an action.

BIOLOGICAL OPINION

DESCRIPTION OF THE PROPOSED ACTION

The Air Force requested consultation on a variety of mission support actions, including recurring and predicted new projects and future unknown projects. For this biological opinion, we worked with the Air Force to assess the threats to desert tortoises and their critical habitat associated with each type of proposed activity. Future actions under the control of the Air Force are expected to cause impacts that are similar to those discussed in the biological evaluation. The following table lists the Air Force’s activities and notes the general manner by which the activity would affect the desert tortoise and its critical habitat (e.g., ground disturbance, use of roads, etc.). We will then consider more specifically the nature of these effects on the desert tortoise and its critical habitat and the measures that the Air Force has proposed to avoid, reduce, or minimize these effects. The biological evaluation contains a more detailed description of its proposed activities (Air Force 2008a).

Table 1 - Threats and Associated Activities of Proposed Action

		Driving off-road	Driving on road	Ground Disturbance	Explosions (potential for fire)	Non-native Plants	Common Ravens	Moving desert tortoise from harm	Personnel on Foot	Habitat Conversion
Range Flight Operations	Desert tortoise	N	Y	Y	Y	N	N	N	N	N
	Critical Habitat	N	Y	Y	Y	N	N	N	N	N
Airfield Flight Operations	Desert tortoise	N	N	N	N	N	N	N	N	N
	Critical Habitat	N/A								
Range Ground Operations	Desert tortoise	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Critical Habitat	Y	Y	Y	Y	Y	Y	Y	Y	Y
Directed Energy Operations	Desert tortoise	N	Y	N	Y	N	N	N	Y	N
	Critical Habitat	N	Y	N	Y	N	N	N	Y	N
Ordnance Expenditures	Desert tortoise	Y	Y	Y	Y	N	N	Y	Y	N
	Critical Habitat	Y	Y	Y	Y	N	N	Y	Y	N
Energetic Material Expenditures	Desert tortoise	N	Y	N	Y	N	N	Y	Y	N
	Critical Habitat	N	Y	N	Y	N	N	Y	Y	N
Native American Uses	Desert tortoise	N	Y	N	N	N	N	N	N	N
	Critical Habitat	N	Y	N	N	N	N	N	N	N
Research and Education	Desert tortoise	N	Y	N	N	N	N	Y	Y	N
	Critical Habitat	N	Y	N	N	N	N	Y	Y	N
Recreation	Desert tortoise	Y	Y	N	N	N	N	Y	Y	N
	Critical Habitat	N/A								
Feral Grazing Management	Desert tortoise	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Critical Habitat	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Monitoring	Desert tortoise	Y	N	Y	N	N	Y	Y	Y	Y
	Critical Habitat	Y	N	Y	N	N	Y	Y	Y	Y
Inventories/Surveys	Desert tortoise	Y	N	Y	N	Y	Y	N	Y	N
	Critical Habitat	Y	N	Y	N	Y	Y	N	Y	N
Utility Maintenance	Desert tortoise	Y	Y	Y	Y	N	N	Y	Y	N
	Critical Habitat	Y	Y	Y	Y	N	N	Y	Y	Y
Fire Management	Desert tortoise	Y	Y	Y	N	N	N	Y	Y	N
	Critical Habitat	Y	Y	Y	N	N	N	Y	Y	Y
Future Development	Desert tortoise	Y	Y	Y	N	Y	Y	Y	Y	Y
	Critical Habitat	Y	Y	Y	Y	Y	Y	Y	Y	Y

Y = Associated activity may affect the desert tortoise or its critical habitat in this manner. (Activities would affect critical habitat and habitat not designated as critical in the same basic manner; however, we do not consider effects to non-critical habitat in assessing whether a proposed action is likely to destroy or adversely modify critical habitat.)

N = Associated activity does not affect the desert tortoise or its critical habitat.

N/A = Associated activity does not occur in area of concern (desert tortoise habitat or critical habitat).

The Air Force anticipates that it may need 20,000 acres for future development of solar facilities, infrastructure, and mission activities and operations. The Air Force estimates that up to 5,000 acres of new disturbance may occur within critical habitat and 15,000 acres may occur outside of critical habitat. The Air Force would manage desert tortoises during the course of future development by following its integrated natural resources management plan.

The construction and operation of the Oro Verde Solar Project would occur within the boundaries of Edwards Air Force Base; this solar plant would require an interconnecting power line (gen-tie line) to the Windhub Substation, which lies to the northwest of base. For this reason, the Air Force requested that the Service also consider the effects of the construction and operation of the gen-tie line on the desert tortoise in this biological opinion. (The gen-tie line would not affect critical habitat; the nearest critical habitat for the desert tortoise is approximately 20 miles to the east of the easternmost portion of the gen-tie line.) The method used to construct the gen-tie line would occur in a manner similar to how the Air Force (or service companies operating within the base) would maintain utilities, although the impacts of construction would be more intense than would occur during maintenance.

To ensure that its activities do not result in numerous injuries to or mortalities of desert tortoises, the Air Force has proposed a set of thresholds that, if reached, will prompt additional action on its part to protect desert tortoises (Reinke 2009, Mull 2013a). If a desert tortoise is injured or killed in a calendar year, the Air Force will retrain those individuals that were responsible for implementing the activity, determine how to avoid future injuries or mortalities, and implement appropriate measures to reduce the number of future injuries or mortalities. The Air Force will also determine the root cause of the activities that resulted in the injury or mortality, determine appropriate measures to reduce, to the maximum extent possible, future injury or mortality, and obtain the Service's concurrence on implementation of the measures. Finally, the Air Force has proposed to re-initiate formal consultation if five desert tortoises are killed or injured in a calendar year.

The Air Force has also proposed to re-initiate formal consultation if the amount of desert tortoise habitat disturbed by its activities reaches 15,000 acres in the portion of Edwards Air Force Base that is outside of the boundaries of critical habitat. For the portion of the base within the boundaries of critical habitat, the Air Force has proposed to re-initiate formal consultation if the amount of desert tortoise habitat disturbed by its activities reaches 5,000 acres. The Air Force has been restoring lands disturbed by its activities so that these areas can support their ecological functions; the Air Force has also proposed to evaluate the effectiveness of its restoration activities and to subtract the acreage of restored habitat from the acreage of disturbed habitat as it monitors the activities it conducts under the auspices of this consultation. For example, if, in any given year, the Air Force disturbs 10 acres during its activities and restores 3 acres, the cumulative loss of habitat for the year would be 7 acres. For the purposes of tracking whether re-initiation is required, the Air Force will track the amount of habitat disturbed and restored upon completion of this biological opinion. Previously disturbed areas are not considered to be desert tortoise habitat for the purpose of tracking habitat loss; for example, any disturbance within the bed of an unpaved road would not be considered disturbance of desert tortoise habitat

because the biological and physical attributes of habitat are generally absent from such disturbed areas.

Adaptive Management Strategy

The Air Force has proposed three primary goals for its adaptive management strategy: 1) ensure that mission-related activities are conducted in compliance with Federal and State natural resource and other environmental legislation; 2) assess and monitor populations of listed, proposed, and sensitive species and general habitat conditions over time; and 3) ensure the long-term viability of desert tortoise populations within the Fremont-Kramer Desert Wildlife Management Area, while fully supporting the military mission at Edwards Air Force Base (Air Force 2008a). These goals apply to the annual and 5-year revisions of Edwards Air Force Base's integrated natural resources management plans.

Protective Measures

The Air Force has implemented a set of standardized minimization measures derived from numerous biological opinions to protect desert tortoises and conserve their habitat. These measures are applied selectively through the National Environmental Policy Act process via the Air Force Environmental Impact Analysis Process for each ground-disturbing action. The Air Force will continue implementing these minimization measures in the future as new types of projects occur in new areas that are expected to have similar impacts from mission activities.

- a. Desert tortoises will be handled in full accordance with all applicable provisions and regulations of the Endangered Species Act. The phrases "authorized biologist" and "desert tortoise monitor", as used in this section are taken from the most up-to-date Service guidance (Service 2010a) and defined as follows:
 1. Authorized biologists must have thorough and current knowledge of desert tortoise behavior, natural history, ecology, and physiology, and demonstrate substantial field experience and training to safely and successfully conduct their required duties. Authorized biologists are approved to monitor project activities within desert tortoise habitat and are responsible for locating desert tortoises and their sign (i.e., conduct clearance surveys). Authorized biologists must ensure proper implementation of protective measures, and make certain that the effects of the project on the desert tortoise and its habitat are minimized in accordance with a biological opinion or incidental take permit. All incidents of noncompliance in accordance with the biological opinion or permit must be recorded and reported.
 2. Desert tortoise monitors will be approved by the authorized biologist to monitor project activities within desert tortoise habitat, ensure proper implementation of protective measures, and record and report desert tortoise and sign observations in accordance with approved protocol. They will report incidents of noncompliance in accordance with a biological opinion or permit, move desert tortoises from harm's way when desert tortoises enter project sites and place these animals in "safe areas"

pre-selected by authorized biologists or maintain the desert tortoises in their immediate possession until an authorized biologist assumes care of the animal. Desert tortoise monitors assist authorized biologists during surveys and serve as "apprentices" to acquire experience. Monitors should not conduct clearance surveys or other specialized duties of the authorized biologist unless directly supervised by an authorized biologist; "directly supervised" means the authorized biologist has direct voice and sight contact with the monitor. The desert tortoise monitor may directly supervise other personnel to assist with surveying for desert tortoises when deemed necessary.

3. None of the proposed measures will prohibit any individual from handling a desert tortoise when necessary to protect the safety or health of the animal.
 - b. Authorized biologists are the only individuals approved to handle desert tortoises on base. The Service's standardized form will be used for individuals to work on specific projects to verify the capabilities and experience of the potential desert tortoise biologist.
 - c. All base personnel (including contractors, civilian, and military employees) will be provided, at a minimum, a description of the desert tortoise, its status, and measures to minimize impacts. The material may also include the use of a multimedia presentation (videotape and printed material).
 - d. To the maximum extent practicable, activities will be sited to avoid effects to desert tortoises and their habitat.
 - e. Personnel will immediately report sightings of desert tortoises or sign found in the project area to the authorized biologist, desert tortoise monitor, or the Environmental Management Office.
 - f. Pre-activity surveys will be conducted, where deemed necessary, in project areas prior to ground-disturbing activities.
 - g. The project work areas will be fenced, flagged, or marked to define the limit of project activities.
 - h. Vehicles will generally remain on previously established roads and within staging areas and follow flagged off road routes that have been surveyed or cleared of desert tortoises. When driving off road, operators will minimize disturbance to vegetation and not exceed 10 miles per hour. All personnel will inspect under vehicles for desert tortoises prior to operating them in desert tortoise habitat.
 - i. Open excavations will be checked three times a day and authorized personnel will remove any trapped animals. Open excavations will be covered, backfilled, or fenced at the end of each workday. At the ends of a ditch or trench, a 3:1 slope will be created to allow wildlife to exit should they become trapped in the ditch or trench. All open excavations that are left unattended will be fenced, unless other methods of excluding desert tortoises are employed.

- j. Any pipes left or stored on the ground in the project area will be capped on the ends to prevent entry by desert tortoises or other wildlife.
- k. Parking and staging areas will be restricted to previously disturbed areas as much as possible.
- l. Acres of disturbance will be tracked to provide a basis for possible future re-vegetation and restoration efforts.
- m. All trash and food items will be disposed of in common raven-proof containers, and regularly removed from project sites to reduce attraction of common ravens.
- n. Project activities between dusk and dawn will be confined to areas free of vegetation and cleared of desert tortoises by authorized personnel.
- o. An annual report will be submitted to the Service summarizing any injury, mortality, or handling of desert tortoises, disturbance of critical habitat, and habitat restoration.

Other Measures Implemented for Specific Activities

The following minimization measures are being implemented to aid overall management of the desert tortoise on base.

Motorized Recreation Areas

- a. Signs will be maintained along the designated off-road vehicle area boundaries.
- b. Bulletin boards displaying up-to-date rules and safety information will be placed at the main access areas at each off-road vehicle area.
- c. Law Enforcement personnel will patrol the areas to ensure that riders remain within the boundaries and use existing trails.
- d. All operators of motor vehicles will take desert tortoise awareness training and carry proof of training when riding.
- e. Environmental Management will monitor and record habitat disturbance. Solutions to problems that may develop will be suggested by the off-road vehicle area subcommittee and implemented by the Air Force.

Non-motorized Recreation Areas

- a. Signs, notices, and other media will be used to inform personnel that use of off-road vehicle area 3 requires desert tortoise awareness training.

- b. Desert tortoises crossing trails will not be moved; bikers and joggers will wait until the desert tortoise moves off the trail.
- c. Activities will occur on established trails.
- d. Pets not on leashes will not be allowed in the non-motorized recreation area.

Road Construction and Maintenance

- a. All drainage recontouring will be limited to the greatest extent possible to reduce habitat fragmentation, where practicable.
- b. Maintenance of drainage ditches will not be altered to change the direction of stormwater runoff from existing conditions to avoid potential flooding of desert tortoise burrows downslope of maintenance activities to the greatest extent possible.
- c. Herbicide applicators will be instructed to watch for desert tortoises on road shoulders and to take precautions, as necessary, to ensure that no desert tortoises are sprayed.
- d. Fugitive dust generated during construction will be controlled with water; the amount of water used will be restricted to the minimum amount required to maintain air quality standards.
- e. Water tanks and trucks will be maintained in good working order and free of leaks so common ravens will not be attracted to standing water.
- f. Installation of fencing along roadways will be implemented in areas deemed hazardous to desert tortoises to prevent injury or mortality.

Utilities

- a. Aboveground gas lines will be placed at least 18 inches aboveground when they traverse desert tortoise habitat.
- b. If, at any time after installation, the height of the gas pipes above the ground has been reduced to less than 18 inches, the pipelines will either be raised or the materials causing the reduction will be removed.
- c. Lands above underground utilities will be re-vegetated unless a road needs to be constructed and maintained for access and maintenance activities.
- d. Roads needed for utility maintenance will be concentrated in previously established corridors when possible.
- e. Underground utilities will be located adjacent to or within previously disturbed areas when possible.

Re-vegetation

- a. Habitat restoration required under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended under the Superfund Amendments and Reauthorization Act of 1986 for mission related ground disturbance would include using techniques to control soil erosion that have been proven successful in the desert environment and will also include use of native plants and seeds in an attempt to mimic natural biodiversity.
- b. Priority for re-vegetation will be given to desert tortoise critical habitat.
- c. Restoration activities will be conducted in accordance with the re-vegetation plans prepared by Edwards Air Force Base (Air Force 1994; Air Force 2012) and any new scientifically proven methodology.
- d. Monitoring success of efforts will be implemented for a longer period than the standard 5-year monitoring period due to slow recovery rates of re-vegetated areas in the desert.

Management of Common Ravens

The Air Force will implement protective measures to reduce the adverse effects associated with predation of desert tortoises by common ravens. In general, the Air Force proposes to manage common ravens by controlling the use of landfills and sewage ponds, designing facilities to discourage common raven use, minimizing or eliminating food and water subsidies, providing training to on-site personnel, monitoring the presence of common ravens and their use of subsidies, and studying common raven predation on juvenile tortoises. The biological evaluation (Air Force 2008a) and integrated natural resource management plan (Air Force 2008b) contain more detailed information on these management actions.

Relocation of Desert Tortoises

In the event that future development or activities would result in the clearing of a large area of suitable desert tortoise habitat, the Air Force would relocate desert tortoises from these sites to other habitat. The Air Force will monitor all translocated desert tortoises to determine the success of the relocation.

Monitoring of the Desert Tortoise Population

Since 1988, Environmental Management has conducted numerous surveys for desert tortoises. The Air Force monitors desert tortoise populations using data collected by researchers and consultants who conduct studies or monitor projects on base. The Air Force uses these data to update database files and various Geographic Information System databases and spreadsheets to facilitate effective management of desert tortoises on base. It will thoroughly analyze and evaluate existing data and provide an up-to-date status of the current estimated distribution,

abundance, and trends of the on-base population of desert tortoises. Currently, the density of the tortoise population on base is unknown.

Long-Term Monitoring of Ecological Trends

The protection, restoration, and conservation of desert habitat are an ongoing management process at Edwards Air Force Base. One key component of this process is the ability to check progress against established benchmarks and use this information to develop effective management strategies that are expected to change over time. As part of the habitat quality analysis studies initiated at Edwards Air Force Base in 1992, the Air Force established 60 long-term monitoring plots to determine baseline conditions of habitat quality and to monitor long-term trends of habitat quality and species diversity. Periodic vegetation and wildlife surveys provide the benchmarks to evaluate environmental change. Each restored area is analyzed in comparison to 3 or 4 study sites with similar habitat characteristics (Reinke 2013). Information obtained from the long-term study plots and natural restoration are also used to determine habitat stability and support the regional desert tortoise recovery effort and the goals and objectives of Edwards Air Force Base's integrated natural resources management plan (Air Force 2008b).

The primary purpose of the integrated natural resources management plan for Edwards Air Force Base is "to implement natural resource management practices that strive to maintain or enhance habitat quality of the installation's natural resources resulting in stabilizing and/or increasing the biodiversity of the desert environment" (Air Force 2008b). The Air Force intends to achieve this purpose through the goals identified in the integrated natural resources management plan, which include but are not limited to monitoring of natural resources, collection of data, management of invasive species, conservation of habitat, and increasing the environmental awareness of all base personnel. The integrated natural resources management plan calls for the meeting of these goals "... in concert with other base organizations, and their programs and plans while ensuring no net loss to the capability of the military mission" (Air Force 2008b).

ANALYTICAL FRAMEWORK FOR THE JEOPARDY AND ADVERSE MODIFICATION DETERMINATIONS

Jeopardy Determination

Section 7(a)(2) of the Endangered Species Act requires that Federal agencies ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of listed species. "Jeopardize the continued existence of" means to engage in an action that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species (50 Code of Federal Regulations 402.02).

The jeopardy analysis in this biological opinion relies on four components: (1) the Status of the Species, which describes the range-wide condition of the desert tortoise, the factors responsible for that condition, and its survival and recovery needs; (2) the Environmental Baseline, which analyzes the condition of the desert tortoise in the action area, the factors responsible for that

condition, and the relationship of the action area to the survival and recovery of the desert tortoise; (3) the Effects of the Action, which determine the direct and indirect impacts of the proposed Federal action and the effects of any interrelated or interdependent activities on the desert tortoise; and (4) the Cumulative Effects, which evaluate the effects of future, non-federal activities in the action area on the desert tortoise.

In accordance with policy and regulation, the jeopardy determination is made by evaluating the effects of the proposed federal action in the context of the current status of the desert tortoise, taking into account any cumulative effects, to determine if implementation of the proposed action is likely to cause an appreciable reduction in the likelihood of both the survival and recovery of the desert tortoise in the wild.

Adverse Modification Determination

Section 7(a)(2) of the Endangered Species Act requires that Federal agencies ensure that any action they authorize, fund, or carry out is not likely to result in the destruction or adverse modification of the critical habitat of listed species. This biological opinion does not rely on the regulatory definition of “destruction or adverse modification” of critical habitat at 50 Code of Federal Regulations 402.02. Instead, we have relied on the statutory provisions of the Act to complete the following analysis with respect to critical habitat.

In accordance with policy and regulation, the adverse modification analysis in this biological opinion relies on four components: (1) the Status of Critical Habitat, which describes the range-wide condition of designated critical habitat for the desert tortoise in terms of primary constituent elements, the factors responsible for that condition, and the intended recovery function of the critical habitat overall; (2) the Environmental Baseline, which analyzes the condition of the critical habitat in the action area, the factors responsible for that condition, and the recovery role of the critical habitat in the action area; (3) the Effects of the Action, which determines the direct and indirect impacts of the proposed Federal action and the effects of any interrelated and interdependent activities on the primary constituent elements and how that will influence the recovery role of the affected critical habitat units; and (4) Cumulative Effects, which evaluates the effects of future non-federal activities in the action area on the primary constituent elements and how that will influence the recovery role of affected critical habitat units.

For purposes of the adverse modification determination, the effects of the proposed Federal action on the critical habitat of the desert tortoise are evaluated in the context of the range-wide condition of the critical habitat, taking into account any cumulative effects, to determine if the critical habitat range-wide would remain functional (or would retain the current ability for the primary constituent elements to be functionally established in areas of currently unsuitable but capable habitat) to serve its intended recovery role for the desert tortoise.

STATUS OF THE DESERT TORTOISE AND CRITICAL HABITAT

Status of the Desert Tortoise

Section 4(c)(2) of the Act requires the Service to conduct a status review of each listed species at least once every five years. The purpose of a 5-year review is to evaluate whether or not the species' status has changed since it was listed (or since the most recent 5-year review); these reviews, at the time of their completion, provide the most up-to-date information on the range-wide status of the species. For this reason, we are appending the 5-year review of the status of the desert tortoise (Appendix 1; Service 2010b) to this biological opinion and are incorporating it by reference to provide most of the information needed for this section of the biological opinion. The following paragraphs provide a summary of the relevant information in the 5-year review.

In the 5-year review, the Service discusses the status of the desert tortoise as a single distinct population segment and provides information on the Federal Register notices that resulted in its listing and the designation of critical habitat. The Service also describes the desert tortoise's ecology, life history, spatial distribution, abundance, habitats, and the threats that led to its listing (i.e., the 5-factor analysis required by section 4(a)(1) of the Act). In the 5-year review, the Service concluded by recommending that the status of the desert tortoise as a threatened species be maintained.

With regard to the status of the desert tortoise as a distinct population segment, the Service concluded in the 5-year review that the recovery units recognized in the original and revised recovery plans (Service 1994a and 2011a, respectively) do not qualify as distinct population segments under the Service's distinct population segment policy (61 Federal Register 4722; February 7, 1996). We reached this conclusion because individuals of the listed taxon occupy habitat that is relatively continuously distributed, exhibit genetic differentiation that is consistent with isolation-by-distance in a continuous-distribution model of gene flow, and likely vary in behavioral and physiological characteristics across the area they occupy as a result of the transitional nature of, or environmental gradations between, the described subdivisions of the Mojave and Colorado deserts.

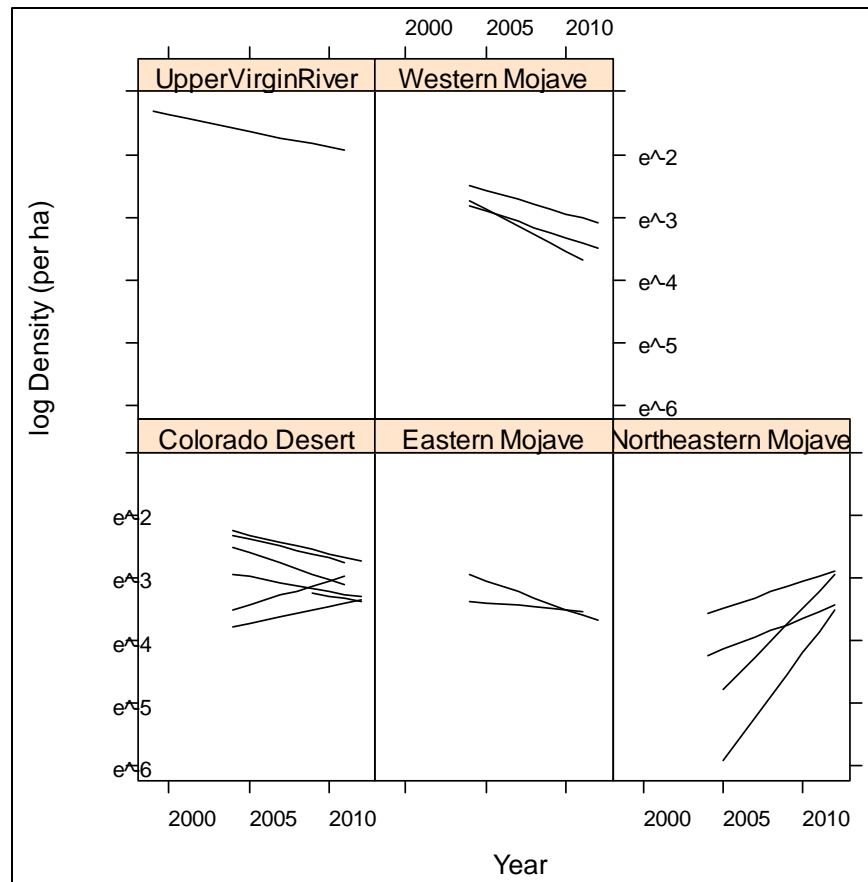
In the 5-year review, the Service summarizes information with regard to the desert tortoise's ecology and life history. Of key importance to assessing threats to the species and to developing and implementing a strategy for recovery is that desert tortoises are long lived, require up to 20 years to reach sexual maturity, and have low reproductive rates during a long period of reproductive potential. The number of eggs that a female desert tortoise can produce in a season is dependent on a variety of factors including environment, habitat, availability of forage and drinking water, and physiological condition. Predation seems to play an important role in clutch failure. Predation and environmental factors also affect the survival of hatchlings.

In the 5-year review, the Service also discusses various means by which researchers have attempted to determine the abundance of desert tortoises and the strengths and weaknesses of those methods. Due to differences in area covered and especially to the non-representative

nature of earlier sample sites, data gathered by the Service's current range-wide monitoring program cannot be reliably compared to information gathered through other means at this time.

The Service provides a summary table of the results of range-wide monitoring, initiated in 2001, in the 5-year review. This ongoing sampling effort is the first comprehensive attempt to determine the densities of desert tortoises across their range. Table 1 of the 5-year review provides a summary of data collected from 2001 through 2007; we summarize data from the 2008 through 2012 sampling efforts in subsequent reports (Service 2012a, 2012b, 2012c, 2012d).

The Service's Desert Tortoise Recovery Office (2014) used annual density estimates to compare a set of models that describe abundance patterns based on linear and quadratic response over time, spatial variation between desert tortoise conservation areas (e.g., national parks, desert wildlife management areas, the Desert Tortoise Natural Area, etc.) and recovery units, and survey team experience. The best model describing range-wide patterns in desert tortoise densities indicated different linear trends in different recovery units (see following figure); an effective training program precluded effects of surveyor experience or the lack thereof. In the original recovery plan for the desert tortoise, the Service (1994a) expected monitoring to detect increasing population trends of no more than 2 percent per year over a 25-year period. The Service has found much larger annual increases (greater than 19.7 percent) in the Northeastern Mojave Recovery Unit since 2004, with the rate of increase apparently resulting from increased survival of adults and subadults moving into the adult size class. The weight of evidence indicates that populations in the other 4 recovery units are declining: Upper Virgin River (-5.1 percent), Eastern Mojave (-5.8 percent), Western Mojave (-9.8 percent), and Colorado Desert (-2.4 percent; however, 2 desert tortoise conservation areas within this unit seem to be increasing).



Allison (2013) also evaluated changes in size distribution of desert tortoises since 2001. In the Western Mojave, Eastern Mojave, and Colorado Desert recovery units, the median size of large individuals has increased, indicating less recruitment of younger (therefore smaller) desert tortoises. In the Western Mojave and Colorado Desert recovery units, the relative number of smaller desert tortoises is about half what it was in 2001. Taken together, these trends suggest fewer small desert tortoises are reaching sexual maturity, which may be explained because they comprise a smaller proportion of the population or possibly because their survival rates are relatively lower than those of adults. Either possibility indicates that smaller size classes, like adults, are affected by ongoing threats; however, because most small desert tortoises die before reaching 180 millimeters in length, we do not know whether the reduced number of small animals has directly contributed to the observed declining trends in adults. For instance, a small increase in adult mortality would have a much larger effect on adult densities. None of these demographic rates have been measured in parallel with this study, so we cannot point to specific demographic rates that are associated with these overall population declines.

In the 5-year review, the Service provides a brief summary of habitat use by desert tortoises; more detailed information is available in the revised recovery plan (Service 2011a). In the absence of specific and recent information on the location of habitable areas of the Mojave Desert, especially at the outer edges of this area, the 5-year review also describes and relies heavily on a quantitative, spatial habitat model for the desert tortoise north and west of the Colorado River that incorporates environmental variables such as precipitation, geology,

heavily on a quantitative, spatial habitat model for the desert tortoise north and west of the Colorado River that incorporates environmental variables such as precipitation, geology, vegetation, and slope and is based on occurrence data of desert tortoises from sources spanning more than 80 years, including data from the 2001 to 2005 range-wide monitoring surveys (Nussear et al. 2009). The model predicts the probability that desert tortoises will be present in any given location; calculations of the amount of desert tortoise habitat in the 5-year review and in this biological opinion use a threshold of 0.5 or greater predicted value for potential desert tortoise habitat. The model does not account for anthropogenic effects to habitat and represents the potential for occupancy by desert tortoises absent these effects.

To begin integrating anthropogenic activities and the variable risk levels they bring to different parts of the Mojave and Colorado deserts, the Service completed an extensive review of the threats known to affect desert tortoises at the time of their listing and updated that information with more current findings in the 5-year review. The review follows the format of the five-factor analysis required by section 4(a)(1) of the Act. The Service described these threats as part of the process of its listing (55 Federal Register 12178; April 2, 1990), further discussed them in the original recovery plan (Service 1994a), and reviewed them again in the revised recovery plan (Service 2011a).

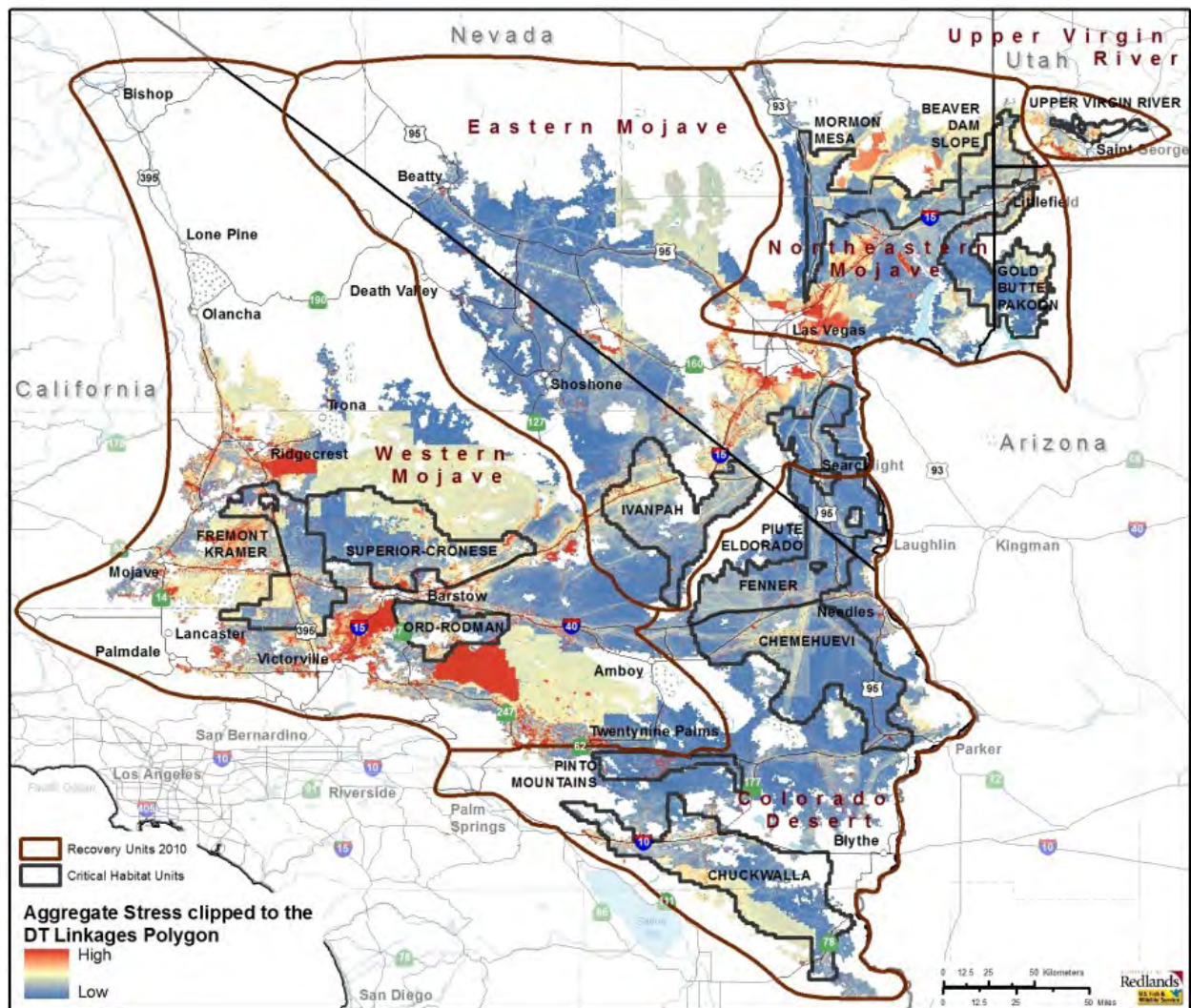
To understand better the relationship of threats to populations of desert tortoises and the most effective manner to implement recovery actions, the Desert Tortoise Recovery Office is developing a spatial decision support system that models the interrelationships of threats to desert tortoises and how those threats affect population change. The spatial decision support system describes the numerous threats that desert tortoises face, explains how these threats interact to affect individual animals and habitat, and how these effects in turn bring about changes in populations. For example, we have long known that the construction of a transmission line can result in the death of desert tortoises and loss of habitat. We have also known that common ravens, known predators of desert tortoises, use the transmission line's pylons for nesting, roosting, and perching and that the access routes associated with transmission lines provide a vector for the introduction and spread of invasive weeds and facilitate increased human access into an area. Increased human access can accelerate illegal collection and release of desert tortoises and their deliberate maiming and killing, as well as facilitate the spread of other threats associated with human presence, such as vehicle use, garbage and dumping, and invasive plants (Service 2011a). Changes in the abundance of native plants because of invasive weeds can compromise the physiological health of desert tortoises, making them more vulnerable to drought, disease, and predation. The spatial decision support system allows us to map threats across the range of the desert tortoise and model the intensity of stresses that these multiple and combined threats place on desert tortoise populations.

The threats described in the listing rule and both recovery plans continue to affect the species. Indirect impacts to desert tortoise populations and habitat occur in accessible areas that interface with human activity. Most threats to the desert tortoise or its habitat are associated with human land uses; research since 1994 has clarified many mechanisms by which these threats act on desert tortoises. As stated earlier, increases in human access can accelerate illegal collection and

release of desert tortoises and deliberate maiming and killing, as well as facilitate the spread of other threats associated with human presence, such as vehicle use, garbage and dumping, and invasive weeds.

Some of the most apparent threats to the desert tortoise are those that result in mortality and permanent habitat loss across large areas, such as urbanization and large-scale renewable energy projects, and those that fragment and degrade habitats, such as proliferation of roads and highways, off-highway vehicle activity, and habitat invasion by non-native invasive plant species. However, we remain unable to quantify how threats affect desert tortoise populations. The assessment of the original recovery plan emphasized the need for a better understanding of the implications of multiple, simultaneous threats facing desert tortoise populations and of the relative contribution of multiple threats on demographic factors (i.e., birth rate, survivorship, fecundity, and death rate; Tracy et al. 2004).

The following map depicts the 12 critical habitat units of the desert tortoise, linkages between conservation areas for the desert tortoise, and the aggregate stress that multiple, synergistic threats place on desert tortoise populations. Conservation areas include designated critical habitat, lands managed by the National Park Service, and other lands managed for the long-term conservation of the desert tortoise (e.g., the Desert Tortoise Natural Area in Kern County, California). The revised recovery plan (Service 2011a) recommended the linkages based on an analysis of least-cost pathways (i.e., areas with the highest potential to support desert tortoises) between conservation areas for the desert tortoise. This map illustrates that, across the range, desert tortoises in areas under the highest level of conservation management remain subject to numerous threats, stresses, and mortality sources.



Since the completion of the 5-year review, the Service has issued several biological opinions that affect large areas of desert tortoise habitat because of numerous proposals to develop renewable energy within its range. These biological opinions concluded that proposed solar plants were not likely to jeopardize the continued existence of the desert tortoise primarily because they were located outside of critical habitat and desert wildlife management areas that contain most of the land base required for the recovery of the species. The proposed actions also included numerous measures intended to protect desert tortoise during the construction of the projects, such as translocation of affected individuals. In aggregate, these projects would result in an overall loss of approximately 37,503 acres of habitat of the desert tortoise. We also predicted that these projects would translocate or kill up to 1,732 desert tortoises; we concluded that most of the individuals in these totals would be juveniles. To date, 372 desert tortoises have been observed during construction of projects; most of these individuals were translocated from work areas, although some desert tortoises have been killed (see appendix 2). The mitigation required by the Bureau and California Energy Commission, the agencies permitting these facilities, will result in the acquisition of private land within critical habitat and desert wildlife management areas and funding for the implementation of various actions that are intended to promote the recovery of

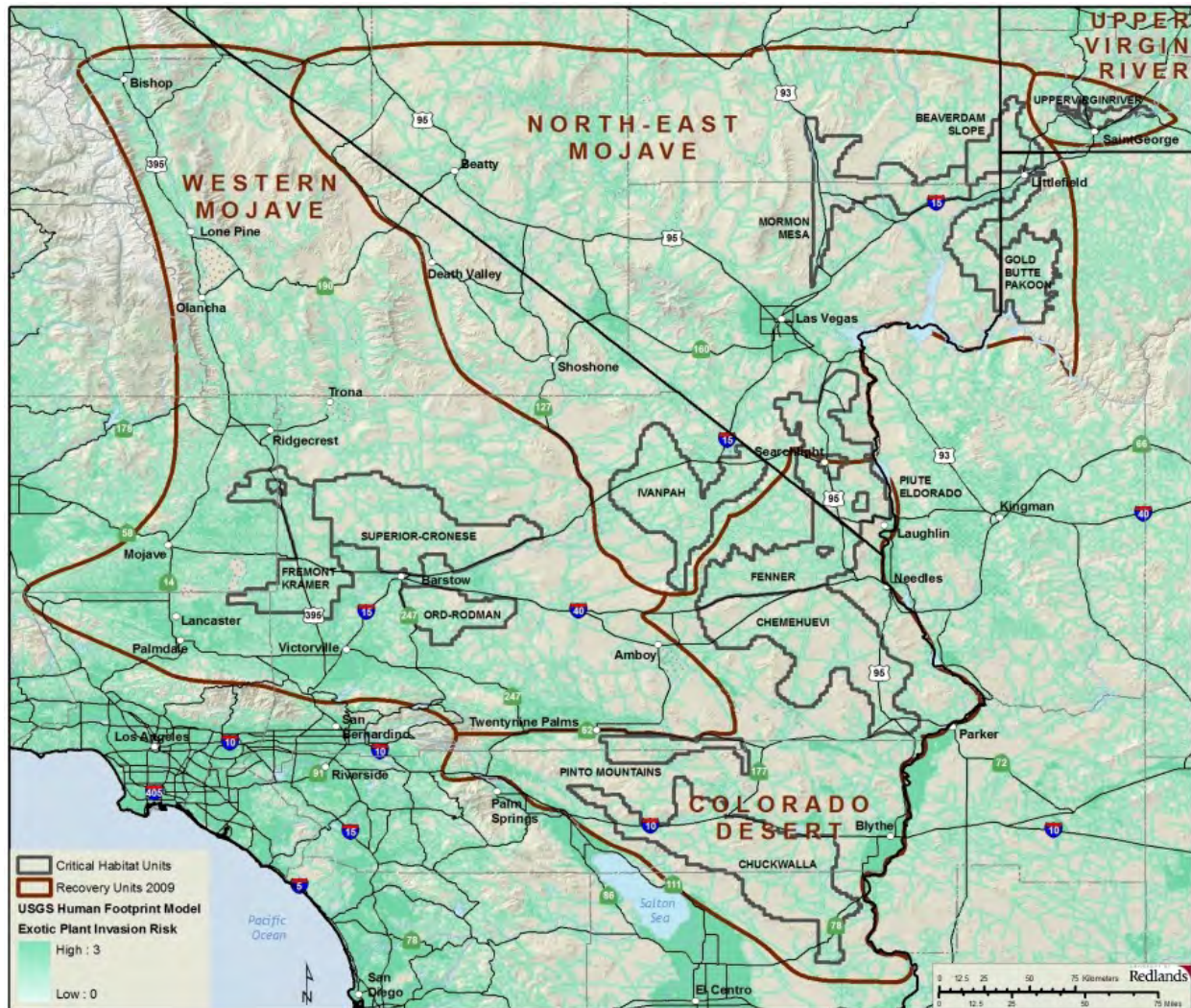
funding for the implementation of various actions that are intended to promote the recovery of the desert tortoise. Although most of these mitigation measures are consistent with recommendations in the recovery plans for the desert tortoise and the Service continues to support their implementation, we cannot assess how desert tortoise populations will respond because of the long generation time of the species.

In addition to the biological opinions issued for solar development within the range of the desert tortoise, the Service (2012e) also issued a biological opinion to the Department of the Army for the use of additional training lands at Fort Irwin. As part of this proposed action, the Army removed approximately 650 desert tortoises from 18,197 acres of the southern area of Fort Irwin, which had been off-limits to training. The Army would also use an additional 48,629 acres that lie east of the former boundaries of Fort Irwin; much of this parcel is either too mountainous or too rocky and low in elevation to support numerous desert tortoises.

The Service also issued a biological opinion to the Marine Corps that considered the effects of the expansion of the Marine Corps Air Ground Combat Center at Twentynine Palms (Service 2012f). We concluded that the Marine Corps' proposed action, the use of approximately 167,971 acres for training, was not likely to jeopardize the continued existence of the desert tortoise. Most of the expansion area lies within the Johnson Valley Off-high Vehicle Management Area.

The incremental effect of the larger actions (i.e., solar development, the expansions of Fort Irwin, and the Marine Corps Air Ground Combat Center) on the desert tortoise is unlikely to be positive, despite the numerous conservation measures that have been (or will be) implemented as part of the actions. The acquisition of private lands as mitigation for most of these actions increases the level of protection afforded these lands; however, these acquisitions do not create new habitat and Federal, State, and privately managed lands remain subject to most of the threats and stresses we discussed previously in this section. Although land managers have been implementing measures to manage these threats, we have been unable, to date, to determine whether the measures have been successful, at least in part because of the low reproductive capacity of the desert tortoise. Therefore, the conversion of habitat into areas that are unsuitable for this species continues the trend of constricting the desert tortoise into a smaller portion of its range.

As the Service notes in the 5-year review (Service 2010b), "(t)he threats identified in the original listing rule continue to affect the (desert tortoise) today, with invasive species, wildfire, and renewable energy development coming to the forefront as important factors in habitat loss and conversion. The vast majority of threats to the desert tortoise or its habitat are associated with human land uses." Oftedal's work (2002 in Service 2010b) suggests that invasive weeds may adversely affect the physiological health of desert tortoises. Current information indicates that invasive species likely affect a large portion of the desert tortoise's range (see following map). Furthermore, high densities of weedy species increase the likelihood of wildfires; wildfires, in turn, destroy native species and further the spread of invasive weeds.



Global climate change is likely to affect the prospects for the long-term conservation of the desert tortoise. For example, predictions for climate change within the range of the desert tortoise suggest more frequent and/or prolonged droughts with an increase of the annual mean temperature by 3.5 to 4.0 degrees Celsius. The greatest increases will likely occur in summer (June-July-August mean increase of as much as 5 degrees Celsius [Christensen et al. 2007 in Service 2010b]). Precipitation will likely decrease by 5 to 15 percent annually in the region with winter precipitation decreasing by up to 20 percent and summer precipitation increasing by up to 5 percent. Because germination of the desert tortoise's food plants is highly dependent on cool-season rains, the forage base could be reduced due to increasing temperatures and decreasing precipitation in winter. Although drought occurs routinely in the Mojave Desert, extended periods of drought have the potential to affect desert tortoises and their habitats through physiological effects to individuals (i.e., stress) and limited forage availability. To place the consequences of long-term drought in perspective, Longshore et al. (2003) demonstrated that even short-term drought could result in elevated levels of mortality of desert tortoises. Therefore, long-term drought is likely to have even greater effects, particularly given that the current fragmented nature of desert tortoise habitat (e.g., urban and agricultural development, Lakes allotments, which are located within critical habitat in the Western Mojave Recovery Unit;

current fragmented nature of desert tortoise habitat (e.g., urban and agricultural development, highways, freeways, military training areas, etc.) will make recolonization of extirpated areas difficult, if not impossible.

The Service notes in the 5-year review that the combination of the desert tortoise's late breeding age and a low reproductive rate challenges our ability to achieve recovery. When determining whether a proposed action is likely to jeopardize the continued existence of a species, we are required to consider whether the action would "reasonably be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species" (50 Code of Federal Regulations 402.02). Although the Service does not explicitly address these metrics in the 5-year review, we have used the information in that document to summarize the status of the desert tortoise with respect to its reproduction, numbers, and distribution.

In the 5-year review, the Service notes that desert tortoises increase their reproduction in high rainfall years; more rain provides desert tortoises with more high quality food (i.e., plants that are higher in water and protein), which, in turn, allows them to lay more eggs. Conversely, the physiological stress associated with foraging on food plants with insufficient water and nitrogen may leave desert tortoises vulnerable to disease (Ofstedal 2002 in Service 2010b), and the reproductive rate of diseased desert tortoises is likely lower than that of healthy animals. Young desert tortoises also rely upon high-quality, low-fiber plants (e.g., native forbs) with nutrient levels not found in the invasive weeds that have increased in abundance across its range (Ofstedal et al. 2002; Tracy et al. 2004). Compromised nutrition of young desert tortoises likely represents an effective reduction in reproduction by reducing the number that reaches adulthood. Consequently, although we do not have quantitative data that show a direct relationship, the abundance of weedy species within the range of the desert tortoise has the potential to negatively affect the reproduction of desert tortoises and recruitment into the adult population.

Data from long-term study plots, which were first established in 1976, cannot be extrapolated to provide an estimate of the number of desert tortoises on a range-wide basis; historic densities in some parts of the desert exceeded 100 adults in a square mile (Desert Tortoise Recovery Office 2014). Using data from the long-term study plots, the Service (2010b) concluded that "appreciable declines at the local level in many areas, which coupled with other survey results, suggest that declines may have occurred more broadly." Other sources indicate that local declines are continuing to occur. For example, surveyors found "lots of dead [desert tortoises]" in the western expansion area of Fort Irwin (Western Mojave Recovery Unit) in 2008 (Fort Irwin Research Coordination Meeting 2008). After the onset of translocation, coyotes killed 105 desert tortoises in Fort Irwin's southern translocation area (Western Mojave Recovery Unit); other canids may have been responsible for some of these deaths. Other incidences of predation were recorded throughout the range of the desert tortoise during this time (Esque et al. 2010). Esque et al. (2010) hypothesized that this high rate of predation on desert tortoises was influenced by low population levels of typical prey for coyotes due to drought conditions in previous years. Recent surveys in the Ivanpah Valley (Eastern Mojave Recovery Unit) for a proposed solar facility detected 31 live desert tortoises and the carcasses of 25 individuals that

had been dead less than 4 years (Ironwood 2011); this ratio of carcasses to live individuals over such a short period of time may indicate an abnormally high rate of mortality for a long-lived animal. In summary, the number of desert tortoises range-wide likely decreased substantially from 1976 through 1990 (i.e., when long-term study plots were initiated through the time the desert tortoise was listed as threatened), although we cannot quantify the amount of this decrease. Additionally, more recent data collected from various sources throughout the range of the desert tortoise suggest that local declines continue to occur (e.g., Bureau et al. 2005, Esque et al. 2010).

The distribution of the desert tortoise has not changed substantially since the publication of the original recovery plan in 1994 (Service 2010b) in terms of the overall extent of its range. Prior to 1994, desert tortoises were extirpated from large areas within their distributional limits by urban and agricultural development (e.g., the cities of Barstow, Lancaster, Las Vegas, St. George, etc.; agricultural areas south of Edwards Air Force Base and east of Barstow), military training (e.g., Fort Irwin, Leach Lake Gunnery Range), and off-road vehicle use (e.g., portions of off-road management areas managed by the Bureau and unauthorized use in areas such as east of California City). Since 1994, urban development around Las Vegas has likely been the largest contributor to habitat loss throughout the range. Desert tortoises have been essentially removed from the 18,197-acre southern expansion area at Fort Irwin (Service 2012e).

The following table depicts acreages of habitat (as modeled by Nussear et al. 2009) within various regions of the desert tortoise's range and of impervious surfaces as of 2006 (Xian et al. 2009). Impervious surfaces include paved and developed areas and other disturbed areas that have zero probability of supporting desert tortoises.

Regions¹	Modeled Habitat (acres)	Impervious Surfaces within Modeled Habitat	Percent of Modeled Habitat that is now Impervious
Western Mojave	7,582,092	1,864,214	25
Colorado Desert	4,948,900	494,981	10
Northeast Mojave	7,776,934	1,173,025	15
Upper Virgin River	232,320	80,853	35
Total	20,540,246	3,613,052	18

¹The regions do not correspond to recovery unit boundaries; we used a more general separation of the range for this illustration.

In conclusion, we have used the 5-year review (Service 2010b), revised recovery plan (Service 2011a), and additional information that has become available since these publications to review the reproduction, numbers, and distribution of the desert tortoise. The reproductive capacity of the desert tortoise may be compromised to some degree by the abundance and distribution of invasive weeds across its range; the continued increase in human access across the desert likely continues to facilitate the spread of weeds and further affect the reproductive capacity of the

species. Prior to its listing, the number of desert tortoises likely declined range-wide, although we cannot quantify the extent of the decline; since the time of listing, data suggest that declines continue to occur throughout most of the range, although recent information suggests that densities may have increased slightly in the Northeastern Mojave Recovery Unit. The continued increase in human access across the desert continues to expose more desert tortoises to the potential of being killed by human activities. The distributional limits of the desert tortoise's range have not changed substantially since the issuance of the original recovery plan in 1994; however, desert tortoises have been extirpated from large areas within their range (e.g., Las Vegas, other desert cities). The species' low reproductive rate, the extended time required for young animals to reach breeding age, and the multitude of threats that continue to confront desert tortoises combine to render its recovery a substantial challenge.

Status of Critical Habitat of the Desert Tortoise

The Service designated critical habitat for the desert tortoise in portions of California, Nevada, Arizona, and Utah in a final rule published February 8, 1994 (59 Federal Register 5820). The Service designates critical habitat to identify the key biological and physical needs of the species and key areas for recovery and to focus conservation actions on those areas. Critical habitat is composed of specific geographic areas that contain the biological and physical features essential to the species' conservation and that may require special management considerations or protection. These features, which include space, food, water, nutrition, cover, shelter, reproductive sites, and special habitats, are called the primary constituent elements of critical habitat. The specific primary constituent elements of desert tortoise critical habitat are: sufficient space to support viable populations within each of the six recovery units and to provide for movement, dispersal, and gene flow; sufficient quality and quantity of forage species and the proper soil conditions to provide for the growth of these species; suitable substrates for burrowing, nesting, and overwintering; burrows, caliche caves, and other shelter sites; sufficient vegetation for shelter from temperature extremes and predators; and habitat protected from disturbance and human-caused mortality.

Critical habitat of the desert tortoise would not be able to fulfill its conservation role without each of the primary constituent elements being functional. As examples, having a sufficient amount of forage species is not sufficient if human-caused mortality is excessive; an area with sufficient space to support viable populations within each of the six recovery units and to provide for movement, dispersal, and gene flow would not support desert tortoises without adequate forage species.

The final rule for designation of critical habitat did not explicitly ascribe specific conservation roles or functions to the various critical habitat units. Rather, it refers to the strategy of establishing recovery units and desert wildlife management areas recommended by the recovery plan for the desert tortoise, which had been published as a draft at the time of the designation of critical habitat, to capture the "biotic and abiotic variability found in desert tortoise habitat" (59 Federal Register 5820, see page 5823). Specifically, we designated the critical habitat units to follow the direction provided by the draft recovery plan (Service 1993a) for the establishment of

desert wildlife management areas. The critical habitat units in aggregate are intended to protect the variability that occurs across the large range of the desert tortoise; the loss of any specific unit would compromise the ability of critical habitat as a whole to serve its intended function and conservation role.

Despite the fact that desert tortoises do not necessarily need to move between critical habitat units to complete their life histories, both the original and revised recovery plans highlight the importance of these critical habitat units and connectivity between them for the recovery of the species. Specifically, the revised recovery plan states that “aggressive management as generally recommended in the 1994 Recovery Plan needs to be applied within existing (desert) tortoise conservation areas (defined as critical habitat, among other areas being managed for the conservation of desert tortoises) or other important areas ... to ensure that populations remain distributed throughout the species’ range (Desert tortoise) conservation areas capture the diversity of the Mojave population of the desert tortoise within each recovery unit, conserving the genetic breadth of the species, providing a margin of safety for the species to withstand catastrophic events, and providing potential opportunities for continued evolution and adaptive change Especially given uncertainties related to the effects of climate change on desert tortoise populations and distribution, we consider (desert) tortoise conservation areas to be the minimum baseline within which to focus our recovery efforts (pages 34 and 35, Service 2011a).”

The 12 critical habitat units range in area from 85 to 1,595 square miles. However, the optimal reserve size recommended to preserve viable desert tortoise populations was 1,000 square miles (Service 1994a); only 4 critical habitat units meet this threshold. Consequently, for some smaller critical habitat units, their future effectiveness in conserving the desert tortoise is largely dependent on the status of populations immediately adjacent to their boundaries or within intervening linkages that connect these smaller critical habitat units to other protected areas. Although the Service (1994a) recommended the identification of buffer zones and linkages for smaller desert tortoise conservation areas, land management agencies have generally not established such areas.

Population viability analyses indicate that reserves should contain from 10,000 to 20,000 adult desert tortoises to maximize estimated time to extinction (i.e., approximately 390 years, depending on rates of population change; Service 1994a). However, during the three most recent years of monitoring within the critical habitat units, only three (in 2009 and 2010) to five (in 2008) of the critical habitat units met this target (McLuckie et al. 2010; Service 2009, 2012a, 2012b). Some critical habitat units share boundaries and form contiguous blocks (e.g. Superior-Cronese and Fremont-Kramer Critical Habitat Units), and those blocks in California include combined estimated abundances of over 10,000 adult desert tortoises. These blocks are adjacent to smaller, more isolated units (e.g., Ord-Rodman Critical Habitat Unit) that are not currently connected to other protected habitat by preserved habitat linkages.

We did not designate the Desert Tortoise Natural Area and Joshua Tree National Park in California and the Desert National Wildlife Refuge in Nevada as critical habitat because they are “primarily managed as natural ecosystems” (59 Federal Register 5820, see page 5825) and

provide adequate protection to desert tortoises. Since the designation of critical habitat, Congress increased the size of Joshua Tree National Park and created the Mojave National Preserve. A portion of the expanded boundary of Joshua Tree National Park lies within critical habitat of the desert tortoise; portions of other critical habitat units lie within the boundaries of the Mojave National Preserve.

Within each critical habitat unit, both natural and anthropogenic factors affect the function of the primary constituent elements of critical habitat. As an example of a natural factor, in some specific areas within the boundaries of critical habitat, such as within and adjacent to dry lakes, some of the primary constituent elements are naturally absent because the substrate is extremely silty; desert tortoises do not normally reside in such areas. Comparing the acreage of desert tortoise habitat as depicted by Nussear et al.'s (2009) model to the gross acreage of the critical habitat units demonstrates quantitatively that the entire area within the boundaries of critical habitat likely does not support the primary constituent elements; see the following table. The acreage for modeled habitat is for the area in which the probability that desert tortoises are present is greater than 0.5. The acreages of modeled habitat are from Service (2012b); they do not include loss of habitat due to human-caused impacts. The difference between gross acreage and modeled habitat is 653,214 acres; that is, approximately 10 percent of the gross acreage of the designated critical habitat is not considered modeled habitat.

Critical Habitat Unit	Gross Acreage	Modeled Habitat
Superior-Cronese	766,900	724,967
Fremont-Kramer	518,000	501,095
Ord-Rodman	253,200	184,155
Pinto Mountain	171,700	144,056
Piute-Eldorado	970,600	930,008
Ivanpah Valley	632,400	510,711
Chuckwalla	1,020,600	809,319
Chemehuevi	937,400	914,505
Gold Butte-Pakoon	488,300	418,189
Mormon Mesa	427,900	407,041
Beaver Dam Slope	204,600	202,499
Upper Virgin River	54,600	46,441
Totals	6,446,200	5,792,986

Condition of the Primary Constituent Elements of Critical Habitat

Human activities can have obvious or more subtle effects on the primary constituent elements. The grading of an area and subsequent construction of a building removes the primary constituent elements of critical habitat; this action has an obvious effect on critical habitat. The revised recovery plan identifies human activities such as urbanization and the proliferation of roads and highways as threats to the desert tortoise and its habitat; these threats are examples of activities that have a clear effect on the primary constituent elements of critical habitat.

We have included the following paragraphs from the revised recovery plan for the desert tortoise (Service 2011a) to demonstrate that other anthropogenic factors affect the primary constituent elements of critical habitat in more subtle ways. All references are in the revised recovery plan (i.e., in Service 2011a); we have omitted some information from the revised recovery plan where the level of detail was unnecessary for the current discussion.

Surface disturbance from [off-highway vehicle] activity can cause erosion and large amounts of dust to be discharged into the air. Recent studies on surface dust impacts on gas exchanges in Mojave Desert shrubs showed that plants encrusted by dust have reduced photosynthesis and decreased water-use efficiency, which may decrease primary production during seasons when photosynthesis occurs (Sharifi et al. 1997). Sharifi et al. (1997) also showed reduction in maximum leaf conductance, transpiration, and water-use efficiency due to dust. Leaf and stem temperatures were also shown to be higher in plants with leaf-surface dust. These effects may also impact desert annuals, an important food source for [desert] tortoises.

[Off-highway vehicle] activity can also disturb fragile cyanobacterial-lichen soil crusts, a dominant source of nitrogen in desert ecosystems (Belnap 1996). Belnap (1996) showed that anthropogenic surface disturbances may have serious implications for nitrogen budgets in cold desert ecosystems, and this may also hold true for the hot deserts that [desert] tortoises occupy. Soil crusts also appear to be an important source of water for plants, as crusts were shown to have 53 percent greater volumetric water content than bare soils during the late fall when winter annuals are becoming established (DeFalco et al. 2001). DeFalco et al. (2001) found that non-native plant species comprised greater shoot biomass on crusted soils than native species, which demonstrates their ability to exploit available nutrient and water resources. Once the soil crusts are disturbed, non-native plants may colonize, become established, and out-compete native perennial and annual plant species (DeFalco et al. 2001, D'Antonio and Vitousek 1992). Invasion of non-native plants can affect the quality and quantity of plant foods available to desert tortoises. Increased presence of invasive plants can also contribute to increased fire frequency.

Proliferation of invasive plants is increasing in the Mojave and Sonoran deserts and is recognized as a substantial threat to desert tortoise habitat. Many species of non-native plants from Europe and Asia have become common to abundant in some areas, particularly where disturbance has occurred and is ongoing. As non-native plant species become established, native perennial and annual plant species may decrease, diminish, or die out (D'Antonio and Vitousek 1992). Land managers and field scientists identified 116 species of non-native plants in the Mojave and Colorado deserts (Brooks and Esque 2002).

Increased levels of atmospheric pollution and nitrogen deposition related to increased human presence and combustion of fossil fuels can cause increased levels of soil nitrogen, which in turn may result in significant changes in plant communities (Aber et

al. 1989). Many of the non-native annual plant taxa in the Mojave region evolved in more fertile Mediterranean regions and benefit from increased levels of soil nitrogen, which gives them a competitive edge over native annuals. Studies at three sites within the central, southern, and western Mojave Desert indicated that increased levels of soil nitrogen can increase the dominance of non-native annual plants and promote the invasion of new species in desert regions. Furthermore, increased dominance by non-native annuals may decrease the diversity of native annual plants, and increased biomass of non-native annual grasses may increase fire frequency (Brooks 2003).

This summary from the revised recovery plan (Service 2011a) demonstrates how the effects of human activities on habitat of the desert tortoise are interconnected. In general, surface disturbance causes increased rates of erosion and generation of dust. Increased erosion alters additional habitat outside of the area directly affected by altering the nature of the substrate, removing shrubs, and possibly destroying burrows and other shelter sites. Increased dust affects photosynthesis in the plants that provide cover and forage to desert tortoises. Disturbed substrates and increased atmospheric nitrogen enhance the likelihood that invasive species will become established and outcompete native species; the proliferation of weedy species increases the risk of large-scale fires, which further move habitat conditions away from those that are favorable to desert tortoises.

The following paragraphs generally describe how the threats described in the revised recovery plan affect the primary constituent elements of critical habitat of the desert tortoise.

Sufficient space to support viable populations within each of the six recovery units and to provide for movement, dispersal, and gene flow.

In considering the following discussion, bear in mind the information provided previously in this biological opinion regarding the recommended and actual sizes of critical habitat units for the desert tortoise. The original recovery team based the recommended size of desert wildlife management areas on the amount of space required to maintain viable populations. (The recovery plan [Service 1994a] defined conservation areas for the desert tortoise as ‘desert wildlife management areas;’ we based the boundaries of critical habitat on the recovery team’s general recommendation for the desert wildlife management areas.) The current low densities of desert tortoises within critical habitat units exacerbate the difficulties of effecting recovery within these areas.

Urban and agricultural development, concentrated use by off-road vehicles, and other activities of this nature completely remove habitat. Although we are aware of local areas within the boundaries of critical habitat that have been heavily disturbed, we do not know of any areas that have been disturbed to the intensity and extent that this primary constituent element has been compromised. To date, the largest single loss of critical habitat is the use of 18,197 acres of additional training land in the southern portion of Fort Irwin. In our biological opinion for that proposed action (Service 2012e), we stated:

The proposed action would essentially eliminate the primary constituent elements from approximately 2.40 percent of the Superior-Cronese Critical Habitat Unit; additionally, the conservation role of the remainder of this critical habitat unit and the other critical habitat units has been compromised by substantial human impact on the second and sixth primary constituent elements. However, the protective measures that the Army implemented as part of the proposed action offset, at least to some extent, the adverse effects of the use of the additional training lands in the southern expansion area. Consequently, we have concluded that, although the second and sixth primary constituent elements are not functioning appropriately throughout most of designated critical habitat of the desert tortoise and the proposed action would result in substantial disturbance to 18,197 acres of the Superior-Cronese Critical Habitat Unit, the change in the condition of critical habitat brought about by the Army's proposed action (i.e., use of the southern expansion area for training and implementation of the conservation actions) is not likely to cause an overall decrease in the conservation value and function of the Superior-Cronese Critical Habitat Unit.

The widening of existing freeways likely caused the second largest loss of critical habitat. Despite these losses of critical habitat, which occur in a linear manner, the critical habitat units continue to support sufficient space to support viable populations within each of the six recovery units.

In some cases, major roads likely disrupt the movement, dispersal, and gene flow of desert tortoises. Highways 58 and 395 in the Fremont-Kramer Critical Habitat Unit and Fort Irwin Road in the Superior-Cronese Critical Habitat Unit are examples of large and heavily travelled roads that likely disrupt movement, dispersal, and gene flow. Roads that have been fenced and provided with underpasses may alleviate this fragmentation to some degree; however, such facilities have not been in place for sufficient time to determine whether they will eliminate fragmentation.

The threats of invasive plant species described in the revised recovery plan generally do not result in the removal of this primary constituent element because they do not convert habitat into impervious surfaces, as would urban development.

Sufficient quality and quantity of forage species and the proper soil conditions to provide for the growth of these species.

This primary constituent element addresses the ability of critical habitat to provide adequate nutrition to desert tortoises. As described in the revised recovery plan and 5-year review, grazing, historical fire, invasive plants, altered hydrology, drought, wildfire potential, fugitive dust, and climate change/temperature extremes contribute to the stress of "nutritional compromise." Paved and unpaved roads through critical habitat of the desert tortoise provide avenues by which invasive native species disperse; these legal routes also provide the means by which unauthorized use occurs over large areas of critical habitat. Nitrogen deposition from atmospheric pollution likely occurs throughout all the critical habitat units and exacerbates the

effects of the disturbance of substrates. Because paved and unpaved roads are so widespread through critical habitat, this threat has compromised the conservation value and function of critical habitat throughout the range of the desert tortoise, to some degree. See the Status of the Desert Tortoise section of this biological opinion for a map that depicts the routes by which invasive weeds have access to critical habitat; the routes shown on the map are a subset of the actual number of routes that actually cross critical habitat of the desert tortoise.

Suitable substrates for burrowing, nesting, and overwintering.

Surface disturbance, motor vehicles traveling off route, use of OHV management areas, OHV events, unpaved roads, grazing, historical fire, wildfire potential, altered hydrology, and climate change leading to shifts in habitat composition and location, storms, and flooding can alter substrates to the extent that they are no longer suitable for burrowing, nesting, and overwintering. Erosion caused by these activities can alter washes to the extent that desert tortoise burrows placed along the edge of a wash, which is a preferred location for burrows, could be destroyed. We expect that the area within critical habitat that is affected by off-road vehicle use to the extent that substrates are no longer suitable is relatively small in relation to the area that desert tortoises have available for burrowing, nesting, and overwintering; consequently, off-road vehicle use has not had a substantial effect on this primary constituent element.

Most livestock allotments have been eliminated from within the boundaries of critical habitat. Of those that remain, livestock would compact substrates to the extent that they would become unsuitable for burrowing, nesting, and overwintering only in areas of concentrated use, such as around watering areas and corrals. Because livestock grazing occurs over a relatively small portion of critical habitat and the substrates in most areas within livestock allotments would not be substantially affected, suitable substrates for burrowing, nesting, and overwintering remain throughout most of the critical habitat units.

Burrows, caliche caves, and other shelter sites.

Human-caused effects to burrows, caliche caves, and other shelter sites likely occur at a similar rate as effects to substrates for burrowing, nesting, and overwintering for the same general reasons. Consequently, sufficient burrows, caliche caves, and other shelter sites remain throughout most of the critical habitat units.

Sufficient vegetation for shelter from temperature extremes and predators.

In general, sufficient vegetation for shelter from temperature extremes and predators remains throughout critical habitat. In areas where large fires have occurred in critical habitat, many of the shrubs that provide shelter from temperature extremes and predators have been destroyed; in such areas, cover sites may be a limiting factor. The proliferation of invasive plants poses a threat to shrub cover throughout critical habitat as the potential for larger and more frequent wildfires increases.

In 2005, wildfires in Nevada, Utah, and Arizona burned extensive areas of critical habitat (Service 2010b). Although different agencies report slightly different acreages, the following table provides an indication of the scale of the fires.

Critical Habitat Unit	Total Area Burned (acres)	Percent of the Critical Habitat Unit Burned
Beaver Dam Slope	53,528	26
Gold-Butte Pakoon	65,339	13
Mormon Mesa	12,952	3
Upper Virgin River	10,557	19

The revised recovery plan notes that the fires caused statistically significant losses of perennial plant cover, although patches of unburned shrubs remained. Given the patchiness with which the primary constituent elements of critical habitat are distributed across the critical habitat units and the varying intensity of the wildfires, we cannot quantify precisely the extent to which these fires disrupted the function and value of the critical habitat.

Habitat protected from disturbance and human-caused mortality.

In general, the Federal agencies that manage lands within the boundaries of critical habitat have adopted land management plans that include implementation of some or all of the recommendations contained in the original recovery plan for the desert tortoise. (See pages 70 to 72 of Service 2010b.) To at least some degree, the adoption of these plans has resulted in the implementation of management actions that are likely to reduce the disturbance and human-caused mortality of desert tortoises. For example, these plans resulted in the designation of open routes of travel and the closure (and, in some cases, physical closure) of unauthorized routes. Numerous livestock allotments have been relinquished by the permittees and cattle no longer graze these allotments. Because of these planning efforts, the Bureau's record of decision included direction to withdraw some areas of critical habitat from mineral entry. Because of actions on the part of various agencies, many miles of highways and other paved roads have been fenced to prevent desert tortoises from wandering into traffic and being killed. The Service and other agencies of the Desert Managers Group in California are implementing a plan to remove common ravens that prey on desert tortoises and to undertake other actions that would reduce subsidies (i.e., food, water, sites for nesting, roosting, and perching, etc.) that facilitate their abundance in the California desert (Service 2008).

Despite the implementation of these actions, disturbance and human-caused mortality continue to occur in many areas of critical habitat (which overlap the desert wildlife management areas for the most part and are the management units for which most data are collected) to the extent that the conservation value and function of critical habitat is, to some degree, compromised. For example, many highways and other paved roads in California remain unfenced. Twelve desert tortoises were reported to be killed on paved roads from within Mojave National Preserve in 2011, and we fully expect that desert tortoises are being killed at similar rates on many other roads, although these occurrences are not discovered and reported as diligently as by the

National Park Service. Employees of the Southern California Gas Company reported two desert tortoises in 2011 that were crushed by vehicles on unpaved roads.

Unauthorized off-road vehicle use continues to disturb habitat and result in loss of vegetation within the boundaries of critical habitat (e.g., Coolgardie Mesa in the Western Mojave Recovery Unit); although we have not documented the death of desert tortoises as a direct result of this activity, it likely occurs. Additionally, the habitat disturbance caused by this unauthorized activity exacerbates the spread of invasive plants, which displace native plants that are important forage for the desert tortoise, thereby increasing the physiological stress faced by desert tortoises.

Although the Bureau has approved, through its land use planning processes, the withdrawal of areas of critical habitat from mineral entry, it has not undertaken the administrative procedures to complete withdrawals in all areas. Absent this withdrawal, new mining claims can be filed and further disturbance of critical habitat could occur.

Finally, the Bureau has not allowed the development of solar power plants on public lands within the boundaries of its desert wildlife management areas (which largely correspond to the boundaries of critical habitat). Conversely, the County of San Bernardino is considering the approval of the construction and operation of at least two such facilities within the boundaries of the Superior-Cronese Critical Habitat Unit north of Interstate 15 near the Minneola Road exit.

Summary of the Status of Critical Habitat of the Desert Tortoise

As noted in the revised recovery plan for the desert tortoise and 5-year review (Service 2011a, 2010b), critical habitat of the desert tortoise is subject to landscape level impacts in addition to the site-specific effects of individual human activities. On the landscape level, atmospheric pollution is increasing the level of nitrogen in desert substrates; the increased nitrogen exacerbates the spread of invasive plants, which outcompete the native plants necessary for desert tortoises to survive. As invasive plants increase in abundance, the threat of large wildfires increases; wildfires have the potential to convert the shrubland-native annual plant communities upon which desert tortoises depend to a community with fewer shrubs and more invasive plants. In such a community, shelter and forage would be more difficult for desert tortoises to find. Invasive plants have already compromised the conservation value and function of critical habitat to some degree with regard to the second primary constituent element (i.e., sufficient quality and quantity of forage species and the proper soil conditions to provide for the growth of these species). These effects likely extend to the entirety of critical habitat, given the numerous routes by which invasive plants can access critical habitat and the large spatial extent that is subject to nitrogen from atmospheric pollution. (See maps from previous sections of this biological opinion regarding the extent of the threat of invasive plants and the aggregate stress that multiple threats, including invasive plants, place on critical habitat.)

Critical habitat has been compromised to some degree with regard to the last primary constituent element (i.e., habitat protected from disturbance and human-caused mortality) as a result of the wide variety of human activities that continues to occur within its boundaries. These effects

result from the implementation of discrete human activities and are thus more site-specific in nature.

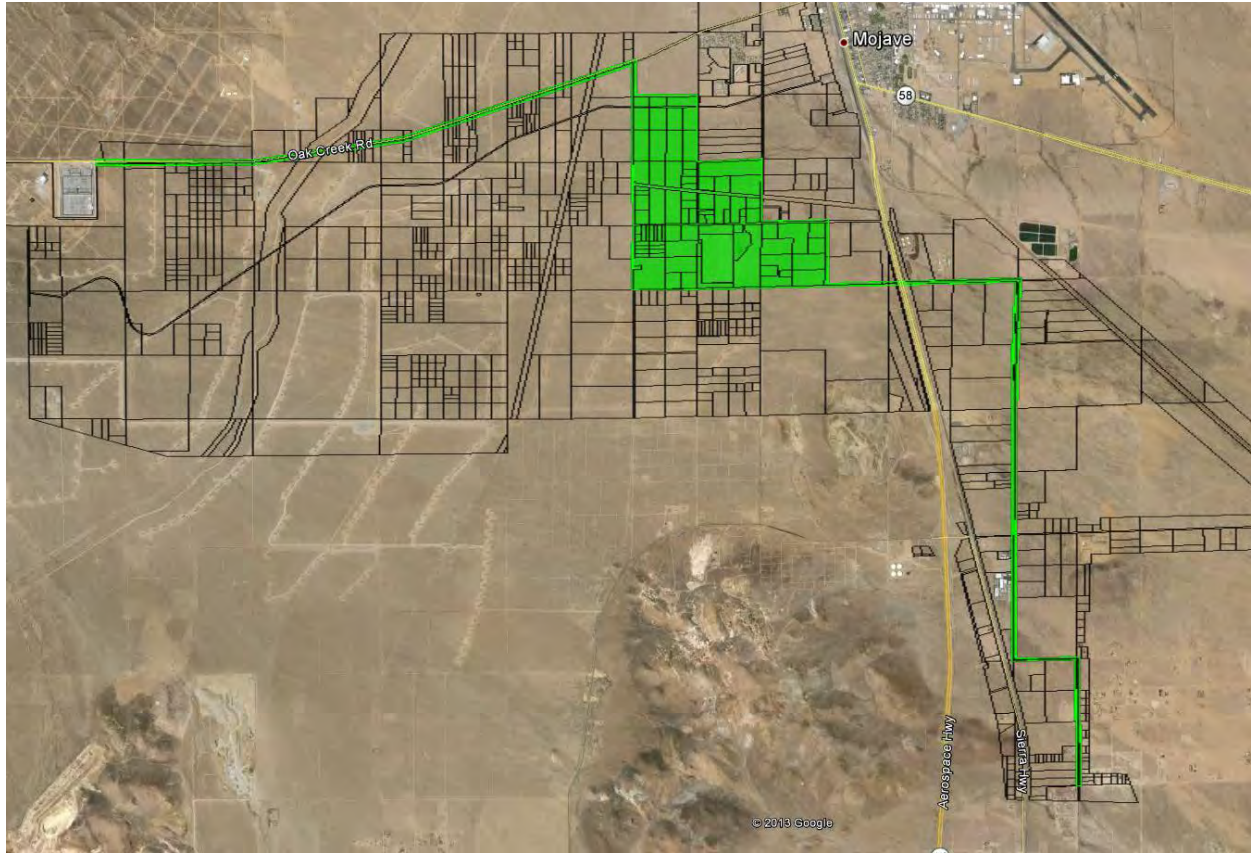
Although the remaining primary constituent elements have been affected to some degree by human activities, these impacts have not, to date, substantially compromised the conservation value and function of the critical habitat units. We have reached this conclusion primarily because the effects are localized and thus do not affect the conservation value and function of large areas of critical habitat.

Land managers have undertaken actions to improve the status of critical habitat. For example, as part of its efforts to offset the effects of the use of additional training maneuver lands at Fort Irwin (Service 2004), the Army acquired the private interests in the Harper Lake and Cronese Lakes allotments, which are located within critical habitat in the Western Mojave Recovery Unit; as a result, cattle have been removed from these allotments. Livestock have been removed from numerous other allotments through various means throughout the range of the desert tortoise. The retirement of allotments assists in the recovery of the species by eliminating disturbance to the primary constituent elements of critical habitat by cattle and range improvements.

ENVIRONMENTAL BASELINE

Action Area

The implementing regulations for section 7(a)(2) of the Act define the “action area” as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 Code of Federal Regulations 402.02). The action area for this biological opinion is the footprint of Edwards Air Force Base, which consists of 307,516 acres, and the route of the gen-tie line from the proposed Oro Verde Solar Project in the northwestern corner of the base to the Windhub Substation, as depicted on the following map (Brewer-Anderson 2013). The precise route for the gen-tie line has not been finalized. The easement for the gen tie line would be 13.9 miles long and up to 110 feet wide. The easement would cover approximately 147 acres.



Habitat Characteristics of the Action Area

The following information provides a summary of the discussion of habitat characteristics from the biological evaluation (Air Force 2008a) and integrated natural resources management plan (Air Force 2008b). The proposed action area is located in the western portion of the Mojave Desert mid-way between the southern end of the Sierra Nevada and the San Bernardino Mountains. Edwards Air Force Base is visually dominated by three dry lakebeds: Rosamond, Rogers, and Buckhorn dry lakes. The area is characterized as high desert with broad expansive valleys bordered by low rocky hills.

The main plant communities on base include creosote bush scrub, saltbush scrub, Joshua tree woodland, and mesquite woodland. The zonal plant communities are primarily based on soil characteristics and elevation; elevation ranges on the base range between 2,500 to 3,300 feet, and topography gradually slopes from west to east. Vegetation in the upland areas on base consists of two main plant communities: creosote bush scrub and Joshua tree woodland. Lowland communities consist of the alkali sink and saltbush communities.

Existing Conditions in the Action Area

In this section, we discuss the anthropogenic and natural conditions in the action area as they relate to desert tortoises and their habitat. Unless we have noted otherwise by citing a biological opinion, the anthropogenic conditions present in the action area were constructed or instituted prior to the listing of the desert tortoise. We summarized the following information from the biological evaluation (Air Force 2008a), integrated natural resources management plan (Air Force 2008b), and communications with Edwards Air Force Base personnel.

Land Use

Edwards Air Force Base is divided into 7 environmental management areas or support zones to better manage the variety of environmental management programs. Figure 3-2 in the integrated natural resource management plan depicts the boundaries of each support zone.

The first zone is a relatively isolated developed area which contains the Air Force Research Laboratory. This area is surrounded by the Precision Impact Range Area in the northeastern portion of the base; desert tortoises are occasionally encountered in this zone.

The second and third zones are composed of main base south and main base north, respectively. Main base south supports areas developed for residential, recreational and commercial use. Main base north is the third zone and supports developed and undeveloped areas; developments in this area support a wide range of operations conducted by the base. Environmental issues in this zone include off-road vehicle areas and the presence of desert tortoise populations.

Zones four and five were developed to support flightline activities. The fourth zone, which is south base, is the original flightline that now primarily functions as a taxiway. Zone five contains the flightline, taxiways and associated hangars. Environmental issues of concern while operating in zone five include desert tortoise and habitat recovery.

The sixth environmental zone consists of the north base and Precision Impact Range Areas. The Precision Impact Range Area covers a large portion of the eastern part of the base and supports low-level aircraft flight-testing, open burn/open detonation facility, and various other facilities; this area also contains desert tortoise critical habitat. The Service (1994b) issued a biological opinion regarding the effects of establishing the Precision Impact Range Area on the desert tortoise and its critical habitat; in this biological opinion, we concluded that the proposed action was not likely to jeopardize the continued existence of the desert tortoise or destroy or adversely modify its critical habitat because of implementation of numerous measures intended to minimize the effects of the proposed action on desert tortoises. The open burn/open detonation area on the Precision Impact Range Area is equipped with desert tortoise exclusion fencing to prevent individuals from entering the facility; due to regular grading, very little vegetation persists within or immediately adjacent to the fenced area of the open burn-open detonation unit. Zone seven comprises undeveloped lands used for a wide variety of base activities including, but not limited to buffer zone around the three lakebeds, aircraft drop zones, shooting ranges,

training area, and lakebed runways. Environmental issues in this management area include desert tortoise, water wells, unpaved roads and emergency landing areas.

The Service has issued biological opinions regarding the effects of establishing, operating, and maintaining a suite of facilities and training areas throughout Edwards Air Force Base on the desert tortoise and its critical habitat. Desert tortoises have been translocated from the areas as necessary to successfully carry out the proposed actions and minimize impacts to desert tortoise. We concluded that the proposed actions were not likely to jeopardize the continued existence of the desert tortoise or destroy or adversely modify its critical habitat; we expect that these actions led to an overall decrease in the number of individuals in these areas.

The type and frequency of use varies greatly between areas. Some areas are heavily used and others remain virtually untouched (Air Force 2008b). Large areas of the base remain undeveloped and accommodate testing activities. A perimeter fence was installed around the base to help conserve desert tortoise habitat, in particular critical habitat. Areas designated as desert tortoise critical habitat require personnel to follow different levels of protection measures based upon the activities planned within that area.

The Air Force has re-vegetated areas disturbed by wildfire burns, unused vehicle routes, abandoned targets, closed borrow pits, closed landfills, and other areas within desert tortoise habitat. As of May 2013, the base has re-vegetated approximately 135 acres of habitat (much of which took place in previously burned areas) (Air Force 2014a). Of this amount, approximately 55 acres are located in critical habitat on the Precision Impact Range Area.

Impacts to natural resources may result in the release of hazardous substances, pollutants, and contaminants into the environment from mission-related activities. The Service issued five biological opinions regarding the effect of the Installation Restoration Program on desert tortoises and its critical habitat; in the biological opinions, we concluded that the proposed actions were not likely to jeopardize the continued existence of the desert tortoise or destroy or adversely modify its critical habitat because a reduction in disturbance is likely to benefit desert tortoises by reducing the amount of habitat that is lost or degraded.

The area between the northwest corner of the base and the Windhub Substation generally supports desert habitat with some scattered residences and businesses. The western end of the gen-tie line crosses through areas that have been developed as wind farms.

Use by Feral and Domestic Livestock

One of the primary historic uses of the land within Edwards Air Force Base included livestock grazing. Although livestock grazing has not legally occurred on base since 1950, portions are still recovering from past overgrazing practices. Illegal sheep grazing occasionally occurred along the northern boundary of the base; installation of boundary fence along the base perimeter has eliminated this problem. Sheep grazing still occurs around the base periphery resulting in some edge effects. Sheep likely occasionally graze in areas along the route of the proposed gen-tie line.

Non-native Species

The processes of grazing, urbanization, agriculture, and road and utility construction have resulted in the introduction of invasive annuals to the native flora, particularly split grass (*Schismus barbatus*), cheat grass (*Bromus tectorum*), and red brome (*Bromus madritensis* ssp. *rubens*). More recently, Sahara mustard (*Brassica tournfortii*) has spread into the western Mojave Desert from the Colorado Desert; it has been observed along U.S. Highway 395 along the edge of the eastern boundary of the base. We expect the abundance of these species to be higher in portions of the base that experienced the most recent livestock grazing.

The abundance and diversity of non-native species in any area vary in relation to the seasonal weather; consequently, the composition of the non-native plant flora may be substantially different from year to year. An overabundance of weedy species likely compromises the nutritional status of desert tortoises, as we discussed in the Status of the Species section of this biological opinion. We do not have specific information on the distribution of non-native species nor on their specific effects on desert tortoises in the action area.

Paved and Unpaved Roads

Highway 395 traverses the northeast corner of Edwards Air Force Base. State Route 58 parallels the northern boundary, with the exception of a small portion that crosses into the base. The construction of Highway 395 and State Route 58 resulted in the loss of viable desert tortoise habitat and poses as a barrier to movement of desert tortoises; we anticipate that at least a few desert tortoises are killed on these roads annually. State Highway 14 crosses the proposed route of the gen-tie line at about its midpoint. Furthermore, we expect that desert tortoise densities adjacent to these major roads are depressed, as discussed by Hoff and Marlow (2002), but we are not aware of surveys that quantify this effect in these specific areas.

The paved roads within the base are focused in areas supporting development and urbanization. The Service (1993b) issued a biological opinion that concluded that the proposed maintenance and repair of roads throughout the base was not likely to jeopardize the continued existence of the desert tortoise or destroy or adversely modify its critical habitat because most of the proposed actions would occur in previously disturbed areas.

In addition to the paved roads within the base, unpaved roads also traverse the action area. One of the primary historic uses of the land within Edwards Air Force Base included off-road and off-highway vehicle activities. Currently, off-road driving is generally prohibited except for within three designated off-road vehicle areas on base (see figure 7-8 in Air Force 2008b). Off-road vehicle area 1 is approximately 100 acres and designated only for use by the Desert Wheels Motorcycle Club. Off-road vehicle area 2 is approximately 15,040 acres located west of military family housing and is jointly used for off-road vehicles, equestrians, and general recreation. Off-road vehicle area 3 is approximately 4,328 acres, including 32 miles of trails, and is only used for non-motorized mountain biking and jogging. No motorized off-road vehicles are permitted in this area. The Service (1996) issued a biological opinion to the Air Force that considered the

effects of establishment and continued use of off-road vehicle area 2 on the desert tortoise. We concluded that the proposed action was not likely to jeopardize the continued existence of the desert tortoise. We expect that recreational use of these areas likely results in the death or injury of desert tortoises.

In July 2002, the Air Force (2008a) had installed approximately 42 miles of desert tortoise exclusion fencing throughout the base. The Air Force fenced roads to reduce injury and mortality to desert tortoises associated with their use. However, the Air Force subsequently determined that the increased fragmentation of habitat and barriers to movement could outweigh the benefit of reducing the injury and mortality of desert tortoises. Edwards Air Force Base currently has approximately 13 miles of desert tortoise exclusion fencing along areas where desert tortoises and threats overlap (Mull 2013b). The Air Force continues to evaluate the need for desert tortoise barrier fencing along roads to maintain connectivity of adjacent habitat.

Since the listing of the desert tortoise, five known desert tortoise deaths have occurred on Edwards Air Force Base; most of the deaths resulted from desert tortoises getting run over by mission-related traffic (Mull 2013c, 2013d). Environmental Management has closed rarely used dirt roads on portions of the base by constructing barriers across those roads; more road closures are planned in the future. New road construction is limited on base. Edwards Air Force Base personnel are encouraged to use existing roads for access throughout the base whenever possible. New roads were created in the past for projects; however, for many years, new projects have been designed to use existing roads as much as possible.

Utilities

Several underground utilities have been constructed in the northern border of the base paralleling State Highway 58. The Service (1995) issued a biological opinion to the Air Force that considered the effects of installing underground communication lines and related facilities at Edwards Air Force Base. We concluded that the proposed action was not likely to jeopardize the continued existence of the desert tortoise.

Large utility poles occur along the eastern boundary paralleling Highway 395. Utility construction on the base from the south and west has also occurred along well-traveled roads. These utilities were installed in the road shoulder or beneath paved or unpaved roads, which presents no new ground disturbance to the habitat adjacent to the road.

The most substantial ongoing effect of utility poles is their ongoing use by common ravens for perching and nesting. The presence of this additional nesting substrate, which allows common ravens to nest far above the reach of ground-dwelling predators, likely contributes substantially to the increase in the number of common ravens in the desert. As previously discussed, common ravens prey on desert tortoises and are likely detrimental to the recovery of the desert tortoise. The need for road maintenance on the utility corridors has left permanent bare areas. Roads along and above utility corridors are occasionally used for maintenance. As we previously

mentioned, the Air Force participates in ongoing re-vegetation efforts which aide in reducing impacts from the establishment of utility corridors.

Status of the Desert Tortoise in the Action Area

The Air Force conducted four major surveys throughout the base between 1991 and 1994 to determine relative density estimates of the desert tortoise. With some exceptions, results of these surveys indicate desert tortoises occur throughout the base, but are not uniformly distributed. Approximately 126 square miles (27 percent) of the base were excluded due to lack of desert tortoise habitat (e.g., dry lake beds, cantonment areas, research facilities, graded targets, housing areas, and other operational areas). The Air Force repeated these density surveys from 2006 through 2007 following the same methodology employed during the 1991 to 1994 surveys.

The Air Force used the total corrected sign method to conduct these surveys. In this methodology, surveyors record the amount of desert tortoise sign (e.g., scat, barrows, etc.) observed while walking transects and then develop a density estimate by calibrating the results against densities on long-term study plots, where the density of desert tortoises had been previously estimated using mark-recapture studies. This technique provides an index of relative density only and is no longer used for several reasons.

The following table summarizes results of surveys conducted from 1991 to 1994 and from 2006 to 2007 (Air Force 2008b, Air Force 2010). Although the absolute numbers may be questionable, the comparison of average densities between the two survey periods seems to indicate that the number of desert tortoises on Edwards Air Force Base has declined.

Survey Period	Density range (individuals per square mile)	Average density (individuals per square mile)
1991-1994	3 to 69	15.9
2006-2007	0 to 58	7.8

Results of the 2006 to 2007 surveys indicate that the relative density of desert tortoises are approximately twice as high near designated critical habitat and within the eastern portion of the base as they are on the west side. The mean relative density of desert tortoises on the east side of the base was 10.3 per square mile; on the west side, the mean relative density was 5.1 desert tortoises per square mile. Fewer desert tortoises are observed along the lakebeds and in the southwestern portions of the base. We added the densities of the areas surveyed and estimated that approximately 2,643 desert tortoises occurred on Edwards Air Force Base at the time of the 2006 and 2007 surveys; because of the variability associated with this methodology, we emphasize that this number represents a very rough estimate.

As we discussed in the Existing Conditions in the Action Area section, we expect that State Routes 58, which borders a portion of the northern edge of the base, and 395, which crosses its

northeastern tip, have likely resulted in a decrease in the numbers of desert tortoises adjacent to these roads. The number of desert tortoises on base has also likely been affected to a degree by the extensive human activity at Edwards Air Force Base that occurred prior to the listing of the species in 1989 (e.g., development of the main base, housing areas, bombing ranges and training areas, etc.; see Appendix B in Air Force 2008a). Finally, desert tortoises on base likely experienced an overall decrease in density as a result of the same factors that affected desert tortoises throughout the western Mojave Desert as we discussed in the Status of the Species section of this biological opinion.

The following table depicts the numbers of desert tortoises that have been killed or moved from harm's way as a result of the Air Force's activities under its active biological opinions (Mull 2013d). As in every action that covers a large area, we expect that the Air Force did not detect all injuries and mortalities. Because the number of desert tortoise mortalities is lower than the number moved from harm's way and substantially lower than the number of observations, we expect that the Air Force's protective measures are generally functioning well and that few animals have been killed or injured as a result of the activities.

Biological opinion	Total number of Desert Tortoises		
	Observed	Mortalities	Moved from harm's way
1-6-91-F-28	3	1	1
1-6-92-F-61	1	0	3
1-8-93-F-5	9	0	2
1-8-93-F-18	0	0	0
1-8-93-F-23	18	0	1
1-8-93-F-32	1	0	1
1-8-93-F-35	0	0	0
1-8-94-F-6	68	2	16
1-8-94-F-19	6	0	0
1-8-94-F-25	0	0	0
1-8-95-F-1	0	0	0
1-8-95-F-6	0	0	0
1-8-95-F-31	1	0	0
1-8-96-F-10	2	0	1
1-8-96-F-45	11	0	0
1-8-96-F-56	0	0	0
1-8-97-F-10	73	2	40
1-8-97-F-38	3	0	0
1-8-98-F-21R	0	0	0
1-8-99-F-58	0	0	0
Total	196	5	65

Total number of desert tortoise observations, mortalities, and moved from harm's way under biological opinions for Edwards Air Force Base from January 1, 1997 to May 31, 2013.

The Air Force is unlikely to find every desert tortoise that dies as a result of its activities. Although we expect that the Air Force's activities have killed more than 5 desert tortoises since its listing, we also expect that the overall number of animals that have died is unlikely to be substantially more than that observed by the Air Force. We have reached this conclusion because the generally low density of desert tortoises on base likely decreases the frequency of interactions between the Air Force's activities and desert tortoises. Additionally, the intensity of monitoring employed by the Air Force and the general high level of awareness of desert tortoises by base personnel in general likely add further protection to individuals of this species.

We expect that desert tortoises occur along the proposed easement for the gen-tie line in low numbers; we are aware of a few desert tortoises that have been detected in the area of the wind farms as a result of surveys conducted in that area. Sheep grazing and unauthorized off-road vehicle use have likely degraded the quality of habitat in this area and resulted in the deaths of desert tortoises. Because of the human activity associated with the residences and businesses, we expect that common ravens are common in this area and exert heavy predation pressure on desert tortoises. We also expect that the presence of State Route 14 has caused a local depression in the number of desert tortoises along the easement.

Status of Critical Habitat of the Desert Tortoise in the Action Area

Approximately 65,554 acres of the Fremont-Kramer Critical Habitat Unit are generally located on the south central and eastern portions of Edwards Air Force Base (Air Force 2008b); this area includes portions of Air Force research facilities and the Precision Impact Range Area. (See figure 5-7 in Air Force 2008b). The Air Force did not provide information on the overall condition of the primary constituent elements of critical habitat within the boundaries of Edwards Air Force Base. In general, we expect that the condition of the primary constituent elements within the installation is similar to that within the remainder of the Fremont-Kramer Critical Habitat Unit. That is, although we expect that the first, third, fourth, and fifth primary constituent elements have been affected to some degree by the Air Force's activities, these impacts have not, to date, substantially compromised the conservation value and function of the critical habitat. We expect that invasive plants have compromised the conservation value and function of critical habitat to some degree with regard to the second primary constituent element (i.e., sufficient quality and quantity of forage species and the proper soil conditions to provide for the growth of these species). Because most of the critical habitat within Edwards Air Force Base experiences fewer disturbances than public lands off base, we expect that the sixth primary constituent element (i.e., habitat protected from disturbance and human caused mortality) has not been appreciably affected by human activities.

The Air Force's activities contribute to the less-than-prime condition of the second primary constituent element. As previously mentioned in the Environmental Baseline, desert tortoise critical habitat is present within the Precision Impact Range Area on base; this area is divided into three management zones that roughly correspond with mission use in each zone. Zone 1 is a designated 4,681-acre area that experiences the heaviest use within the Precision Impact Range Area and critical habitat. Approximately 27,902 acres of critical habitat fall within the area

designated as Zone 2, this area experiences a moderate level of activity that is expected to continue at its current rate. Zone 3 encompasses 31,254 acres of the Precision Impact Range Area. Very little activity occurs within this area. The remaining critical habitat on base that is not associated with the three management zones is 1,717 acres.

The following table shows the total acres of habitat disturbance and re-vegetation efforts in desert tortoise critical habitat under active biological opinions for Edwards Air Force Base. The total acres of disturbance and re-vegetation comprise approximately 0.16 and 0.09 percent of the amount of critical habitat that lies with the boundaries of Edwards Air Force Base, respectively. We adapted the table from Mull (2013d) to include only biological opinions in which habitat disturbance or re-vegetation efforts occurred in areas designated as critical habitat.

Biological opinion	Total acres of desert tortoise critical habitat disturbed		Total acres of re-vegetation
	Permanent	Temporary	
1-8-93-F-23	0.5846	1.59	0
1-8-94-F-6	12.452	79.036	55.45
1-8-94-F-19	0	1.77	0
Total	13.0366	82.396	55.45

Total acres of habitat disturbance and re-vegetation in desert tortoise critical habitat under biological opinions for Edwards Air Force Base from 1 January 1997 – 31 May 2013.

EFFECTS OF THE ACTION

As we described in the Description of the Proposed Action section of this biological opinion, the Air Force and Service evaluated each of the Air Force's proposed activities and listed the aspects of the activity that may affect desert tortoises or their habitat (including critical habitat). In this section of the analysis, we will provide a general description of how these various aspects affect desert tortoises and their habitat (including critical habitat).

After we review the general mechanisms of how the Air Force's activities may affect desert tortoises and their critical habitat, we will analyze the potential effects of the injury or death of up to 5 desert tortoises per year and the loss of up to 5,000 of critical habitat and 15,000 acres outside of critical habitat. The Air Force and Service developed these numbers as thresholds upon which to base the analysis of Future Development in this biological opinion and to provide a trigger for the re-initiation of formal consultation.

Desert tortoises less than 160 millimeters in length (including hatchlings and eggs) are difficult to detect. Surveyors are less likely to detect them than desert tortoises greater than 160 millimeters because hatchlings can take shelter in burrows of all sizes and are difficult to see due to their cryptic nature and their small size. Consequently, we expect that most hatchlings and eggs likely remain in work areas that have been cleared of larger desert tortoises. We anticipate that future activities are likely to result in injury or mortality of small (i.e., less than 160

millimeters in length) desert tortoises because they are more difficult to detect. Because of their cryptic nature and small size, these mortalities have potential to go undetected. We acknowledge that smaller desert tortoises and eggs may be killed during the implementation of the Air Force's activities; however, because they are difficult to detect and because larger individuals are more important for the long-term conservation of the species, we focused our analysis on larger individuals.

Driving Off Roads

Desert Tortoise

In general, the use of vehicles off of roads (paved or unpaved) can injure or kill desert tortoises; vehicles traveling off road can also crush desert tortoise burrows trapping individuals in their collapsed burrows. In contrast to recreational off-highway vehicle use, where numerous vehicles travel off road at high speeds and with little or no regard to natural resources, the Air Force's use of vehicles off road are prohibited under normal conditions, but limited off-road use may be required in emergencies or to support specific mission requirements. Because the off-road activities associated with range-ground operations and the expenditure of ordnance and energetic materials are expected to be infrequent and these activities would be controlled by the Air Force, we expect that use of vehicles off paved or unpaved roads is likely to injure or kill few desert tortoises.

Critical Habitat

In general, the use of vehicles off of roads (paved or unpaved) can destroy plants needed for cover and food, erode and compact substrates, cause proliferation of weeds, and increase in the number and location of wildfires. We do not expect that the use of vehicles off of roads, at the extent likely to be conducted by the Air Force, would have a measurable effect on the first primary constituent element of critical habitat (sufficient space to support viable populations within each of the six recovery units and to provide for movement, dispersal, and gene flow). We have reached this conclusion because the Air Force's use would be infrequent and monitored to the extent that it would not reduce the amount of habitat within critical habitat and prevent movement, dispersal, and gene flow.

The second through fifth primary constituent elements (sufficient quality and quantity of forage species and the proper soil conditions to provide for the growth of these species; suitable substrates for burrowing, nesting, and overwintering; burrows, caliche caves, and other shelter sites; sufficient vegetation for shelter from temperature extremes and predators) are related to the biological and physical aspects of critical habitat. We expect the low level of use of vehicles off roads, which will be appropriately monitored, would not affect the function of these aspects of the desert tortoise's habitat in a measurable manner.

This aspect of the Air Force's activities would minimally affect the sixth primary constituent element (habitat protected from disturbance and human caused mortality) because it would occur infrequently and be monitored.

Driving on Roads

Desert Tortoise

Desert tortoises are generally more easily observed on roads, because of their more even surfaces and lack of plant cover. Roads often allow vehicles to travel at higher speeds, which reduce the likelihood of drivers detecting and avoiding desert tortoises. Rises and turns in roads also decrease the ability of drivers to detect desert tortoises. Along heavily used roads, the number of desert tortoises is depressed for some distance from the edge of the road as a result of road-associated mortality; this distance varies with the level of use of the road. In general, vehicle use is likely to result in at least some mortalities of and injuries to desert tortoises; the extent of the loss is related to the condition of the road, the time of the year when vehicle use occurs, the abundance of desert tortoises, and the awareness of the driver. Even the most careful drivers may occasionally strike a desert tortoise.

To date, most of the reported desert tortoise mortalities that have occurred in the action area resulted from vehicles driving over them on roads during permitted activities (Mull 2013c). Additionally, personnel have moved many more from roadways. The Air Force addresses this threat in its protective measures by posting signs for reduced speed limits where appropriate. We expect this threat to persist throughout the action area.

Critical Habitat

The use of existing roads will not affect the second through fifth primary constituent elements because these physical and biological aspects of critical habitat are no longer present within roads. Roads that experience high levels of traffic can essentially form a barrier to movement, dispersal, and gene flow (first primary constituent element); we do not expect that any roads within Edwards Air Force Base within desert tortoise habitat experience this level of traffic. High levels of traffic may affect the sixth primary constituent element (habitat protected from disturbance and human caused mortality) by increasing the number of desert tortoises that are injured or killed; we do not anticipate that traffic levels in desert tortoise habitat would rise to such levels.

Ground Disturbance

Desert Tortoise

We consider ground disturbance to include any activity where the Air Force's activities disrupt vegetation and substrate through the use of heavy equipment and materials. Desert tortoises may be injured or killed or trapped in their burrows during these activities. Some of the Air Force's

activities may cause negligible amounts ground disturbance. Conversely, the construction of a new target or building may result in ground disturbance over a larger area.

Because the Air Force would use standard and successful measures and experienced staff to avoid injuring or killing desert tortoises during ground-disturbing activities, we expect that relatively few individuals are likely to be injured or killed as a result of ground disturbance.

Critical Habitat

Ground disturbance has the potential to adversely affect all the primary constituent elements of critical habitat. Small amounts of ground disturbance that are temporary in nature would generally affect critical habitat less than larger areas of permanent disturbance, although some indirect effects of smaller projects (e.g., the proliferation of weeds) can extend well beyond the temporal and spatial footprint of a project.

Explosions

Desert Tortoise

Ordnance or other materials associated with explosions could strike a desert tortoise directly. Additionally, unforeseen explosions such as an accidental crash of an unmanned aerial vehicle could also strike and injure or kill a desert tortoise. Such events are likely extremely rare, given the large area of the target sites, the sparse distribution of desert tortoises, and the relatively small area that the explosion would affect. Additionally, the Air Force's standard practice is to check areas within desert tortoise habitat before emergency scheduled explosions occur to remove any desert tortoises that may be present. Some potential exists that large explosions can cause over pressure vibrations that would cause nearby burrows to collapse and trap desert tortoises inside.

Desert tortoises may be injured by noise associated with explosions. Bowles et al. (1999) found that subsonic and supersonic aircraft noise did not elicit substantial responses from desert tortoises. If a desert tortoise were close to a large explosion, however, we expect that the noise would have the potential to cause physical damage to the animal. Because the Air Force inspects areas and would remove desert tortoises before explosions occur, few desert tortoises are likely to be injured or killed by explosions.

The Air Force's use of the target sites and open burn/open detonation facilities can reasonably be expected to start fires under the appropriate conditions. Therefore, we will consider these fires as a likely effect of explosions. Desert tortoises may be burned to death from fires started by weapons testing, open burn/open detonation activities in areas containing vegetation, lightning or aircraft crashes (Air Force 2008a). Fires can injure or kill desert tortoises that are away from their burrows; the use of fire equipment to fight fires could also kill desert tortoises. Larger fires during times of the year and day when desert tortoises are active are more likely to injure or kill desert tortoises than smaller fires when desert tortoises are inactive (i.e., in their burrows). Desert tortoises are less likely to be present in areas that have repeatedly burned, where non-

native grasses predominate; to the extent that at least some fires occur in such areas, the risk of desert tortoises being injured or killed by fire is somewhat reduced.

The Air Force's fire management measures are likely to reduce the potential for fires started at target sites. This measure is protective of desert tortoises because fires can kill desert tortoises that may be above ground.

Critical Habitat

The Air Force's use of explosives would not directly impair the value and function of critical habitat with regard to the first primary constituent element (sufficient space to support viable populations within each of the six recovery units and to provide for movement, dispersal, and gene flow). We have reached this conclusion because the explosions occur in relatively small areas that are used repeatedly. Most explosions would likely occur in areas that have been previously used for such work. However, if a large fire spread from target sites, the potential exists that habitat conditions could be altered to the extent that desert tortoises would no longer traverse such areas.

Large explosions would likely alter the quality and quantity of forage species and the soil conditions to provide for the growth of these species in new target areas (the second primary constituent element); target areas that have been used previously likely no longer support these features. Smaller explosions likely have little or no direct effect on this primary constituent element. As we previously discussed, fire spreading from a target area would likely reduce the value and function of this primary constituent element.

Large explosions likely damage substrates for burrowing, nesting, and overwintering (third primary constituent element) and burrows, caliche caves, and other shelter sites (fourth primary constituent element). Because most explosions would occur in previously used, defined target areas, damage to substrates and shelter sites is likely to be minimal. Fire may affect substrates and shelter sites if it removes sufficient plant cover to increase erosion during storm events. Large explosions would remove vegetation that desert tortoises use for shelter from temperature extremes and predators (the fifth primary constituent element), but generally in a limited area. This adverse effect would be reduced by the use of existing target sites. Fire would affect shelter sites provided by shrubs if it spreads beyond the disturbed target site.

The repeated use of target sites would reduce the potential for explosions to have a measurable effect on the sixth primary constituent element (habitat protected from disturbance and human-caused mortality) because the disturbance and potential for mortality of desert tortoises would be limited to a relatively small portion of critical habitat. Conversely, the creation of new bombing targets in critical habitat requires the Air Force to clear additional lands. As with the other primary constituent elements, fire that spreads beyond disturbed areas around the target sites would increase the adverse effect.

The Air Force's fire management measures likely reduce the potential that fires started at target sites would have a measurable effect on the primary constituent elements of critical habitat of the desert tortoise. One of the primary natural resources management goals of the base's integrated

natural resources management plan is to conserve natural resources in a manner consistent with the military mission and the base's wildland fire management plan by implementing effective suppression of wildland fires and minimizing fire and structural damage to biological resources (Air Force 2008b). Although Edwards Air Force Base has over 200,000 acres of unimproved vegetated terrain, the base has not had a history of a severe fire danger hazard over the past 25 years; lightning is the primary cause of fires on base (Air Force 2008b).

Non-native Plant Species

Desert Tortoise

Vehicles, ground disturbance, fire, and other human activities contribute to the dispersal of non-native plant species. These non-native plants include species that are already present in the California desert and newly introduced species. As we discussed in the Status of the Species and Critical Habitat section of this biological opinion, non-native plants can alter the quality and quantity of plant foods available to desert tortoises and thereby affect their nutritional intake.

Critical Habitat

The spread of non-native plant species may impair the value and function of the first primary constituent element (sufficient space to support viable populations within each of the six recovery units and to provide for movement, dispersal, and gene flow) if they become so widespread and dense that they reduce the ability of desert tortoises to forage over wide areas. This threat is most prominent in the action area where fires have the potential to alter habitat conditions on a large scale.

As we discussed in the Status of Critical Habitat of the Desert Tortoise section of this biological opinion, the function and value of the second primary constituent element (sufficient quality and quantity of forage species and the proper soil conditions to provide for the growth of these species) have been compromised to some degree throughout the range of the desert tortoise. The Air Force's activities, particularly near targets where fires are more likely, may exacerbate this threat.

The spread of non-native plant species is not likely to affect the third and fourth primary constituent element (suitable substrates for burrowing, nesting, and overwintering; burrows, caliche caves, and other shelter sites). We have reached this conclusion because the plants would not generally affect substrates or shelter sites used by desert tortoises.

Non-native plant species can degrade vegetation that desert tortoises use to seek shelter from temperature extremes and predators (the fifth primary constituent element), primarily by supporting larger and more intense fires. Most shrubs in the California desert are not adapted to fire. Once fire kills these shrubs, they are unlikely to return, thus depriving desert tortoises of shelter sites.

Habitat that is degraded by the presence of a large component of non-native species has not been protected from disturbance and human-caused mortality (the sixth primary constituent element). Consequently, spread of non-native plant species has the potential to further degrade the value and function of this primary constituent element.

As we discussed in the Status of the Desert Tortoise section of this biological opinion, current information indicates that invasive species likely affect a large portion of the desert tortoise's range. Non-native species can occur in densities that can increase the risk of fires, which, in turn, destroy native species and may result in future habitat loss. Non-native plant species currently occur throughout Edwards Air Force Base (see Appendix B in 2008b). The Air Force's wildland fire management plan (Appendix H in Air Force 2008b) has potential to reduce the spread of non-native plant species by implementing effective suppression of wildland fires and minimizing fire and structural damage to biological resources. In the event of a wildfire that may affect desert tortoises or their critical habitat, the Air Force and Service would consult under the emergency provisions of section 7(a)(2) of the Endangered Species Act.

Common Ravens

Desert Tortoise

The Air Force has proposed to manage its trash and debris to reduce the attractiveness of Edwards Air Force Base to common ravens. This protective measure would likely be effective in reducing some level of food subsidies to common ravens. We expect that buildings and other structures on the Edwards Air Force Base would continue to provide common ravens with more perching, roosting, and nesting sites than would be found in a natural setting. We also expect that common ravens also derive at least some food and water from the residential area of the installation. Future development may lead to an increase in the number of people using the residential area, which may, in turn, increase the amount of food and water available to common ravens. Any increase in the number of common ravens would likely result in increased predation of desert tortoises.

Critical Habitat

Common ravens do not affect the primary constituent element of critical habitat.

Moving Desert Tortoises from Harm's Way

Desert Tortoise

Some potential exists that capturing desert tortoises to move them from harm's way may cause elevated levels of stress that may render these animals more susceptible to disease. Because the Air Force will use experienced biologists approved by the Service and approved handling techniques, collected desert tortoises are unlikely to experience elevated stress levels. Information from a translocation project at Fort Irwin indicates that translocation of desert

tortoises in that study did not cause a measurable physiological stress response (Drake et al. 2012). In the case of Fort Irwin, the animals were often moved far from their home ranges. Because the Air Force's activities are of a smaller scale, desert tortoises moved from harm's way would likely remain within their home ranges; therefore, we expect that the potential for these animals to be stressed is even lower.

Critical Habitat

Moving desert tortoises from harm's way will not affect critical habitat because this activity primarily involves the transport of individuals a relatively short distance by a biologist who is traveling on foot. Neither the desert tortoises themselves nor the personnel who transport them will affect the primary constituent elements of critical habitat. The construction of artificial burrows would disturb limited areas where annual plants could grow and their supporting substrates; however, this disturbance will not measurably affect the value or function of the primary constituent elements of critical habitat.

Personnel on Foot

Desert Tortoise

Because of their small size, hatchlings and slightly larger desert tortoises could be trampled by foot traffic. Nests are also vulnerable, but their typical location, near the mouth of a burrow, likely protects them to some degree.

We expect that few desert tortoises would be injured or killed in this manner because most Air Force personnel working in desert tortoise habitat will receive specific training, which would increase their awareness of this potential threat. Additionally, we expect that the likelihood of stepping on desert tortoises would generally be low because most activities involving personnel on foot would occur in a relatively limited area of the base and most frequently in situations where the Air Force has conducted surveys to protect desert tortoises.

Critical Habitat

This activity will not affect the primary constituent elements of critical habitat because of the general low level and intensity of use.

Habitat Conversion

Desert Tortoise

Various activities that the Air Force may undertake have the potential to cause habitat conversion. The act of converting habitat from an area that is suitable for desert tortoises into some other environment has the potential to kill the individuals living in that area. Generally, the

heavy equipment that is involved in the conversion of habitat would crush any desert tortoises that are present.

As we have discussed previously in this biological opinion, other factors, such as fire and an overabundance of non-native species can, either together or separately, convert an area of suitable habitat for desert tortoises into something that is far less able to support them. Over time, desert tortoises that are forced to live in such areas are likely to die as a result of starvation; prior to that, their reproductive output would likely be lower because of their poorer physiological condition.

Critical Habitat

Suitable habitat generally is that which contains the primary constituent elements of critical habitat in a functioning condition. In the context of critical habitat, habitat conversion would occur when the amount of disturbance or alteration of a primary constituent element removes its function or value. Any ground-based activity that the Air Force undertakes could potentially disturb or alter, to some degree, the primary constituent elements. As examples, the extensive use of off-road vehicles could decrease the amount of space needed to support a viable population of desert tortoises and to provide for movement, dispersal, and gene flow within the Western Mojave Recovery Unit. Vehicles traveling off roads could decrease the quality and quantity of forage species and the substrate conditions that support the growth of these species and for burrowing; off-road travel could also destroy burrows, caliche caves, and other shelter sites and the perennial vegetation that desert tortoises use for shelter from temperature extremes and predators. Off-road vehicle use would increase the amount of disturbance and human-caused mortality in the area in which it occurred.

Future Development

In this biological opinion, we considered future development to be any activity that the Air Force undertakes for which this biological opinion serves as compliance with the Endangered Species Act. Consequently, we consider the future injury or death of any desert tortoise that may result from an otherwise legal activity to have been analyzed in this biological opinion, provided that it is within the parameters proposed by the Air Force. With regard to habitat and critical habitat, we expect the Air Force to track any loss of habitat or critical habitat caused by any otherwise legal activity it conducts or authorizes. Disturbance resulting from activities that occur in previously disturbed areas that do not support the biological or physical attributes of desert tortoise habitat or in undisturbed natural areas that do not support desert tortoise habitat (e.g., dry lake beds) would not be considered to involve the loss of desert tortoise habitat.

Desert Tortoise

The regulatory definition of “to jeopardize the continued existence of the species” focuses on assessing the effects of the proposed action on the reproduction, numbers, or distribution of the species being considered in the biological opinion. For that reason, we have used those aspects

of the desert tortoise's status as the basis to assess the overall effect of the proposed action on the species.

In the first portion of the Effects of the Action section of this biological opinion, we provided a general description of how the various activities that the Air Force expects to undertake are likely to affect desert tortoises. In the following sections, we will use the proposed re-initiation threshold of five desert tortoises killed in a year to determine how the future operation of Edwards Air Force Base would affect the reproduction, number, and distribution of the desert tortoise. We will then assess the effects of the proposed action on the recovery of the species and whether it is likely to appreciably reduce the likelihood of both the survival and recovery of the desert tortoise. We reach our conclusion regarding whether an action is likely "to jeopardize the continued existence of the species" through an analysis of how a proposed action affects the listed taxon within the action area in relation to the range of the entire listed taxon. For the desert tortoise, this process involves considering the effects at the level of the action area, then at the level of the recovery unit (in this case, the Western Mojave Recovery Unit), and then finally for the range of the listed taxon. Logically, if an aspect of the proposed action is unlikely to cause a measurable effect within the action area, it is unlikely to affect the recovery unit or the remainder of the range.

Reproduction

The reproductive output of individuals of a species is determined in part by the species' breeding ecology, overall abundance of breeding individuals, and the condition of the habitat in which they live. The reproductive output of the desert tortoise is governed by several aspects of its breeding ecology: the delayed onset of breeding, many years of reproduction, high mortality rates of eggs and young, and low mortality rates among adults. If the population of desert tortoises at Edwards Air Force Base was stable or increasing, the loss of five individuals per year to human activities would be unlikely to have a measurable effect on its overall reproductive capacity. The long reproductive life of female desert tortoises and the normally low mortality rates among adult animals are factors that would protect the reproductive output of a population.

The overall abundance of breeding individuals would also influence how the loss of five desert tortoises per year affects their reproductive output at Edwards Air Force Base. In general, desert tortoises occur at low densities in most areas of the base; the highest density is 58 desert tortoises over one square mile. In some areas, their densities are extremely low. The effects of the mortality of five desert tortoises per year within Edwards Air Force Base may negatively affect the amount of reproduction for several reasons. First, the loss of even a small number of individuals in a low-density population could render finding mates more difficult. Second, desert tortoises require from 13 to 20 years to reach sexual maturity. Third, females produce a relatively small number of eggs per year. Fourth, desert tortoises also experience high mortality early in life (including as eggs). Consequently, even moderate downward fluctuations in adult survival rates can result in rapid population declines; slow reproductive rates and high juvenile mortality limit the capacity of populations to increase rapidly after a decline (Service 2011a).

The desert tortoise possesses two safeguards against the loss of reproduction in areas of low population density. First, female desert tortoises can store sperm for several years; this trait provides some hedge against low densities precluding reproduction because females do not need to encounter males every year to produce young. Second, breeding-age desert tortoises would continue to produce young over their long reproductive life; this reproductive output could replace individuals that are killed by the Air Force's activities.

The amount and timing of rainfall in the desert greatly influences the production of native annual plants upon which desert tortoises feed. A high diversity and abundance of annual plants provide desert tortoises with the appropriate quality and quantity of food to persist and to produce eggs. The widespread invasion of non-native annual plants has likely reduced the desert tortoise's ability to obtain the appropriate quality and quantity of forage plants on a consistent basis. Human disturbance of substrates and increased frequency of fires render desert habitat more susceptible to invasion by non-native annual plants. The Air Force does not implement specific measures to control weed infestations that its activities may cause. Consequently the Air Force's activities have the potential to indirectly affect desert tortoise habitat well outside the footprint of areas that it directly disturbs. Some potential exists that non-native plants are already established at Edwards Air Force Base to the degree that the Air Force's activities would not exacerbate the situation. If the Air Force introduced new species of invasive plants during its activities or expanded the area of infestation of invasive species already on base, the quality of desert tortoise habitat would likely further decrease; such a decrease would negatively affect the ability of Edwards Air Force Base to support the reproduction of desert tortoises at the highest levels of productivity.

Based on these factors, we conclude that the loss of five individuals per year to the Air Force's activities is likely to cause a minor depression of reproduction of desert tortoises at Edwards Air Force Base. We acknowledge that all five individuals may not be of reproductive age; the loss of non-reproductive individuals would not have an immediate effect on reproduction. We also acknowledge that the loss of younger animals would reduce their potential recruitment into breeding age individuals.

Our determination with regard to whether a proposed action is likely to jeopardize the continued existence of a species is based on the status of the listed taxon throughout its range and not just within the action area. Consequently, although the loss of five desert tortoises per year at Edwards Air Force Base is likely to cause a minor depression of reproduction of desert tortoises at Edwards Air Force Base, this loss is unlikely to have a measurable effect on the reproduction of desert tortoises within the Western Mojave Recovery Unit or range wide. We have reached this conclusion because Edwards Air Force Base comprises a small portion of the Western Mojave Recovery Unit and an even smaller portion of the species' range. The next section of this analysis provides insight into the numbers of desert tortoises within Edwards Air Force Base, the Western Mojave Recovery Unit, and range wide.

Number

We used the reports on range-wide sampling for the last 3 years (Service 2012b, 2012c, 2012d) to assess how the loss of 5 individuals per year at Edwards Air Force Base would affect the desert tortoise, first within the Western Mojave Recovery Unit (which is where Edwards Air Force Base is located) and then throughout its range. The numbers in the following table are desert tortoises that are greater than 180 millimeters in length that reside in the sampled areas of critical habitat and other desert tortoise conservation areas; because these numbers do not include smaller individuals and desert tortoises that reside outside the sampled areas, we expect that more desert tortoises occur in the Western Mojave Recovery Unit and throughout the range than are represented in this table. Because of the complexity involved with sampling desert tortoises on such a large scale, the changes in numbers from year to year are more likely from sampling error than actual trends or changes in the number of individuals.

Year	Area of Estimate	Number of Desert Tortoises		
		Estimated	Lower 95 Percent CI	Upper 95 Percent CI
2010	Western Mojave	20,264	13,153	31,329
	Range-wide	95,145	77,038	117,511
2011	Western Mojave	21,533	12,600	37,120
	Range-wide	99,568	69,324	143,007
2012	Western Mojave	22,260	19,894	46,735
	Range-wide	71,827	46,685	110,509

To assume the most conservative approach to this analysis, we assumed that the actual numbers of desert tortoises in the Western Mojave Recovery Unit and range wide were the lowest results from these 3 years (12,600 and 46,685). We also assumed that all five desert tortoises that die would be reproductive. These losses amount to approximately 0.04 and 0.01 percent of the number of desert tortoises over 180 millimeters within sampled areas in Western Mojave Recovery Unit and throughout the range; these percentages would decrease even further if we considered all desert tortoises through the entire recovery unit and range.

Because the Air Force's activities would continue over time, we also calculated how the loss of five individuals over a 20-year period would affect desert tortoise populations. The loss of 100 desert tortoises would comprise approximately 0.79 and 0.21 percent of the Western Mojave Recovery Unit and range-wide populations, respectively.

We acknowledge that we cannot predict whether the numbers of desert tortoises at Edwards Air Force Base, within the Western Mojave Recovery Unit, or range wide would change over the next 20 years. If the number of desert tortoises at Edwards Air Force Base decreases, we expect that the Air Force would encounter fewer individuals while it is implementing actions and, therefore, fewer individuals are likelier to die. If more desert tortoises number occur at Edwards Air Force Base in the future, the risk that desert tortoises would die at any given project would increase but the Air Force's proposed protective measures (including a commitment to re-initiate

formal consultation if five are killed in a year) would prevent an appreciable increase in mortalities.

Consequently, based on the best available information, we conclude that the loss of five desert tortoises per year is not likely to appreciably diminish the number of desert tortoises, either within the Western Mojave Recovery Unit or range wide.

We did not discuss the injury of desert tortoises in this section. The implementing regulations for section 7 of the Endangered Species Act at 50 Code of Federal Regulations 402.14(i)(1)(iv) require the Service to specify the procedures to be used to handle or dispose of any individuals of a species that is killed or injured during the implementation of a proposed action that has undergone formal consultation. Consequently, in the Incidental Take Statement - Disposition of Dead or Injured Specimens section of this biological opinion, we will direct the Air Force to take injured desert tortoises to a qualified veterinarian for treatment and to contact us regarding the final disposition any these animals. If they recover from their injuries to the extent that they can be released to the wild, these animals would not be included in the annual count of dead desert tortoises.

Distribution

Edwards Air Force Base occupies approximately 307,516 acres. Of this total, areas of unsuitable habitat (e.g., Buckhorn, Rogers, and Rosamond dry lakes), cantonment areas; research facilities, fenced operational areas, graded targets, other operational areas, and housing cover approximately 80,640 acres. Consequently, approximately 226,876 acres of desert tortoise habitat occur on base.

The Air Force has proposed to re-initiate formal consultation if 20,000 acres of desert tortoise habitat (15,000 acres outside of critical habitat boundaries and 5,000 within the boundaries of critical habitat) are disturbed by future development. This amount of long-term disturbance would comprise up to approximately 9.09 percent of the desert tortoise habitat on Edwards Air Force Base. Previous consultations with the Air Force generally involved numerous actions that affected scattered, relatively small areas of desert tortoise habitat across Edwards Air Force Base. We expect this general pattern to continue. One exception is the Air Force's proposal to allow for the development and operation of a large solar plant in the northwest corner of Edwards Air Force Base. This solar plant may occupy up to 4,000 acres. We do not have information on the final design of the plant at this time; however, some potential exists that the Air Force and operator would not exclude desert tortoises from the entire project area during its operation.

This future development, including the solar plant in the northwestern corner of the base, would reduce the amount of habitat on base and increase, to some degree, the amount of fragmentation on a local scale. Based on the Nussear et al. (2009, using values of 0.5 to 1) model and our calculations (Waln 2010), the Western Mojave Recovery Unit may support up to 10,316 square miles of desert tortoise habitat. Consequently, the proposed action would result in the loss of approximately 0.30 percent of the habitat in the Western Mojave Recovery Unit. (That is,

20,000 acres of disturbance divided by 640 acres per square mile equals 31.25 square miles. 31.25 square miles divided by 10,316 square miles equals 0.00302. 0.00302 multiplied by 100 equals 0.30 percent.) Because the area that may be disturbed at Edwards Air Force Base is a small proportion of the available habitat in the Western Mojave Recovery Unit and because most of the projects that the Air Force undertakes would be relatively small and scattered throughout

the base, we do not expect this loss of habitat to appreciably reduce the distribution of the desert tortoise with regard to the Western Mojave Recovery Unit.

This loss would comprise approximately 0.11 percent of the range-wide distribution of the desert tortoise, which covers approximately 28,417 square miles, using the values of 0.5 to 1 in the Nussear et al. (2009) model and our calculations (Waln 2010). (That is, 31.25 square miles of disturbance divided by 28,417 square miles equals 0.00109. 0.00109 multiplied by 100 equals 0.11 percent.) This loss of habitat is unlikely to appreciably reduce the distribution of the desert tortoise in relation to the range of the listed taxon.

Critical Habitat

We have previously discussed how the various aspects of the Air Force's activities would affect the primary constituent elements of critical habitat, so we will not repeat those analyses here. For the purposes of this analysis, we will assume that any future development within critical habitat is likely to reduce or eliminate the function of the primary constituent elements within the boundaries of that project's area; in terms of the analysis, this assumption likely overstates the effect because some of the primary constituent elements would likely remain after the implementation of at least some of the future actions.

The Air Force anticipates that it may need up to 5,000 acres for the development of new facilities, infrastructure, and new or expanded targets within the approximately 60,800 acres of critical habitat that lie within Edwards Air Force Base. Future development would likely be scattered throughout critical habitat in variously sized parcels. We expect that the Air Force is unlikely to situate larger developments within critical habitat because larger facilities would require more infrastructure support and most of the existing infrastructure is located outside of critical habitat.

The loss or disturbance of 5,000 acres of critical habitat during future development and operations of Edwards Air Force Base has the potential to increase the patchiness of suitable habitat because it could occur in numerous locations. Conversely, we do not expect that scattered development throughout the area of critical habitat within Edwards Air Force Base would measurably affect connectivity, either within or outside of the base. This amount of disturbance would also occupy a relatively small area of the critical habitat on base.

The 5,000 acres comprise approximately 0.96 percent of the Fremont-Kramer Critical Habitat Unit. (That is, 5,000 acres of development divided by 518,000 acres of critical habitat within the Fremont-Kramer Critical Habitat Unit times 100 equals 0.96 percent.) The Service must

consider the effects of a proposed action with regard to the entirety of the 6,446,200 acres of critical habitat that it designated. The 5,000 acres that may be lost or disturbed at Edwards Air Force Base comprise approximately 0.08 percent of critical habitat throughout the range. Because the amount of critical habitat to be lost or disturbed is so small relative to the entire designated area, it is not likely to appreciably diminish the value or function of critical habitat.

Effects on Recovery

Edwards Air Force Base occupies a relatively small portion of the Western Mojave Recovery Unit and an even smaller portion of the range of the desert tortoise. Consequently, the activities that the Air Force conducts on base under consideration in this biological opinion are unlikely to have an appreciable direct effect, either positively or negatively, on the recovery of the desert tortoise. The relatively small number of desert tortoises that we expect the Air Force to kill annually is unlikely to appreciably diminish the ability of the desert tortoise to reach stable or increasing population trends in the future. The Air Force's efforts to re-vegetate disturbed areas, close unneeded roads and unused excavations to reduce mortality of desert tortoises, and install exclusion fence and warning signs along roads to reduce mortality on active roads are likely to promote the conservation of the species within Edwards Air Force Base.

We do not consider the maintenance of head starting pens to raise desert tortoises for release to the wild to be an effective tool for recovery of the species at this time. Mortality rates among wild desert tortoises likely remain too high for desert tortoises released from head-starting pens to result in an expanded population; we also suspect that recruitment of reproductive animals from the ranks of juvenile desert tortoises is not occurring at a sustainable rate in at least some areas of the desert. Various studies have shown that protection of reproductive desert tortoises would contribute far more to the stabilization of population trends than the release of smaller individuals. Until we can improve the survival rate of reproductive desert tortoises (and rate of recruitment of juveniles to a reproductive size), the practice of head starting is highly unlikely to affect an increase in wild populations.

The Readiness and Environmental Protection Initiative would implement an important recovery task for the desert tortoise through the Air Force's acquisition in fee title or by easement lands with critical habitat that lie to the east of the base. These acquisitions would preclude the development of the land; such development is generally detrimental, both directly and indirectly, to the long-term conservation of the desert tortoise.

Overall, the operation of Edwards Air Force Base, as described in this biological opinion, including the development of solar energy facilities, is unlikely to adversely affect the recovery of the desert tortoise. We expect the adverse effects of the Air Force's operations to be relatively minor in relation to the range-wide status of the desert tortoise; the Air Force's on-base programs to restore habitat and reduce the mortality of desert tortoises have the potential to offset, to some degree, the adverse effects of its operations. If the Readiness and Environmental Protection Initiative is successfully implemented over time, the removal of the threat of development on

lands important to the long-term conservation of the desert tortoise would constitute an overall positive effect on recovery.

CUMULATIVE EFFECTS

Cumulative effects include the effects of future State, tribal, local or private actions that are reasonably certain to occur in the action area considered in this biological opinion. Future Federal actions that are unrelated to the proposed action are not considered in this section because they require separate consultation pursuant to section 7 of the Act. Most of the action area is entirely located within Edwards Air Force Base and is therefore on Federal lands; any future actions will be subject to the consultation requirements of section 7(a)(2) of the Act. A small portion of the action area extends from the northwestern corner of Edwards Air Force Base to the Windhub Substation on Oak Creek Road. We are unaware of any non-federal actions that are reasonably certain to occur in this area. Consequently, the proposed action has no associated cumulative effects.

CONCLUSION

Desert Tortoise

After reviewing its current status, the environmental baseline for the action area, the effects of the proposed action, and the cumulative effects, it is the Service's biological opinion that the proposed action is not likely to jeopardize the continued existence of the desert tortoise. We have reached this conclusion for the following reasons. First, the Air Force has proposed measures to reduce the number of desert tortoises that are likely to be injured or killed in the course of its activities. Second, the few desert tortoises that the Air Force is likely to kill is a minor fraction of the number of desert tortoises range-wide; the loss of these animals is unlikely to measurably affect the number of desert tortoises or reproductive capacity of the listed taxon. Third, the Air Force's efforts to reduce hazards to desert tortoises (e.g., fencing roads and closing excavation in which they can become trapped) are likely to reduce the level of ongoing mortality on base. Fourth, the loss of habitat that is likely to occur during future activities at Edwards Air Force Base will not appreciably reduce the distribution of the desert tortoise.

Critical Habitat of the Desert Tortoise

After reviewing the current status of critical habitat, the environmental baseline for the action area, the effects of the proposed action, and the cumulative effects, it is the Service's biological opinion that the proposed action is not likely to result in the destruction or adverse modification of critical habitat of the desert tortoise. We have reached this conclusion because the amount of critical habitat that is likely to be affected comprises a small portion of the total amount of the critical habitat on Edwards Air Force Base, which itself is a small portion of the larger Fremont-Kramer Critical Habitat Unit and an even smaller portion of critical habitat range wide. Therefore, the amount of disturbance is not likely to compromise the conservation function and value of critical habitat for the desert tortoise.

INCIDENTAL TAKE STATEMENT

Section 9 of the Act and Federal regulation pursuant to section 4(d) of the Act prohibit the take of endangered and threatened wildlife species, respectively, without special exemption. Take is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. Harm is further defined by the Service to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. Harass is defined by the Service as an intentional or negligent act or omission which creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering. Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of section 7(b)(4) and section 7(o)(2), taking that is incidental to, and not the purpose of, the agency action is not considered to be prohibited taking under the Act provided that such taking is in compliance with the terms and conditions of this incidental take statement and the avoidance and minimization measures proposed by the Air Force.

The measures described below are non-discretionary; the Air Force must implement these measures during the conduct of its activities or include them as binding conditions of any grant or permit issued to its customers and contractors, as appropriate, for the exemption in section 7(o)(2) to apply. The Air Force has a continuing duty to regulate the activity covered by this incidental take statement. If the Air Force fails to assume and implement the terms and conditions or fails to require its customers and contractors to adhere to the terms and conditions of the incidental take statement through enforceable terms that are added to the permit or grant document, the protective coverage of section 7(o)(2) may lapse. To monitor the impact of incidental take, the Air Force must report the progress of the actions and its impact on the species to the Service as specified in the incidental take statement (50 Code of Federal Regulations 402.14(i)(3)).

The Service anticipates that five desert tortoises per year are likely to be taken, in the form of mortality, as a result of the operation of Edwards Air Force Base. We derived this number through discussions with the Air Force and used it as the basis of our section 7(a)(2) analysis in this biological opinion. This number also serves as a basis for the re-initiation of formal consultation.

We do not expect removing desert tortoises from harm's way during the implementation of the Air Force's activities to result in their injury or mortality. Therefore, we are not including an anticipated amount or extent of this form of take (i.e., capture).

REASONABLE AND PRUDENT MEASURES AND TERMS AND CONDITIONS

The Air Force and Service agreed to several revisions to the proposed action during the course of formal consultation. Because these revisions have been incorporated into the proposed action of

this biological opinion, we have no additional reasonable and prudent measures or terms and conditions.

As described at the beginning of this section, the protective coverage of section 7(o)(2) may lapse if the Air Force does not abide by the protective measures described in this biological opinion. Additionally, the Air Force remains responsible for complying with the provisions of

Reporting Requirements and Disposition of Dead or Injured Specimens sections of this biological opinion.

REPORTING REQUIREMENTS

Pursuant to 50 Code of Federal Regulations 402.14(i)(3), the Air Force must provide a report to the Service that provides details on each desert tortoise that is killed or injured by its activities. In addition to the information that the Air Force will provide to the Service in its annual report, as described in the Administration of the Consultation section of this biological opinion, the report must also include information on any instances when desert tortoises were killed, injured, or handled, the circumstances of such incidents, and any actions undertaken to prevent similar instances from re-occurring. The report must also include a description of the monitoring efforts that occurred during implementation of actions that occur with desert tortoise habitat.

DISPOSITION OF DEAD OR INJURED SPECIMENS

Within 3 days of locating any dead or injured desert tortoises, the Air Force must notify the Ventura Fish and Wildlife Office by telephone (805 644-1766) and by facsimile or electronic mail. The report must include the date, time, and location of the carcass, a photograph, cause of death, if known, and any other pertinent information.

The Air Force must take any injured desert tortoises to a qualified veterinarian for treatment. If any injured desert tortoises survive, the Air Force must contact the Service regarding their final disposition.

Care must be taken in handling dead specimens to preserve biological material in the best possible state for later analysis, if such analysis is needed. The Service will make this determination when the Air Force provides notice that a desert tortoise has been killed by project activities.

CONSERVATION RECOMMENDATIONS

Section 7(a)(1) of the Act directs Federal agencies to use their authorities to further the purposes of the Act by carrying out conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary agency activities to minimize or avoid adverse effects of a proposed action on listed species or critical habitat, to help implement recovery plans, or to develop information.

The Service recognizes the effort that the Air Force's undertakes to conserve desert tortoises and their habitat. To meet its obligations under section 7(a)(1) of the Act, the Air Force has implemented several actions. For example, the Air Force has provided funds or personnel to conduct line-distance sampling within the Fremont-Kramer Critical Habitat Unit; the data generated by this sampling effort assists the Service in determining population trends across the range of the desert tortoise.

The Air Force is also working in conjunction with nongovernment conservation organizations to acquire lands through the Readiness and Environmental Protection Initiative program. This program supports cost-sharing partnerships authorized by Congress between the military, private conservation groups, and state and local governments to protect military test and training capabilities and conserve land. In the case of Edwards Air Force Base, the Air Force's goal of maintaining open space under the test flight corridors to the north of the base coincides with the Service's goal of conserving critical habitat of the desert tortoise.

The Air Force plans to continue to close and rehabilitate off-highway vehicle routes near the base and within the Fremont-Kramer Critical Habitat Unit to protect regional desert tortoise populations. Within Edwards Air Force Base, the Air Force plans to continue efforts to install desert tortoise barrier fencing and culverts along heavily traveled roads crossing desert tortoise habitat. The Air Force will prioritize the fencing of areas with high densities of desert tortoises or critical habitat; implementation of these actions is contingent upon available funding. To date, the Air Force has installed approximately 13 miles of desert tortoise exclusionary fencing along roads within Edwards Air Force Base.

In addition to these actions, we also recommend that the Air Force:

1. Assist the Service in implementation of the management plan for the common raven, control of feral dogs, management of subsidies for coyotes (*Canis latrans*), and numerous other activities that are intended to reduce the mortality levels of desert tortoises and improve habitat conditions.
2. Mark small desert tortoises from within project sites prior to their movement from harm's way or translocation. This marking would provide some information on their post-project status if they are encountered during future surveys or monitoring efforts. If the Air Force determines that it will include this requirement, we suggest that the authorized biologist contact the Desert Tortoise Recovery Office to ascertain the most appropriate means of marking the animals.

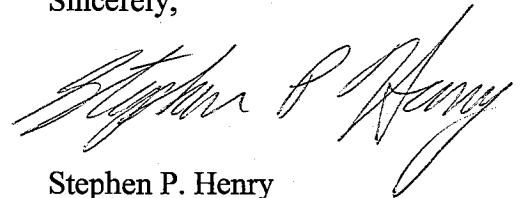
The Service requests notification of the implementation of any conservation recommendations so we may be kept informed of actions minimizing or avoiding adverse effects or benefitting listed species or their habitats.

RE-INITIATION NOTICE

This concludes formal consultation on operations at Edwards Air Force Base. As provided in 50 CFR 402.16, re-initiation of formal consultation is required where discretionary Federal involvement or control over the action has been retained or is authorized by law and: (1) if the amount or extent of taking specified in the incidental take statement is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in this opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, the exemption issued pursuant to section 7(o)(2) will have lapsed and any further take would be a violation of section 4(d) or 9. Consequently, we recommend that any operations causing such take cease pending re-initiation.

If you have any questions, please contact Rachel Henry or Ray Bransfield of my staff at (805) 644-1766, extension 333 and 317.

Sincerely,



Stephen P. Henry
Acting Field Supervisor

Appendices

1. Mojave population of the desert tortoise (*Gopherus agassizii*). 5-year review: summary and evaluation. Available on disk or hard copy by request or at http://ecos.fws.gov/docs/five_year_review/doc3572.DT%205Year%20Review_FINAL.pdf.
2. Solar projects for which the U.S. Fish and Wildlife Service has issued biological opinions or incidental take permits.

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Appendix 2. Solar projects for which the U.S. Fish and Wildlife Service has issued biological opinions or incidental take permits.

The following table summarizes information regarding the proposed solar projects that have undergone formal consultation with regard to the desert tortoise. In the Citations column, a single reference indicates that the acres of desert tortoise habitat and number of desert tortoises are estimates from the biological opinion; when the column includes two citations, the first is for the acres of desert tortoise habitat from the biological opinion and the second is for number of desert tortoises that are known to have been translocated or killed during construction.

Project and Recovery Unit	Acres of Desert Tortoise Habitat	Desert Tortoises Estimated ¹	Desert Tortoises Observed ²	Citations ³
Eastern Mojave				
Ivanpah Solar Electric Generating System	3,582	1,136	173	Service 2011a, 2013d
Stateline Solar	1,685	94	-	Service 2013a
Silver State North – NV	685	14	4	Service 2010a, Cota 2013
Silver State South – NV	2,427 ⁴	122 ⁴	-	Service 2013a
Amargosa Farm Road – NV	4,350	4	-	Burroughs 2012
Western Mojave				
Abengoa Harper Lake	Primarily in abandoned agricultural fields	4	-	Service 2011b
Chevron Lucerne Valley	516	10	-	Service 2010b
Northeastern Mojave				
Nevada Solar One - NV	400	5	5	Burroughs 2012, 2014
Copper Mountain North - NV	1,400	30 ⁵	30 ⁵	Burroughs 2012, 2014
Copper Mountain - NV	380	5	5	Burroughs 2012, 2014
Moapa K Road Solar - NV	2,141	186	157	Service 2012, Burroughs 2013
Colorado				
Genesis	1,774	8	0	Service 2010c, Fraser 2014
Blythe	6,958	30	-	Service 2010d
Desert Sunlight	4,004	56	7	Service 2011c, Fraser 2014
McCoy	4,533	15	-	Service 2013b
Desert Harvest	1,300	5	-	Service 2013c
Rice	1,368	18	1	Service 2011d, Fraser 2014
Total	37,503	1,732	372	

1. The numbers in this column are not necessarily comparable because the methodologies for estimating the numbers of desert tortoises occasionally vary between projects.
2. This column reflects the numbers of desert tortoises observed within project areas. It includes translocated animals and those that were killed by project activities. Project activities may result in the deaths of more desert tortoises than are found.
3. The first citation in this column is for the biological opinion or incidental take permit and is the source of the information for both acreage and the estimate of the number of desert tortoises. The second is for the number of desert tortoises observed during construction of the project; where only one citation is present, construction has not begun or data are unavailable at this time.
4. These numbers include Southern California Edison's Primm Substation and its ancillary facilities.
5. These projects occurred under the Clark County Multi-species Habitat Conservation Plan; the provisions of the habitat conservation plan do not require the removal of desert tortoises. We estimate that all three projects combined will affect fewer than 30 desert tortoises.

The Service completed consultation on the Calico and Palen projects. The applicant for the Calico project, which was located in the Western Mojave Recovery Unit, has abandoned the project and the Bureau has withdrawn the request for consultation (Bureau 2013). For the Palen project, which is located in the Colorado Desert, BrightSource Energy acquired the project from its former owner and proposed to use power tower technology. The California Energy Commission denied the application but will allow BrightSource Energy to re-apply if it can resolve the issues the California Energy Commission raised. Because of the change in technology, the Bureau re-initiated formal consultation with the Service. As of the March 7, 2014, the Service and Bureau have not completed formal consultation on this project; consequently, we have removed it from the table.

Appendix 2: References Cited

- Bureau of Land Management. 2013. Withdrawal of request for re-initiation of consultation for the Calico Solar Project. Dated August 09. Memorandum to Field Supervisor, Ventura Fish and Wildlife Office, Ventura, California. From Deputy State Director, California State Office. Sacramento, California.
- Burroughs, M. 2012. Electronic mail. Information on solar projects in desert tortoise habitat in Nevada for which the Service has issued biological opinions. Dated April 26. Fish and Wildlife Biologist, Southern Nevada Field Office, U.S. Fish and Wildlife Service. Las Vegas, Nevada.
- Burroughs, M. 2013. Electronic mail. Comments on the draft biological opinion for the Stateline and Silver State Solar South projects, San Bernardino County, California, and Clark County, Nevada (Stateline: 2800(P), CACA-048669, CAD090.01; Silver State South: 6840 (NV-052)) (Stateline: 8-8-13-F-43; Silver State South: 84320-2010-F-0208-R003). Dated September 23. Biologist, Southern Nevada Field Office, U.S. Fish and Wildlife Service. Las Vegas, Nevada.
- Burroughs, M. 2014. Electronic mails. Status of solar projects in Nevada. Dated January 27. Biologist, Southern Nevada Field Office, U.S. Fish and Wildlife Service. Las Vegas, Nevada.
- Cota, M. 2013. Electronic mail. Comments on the draft biological opinion for the Stateline and Silver State Solar South projects, San Bernardino County, California, and Clark County, Nevada (Stateline: 2800(P), CACA-048669, CAD090.01; Silver State South: 6840 (NV-052)) (Stateline: 8-8-13-F-43; Silver State South: 84320-2010-F-0208-R003). Dated September 18. Wildlife biologist, Pahrump Field Office, Bureau of Land Management. Las Vegas, Nevada.
- Davis, D. 2013. Electronic mail. Number of desert tortoises being monitored as control animals for the Ivanpah Solar Electric Generating System. Dated September 9. Senior Compliance Manager, BrightSource Energy, Inc. Oakland, California.
- Fraser, J. 2014. Electronic mails. Status of solar projects in Colorado Desert. Dated January 27 and 28. Biologist, Palm Springs Fish and Wildlife Office, U.S. Fish and Wildlife Service. Palm Springs, California.
- U.S. Fish and Wildlife Service. 2010a. Formal consultation for the Silver State Solar Project (NextLight Renewable Power, LLC), Clark County, Nevada. File No. 84320-2010-F-0208. Dated September 16. Memorandum to Field Manager, Pahrump Field Office, Bureau of Land Management, Las Vegas, Nevada. From State Supervisor, Nevada Fish and Wildlife Office. Reno, Nevada.

- U.S. Fish and Wildlife Service. 2010b. Biological opinion on the Lucerne Valley Chevron Solar Project, San Bernardino County, California (8-8-10-F-6). Memorandum to Field Manager, Barstow Field Office, Bureau of Land Management, Barstow, California. Dated June 10. From Field Supervisor, Ventura Fish and Wildlife Office. Ventura, California.
- U.S. Fish and Wildlife Service. 2010c. Biological opinion on the Genesis Solar Energy Project, Riverside County, California. Memorandum to Field Manager, Palm Springs South Coast Field Office, Bureau of Land Management, Palm Springs, California. Dated November 2. From Field Supervisor, Carlsbad Fish and Wildlife Office. Carlsbad, California.
- U.S. Fish and Wildlife Service. 2010d. Biological opinion on the Blythe Solar Power Plant, Riverside County, California. Memorandum to Field Manager, Palm Springs South Coast Field Office, Bureau of Land Management, Palm Springs, California. Dated October 8. From Field Supervisor, Carlsbad Fish and Wildlife Office. Carlsbad, California.
- U.S. Fish and Wildlife Service. 2011a. Biological opinion on BrightSource Energy's Ivanpah Solar Electric Generating System Project, San Bernardino County, California [CACA-48668, 49502, 49503, 49504] (8-8-10-F-24R). Dated June 10. Memorandum to District Manager, California Desert District, Bureau of Land Management, Moreno Valley, California. From Field Supervisor, Ventura Fish and Wildlife Office. Ventura, California.
- U.S. Fish and Wildlife Service. 2011b. Biological opinion on the Mojave Solar, LLC's Mojave Solar Project, San Bernardino County, California (8-8-11-F-3). Letter sent to Director of Environmental Compliance, Loan Guarantee Program, Department of Energy, Washington, D.C. and Field Manager, Barstow Field Office, Bureau of Land Management, Barstow, California. Dated March 17. From Field Supervisor, Ventura Fish and Wildlife Office. Ventura, California.
- U.S. Fish and Wildlife Service. 2011c. Biological opinion on the Desert Sunlight Solar Farm Project, Riverside County, California. Memorandum to Field Manager, Palm Springs South Coast Field Office, Bureau of Land Management, Palm Springs, California. Dated July 6. From Field Supervisor, Carlsbad Fish and Wildlife Office. Carlsbad, California.
- U.S. Fish and Wildlife Service. 2011d. Biological opinion on the Rice Solar Energy Project, Riverside County, California. Dated July 27. Letter to John Holt, Environmental Manager, Desert Southwest Customer Service Region Western Area Power Administration, Phoenix, Arizona. From Jim A. Bartel, Field Supervisor, Carlsbad Fish and Wildlife Office. Carlsbad, California.

- U.S. Fish and Wildlife Service. 2012. Biological opinion for the K Road Moapa Solar Project, Moapa River Indian Reservation, Clark County, Nevada. Memorandum to Superintendent, Southern Paiute Agency, Bureau of Indian Affairs. St. George, Utah. Dated March 7. From State Supervisor, Nevada Fish and Wildlife Office. Reno, Nevada.
- U.S. Fish and Wildlife Service. 2013a. Biological opinion for the Stateline Solar and Silver State Solar South Projects, San Bernardino County, California, and Clark County, Nevada. Dated September 30. Memorandum to Field Manager, Needles Field Office, Bureau of Land Management, Needles California, and Assistant Field Manager, Las Vegas Field Office, Bureau of Land Management, Las Vegas, Nevada. From Acting Field Supervisor, Ventura Fish and Wildlife Office. Ventura, California.
- U.S. Fish and Wildlife Service. 2013b. Biological opinion on the McCoy Solar Power Project, Riverside County, California. Dated March 6. Memorandum to Field Manager, California Desert District Office, Bureau of Land Management, Moreno Valley, California. From Field Supervisor, Carlsbad Fish and Wildlife Office. Carlsbad, California.
- U.S. Fish and Wildlife Service. 2013c. Biological opinion on the Desert Harvest Solar Project, Riverside County, California [CACA 044919]. Dated January 15. Memorandum to Field Manager, Palm Springs-South Coast Field Office, Bureau of Land Management, Moreno Valley, California. From Field Supervisor, Carlsbad Fish and Wildlife Office. Carlsbad, California.
- U.S. Fish and Wildlife Service. 2013d. Internal briefing for the Secretary of the Interior regarding the Ivanpah Solar Electric Generating System. Dated June 25. Ventura Fish and Wildlife Office. Ventura, California

A3. Placeholder for Memorandum of Agreement or Programmatic Agreement

A4. Placeholder for NAGPRA Plan

A5. Agency Input

Tribal Memoranda



**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA**

22 April 2016

MEMORANDUM FOR RECORD

FROM: 412 CEG/CEVA

SUBJECT: Tribal Correspondence for proposed Solar EUL Project, July 2011

In July 2011 the following were provided correspondence regarding a potential Federal undertaking on Edwards Air Force Base:

Fort Mojave Indian Tribe
Tubatulabals of Kern County
Las Vegas Paiute Tribe
Tejon Indian Tribe
Timbisha Shoshone Tribe
Bishop Paiute Tribe
San Fernando Band of Mission Indians
Tule River Indian Tribe
Kern Valley Indian Council
Serrano Nation of Indians
Big Pine Band of Owens Valley
Moapa Paiute Band
Tehachapi Indian Tribe
AhaMaKav Cultural Society
Tejon Indian Tribe
San Manuel Band of Mission Indians
Lone Pine Paiute Shoshone
Ron Wermuth
Kitanemuk Yowlumne Tejon Indians



**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA**

22 April 2016

MEMORANDUM FOR RECORD

FROM: 412 CEG/CEVA

SUBJECT: Tribal Correspondence for proposed Solar EUL Project, June 2012

In June 2012 the following were provided an update of the potential Federal undertaking on Edwards Air Force Base:

Fort Mojave Indian Tribe
Tubatulabals of Kern County
Las Vegas Paiute Tribe
Timbisha Shoshone Tribe
Bishop Paiute Tribe
San Fernando Band of Mission Indians
Tule River Indian Tribe
Kern Valley Indian Council
Lone Pine Paiute Shoshone
Big Pine Band of Owens Valley
Moapa Paiute Band
Tehachapi Indian Tribe
Tejon Indian Tribe
Kitanemuk Yowlumne Tejon Indians

An email address for the Chairperson could not be obtained for the following:

San Manuel Band of Mission Indians



**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA**

22 April 2016

MEMORANDUM FOR RECORD

FROM: 412 CEG/CEVA

SUBJECT: Tribal Correspondence for proposed Solar EUL Project, October 2014

In October 2014 the following were provided the initial Section 106 notification of a proposed Federal undertaking on Edwards Air Force Base:

Fort Mojave Indian Tribes
Las Vegas Paiute Tribe
Timbisha Shoshone Tribe
Bishop Paiute Tribe
Tule River Indian Tribe
Lone Pine Paiute Shoshone
Big Pine Band of Owens Valley
Moapa Paiute Band
Santa Rosa Rancheria
San Manuel Band of Mission Indians
Morongo Band of Mission Indians
Fort Independence Community of Paiute
Colorado River Indian Tribes
Chemehuevi Indian Tribe



**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA**

Thomas Rademacher
Acting Base Historic Preservation Officer
412th Civil Engineer Group
Environmental Division
12 Laboratory Road Building 4231
Edwards Air Force Base, California 93524

6 October 2014

Dr. Carol Roland-Nawi
California State Historic Preservation Officer
1725 23rd Street, Suite 100
Sacramento, California 95816

Dear Ms. Roland-Nawi

The United States Air Force (Air Force) and Kern County, California are in the early stages of project planning for the proposed Oro Verde Solar Project (OVSP), which is to be located within Kern County on Edwards Air Force Base (AFB). The Air Force on Edwards AFB would like to initiate the Section 106 consultation process, in accordance with 36 CFR 800.3. Likewise, Edwards AFB has also extended invitations to 14 federally recognized tribes soliciting their participation in the Section 106 process as consulting parties. The purpose of the consultation is to discuss 1) the potential impacts of the proposed undertaking on known and unknown archaeological sites, and 2) the development of a Programmatic Agreement (PA) to address mitigation of these resources.

The OVSP is a large scale project and some details are still under negotiation. I would like to share those details that are currently known and have therefore attached Chapter 2, Description of the Proposed Action and Alternatives (DOPAA), of the draft Environmental Impact Statement/Environmental Impact Report, to this letter for your consideration (see attachment 1). The proposed project location is presented in Figure 1 and focuses on the northwest corner of the base. The proposed undertaking is to lease Air Force land to a private renewable energy developer for constructing, operating, maintaining, and eventually decommissioning a solar photovoltaic (PV) renewable energy plant. The developer has not yet defined an exact footprint because power purchase agreements are still being negotiated, but we envision the development of 1,500 to 4,000 acres of non-excess land in the northwest corner of Edwards AFB for a period of up to 50 years. Although there are currently three alternatives proposed for the scale of the development, for the purpose of initiating Section 106 consultation we will assume full project build-out. The full build-out includes the construction, operation, and maintenance of a solar PV facility of up to 450 megawatts (MW) of energy on up to 4,000 acres of undeveloped Air Force property.

The OVSP includes a transmission line that runs approximately 15 miles from the northwest corner of the base to a tie-in located near Mojave, CA. The line crosses federal and private land. In accordance with 36 CFR 800.2(a)(2) the Air Force has been designated the lead federal agency for this undertaking in regards to Section 106 consultation.

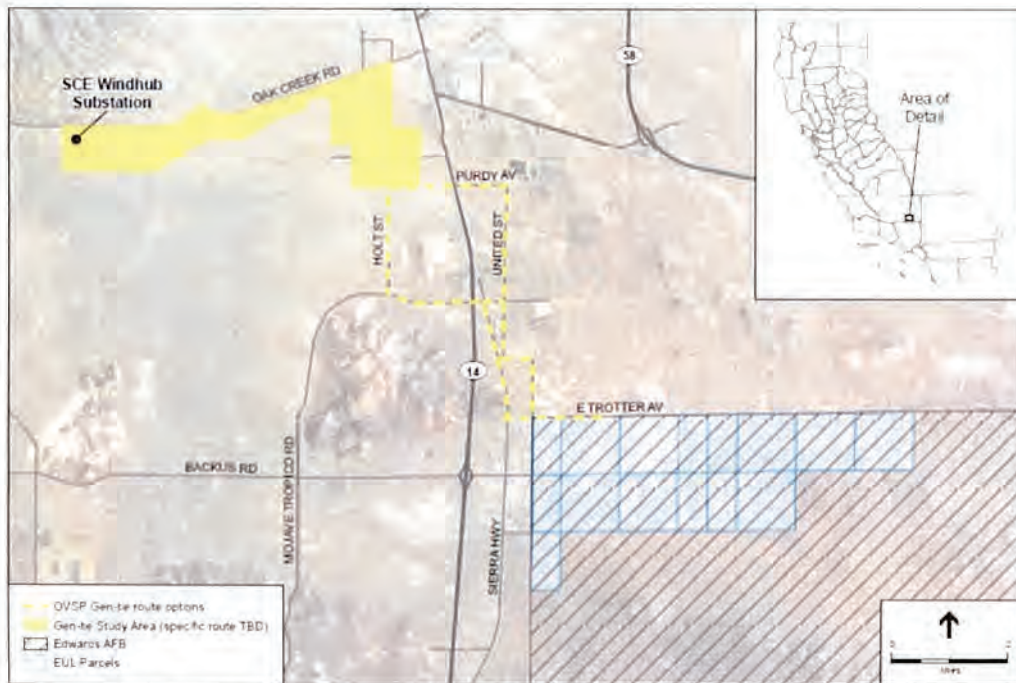


Figure 1. Siting location for the proposed OVSP assuming a full project build-out.

The Air Force has determined that the OVSP has the potential to affect cultural resources, both known and unknown. As such, the developer conducted a Phase I archaeological inventory that consisted of an intensive pedestrian survey of previously un-surveyed areas, which total 3,140 acres within the project area. The survey effort resulted in recording 76 new archaeological sites, updating 121 previously recorded sites, and recording 123 new isolated finds. Table 1 provides a detailed accounting of those resources. No human remains or funerary objects were observed during the field survey. Ground disturbing activities associated with this undertaking are automatically subject to the inadvertent discovery procedures as detailed in the Edwards AFB Integrated Cultural Resources Management Plan 2012.

Providing you with as much information as possible regarding the known cultural resources identified during the recent survey is of the utmost importance. Therefore, I have also attached the Phase I archaeological survey report (see attachment 2) that was prepared as part of 36 CFR 800.4. Although Edwards AFB appreciates the scientific value of archaeological sites, it is also understood that some tribes may ascribe additional cultural, traditional, or religious significance to these or other historic property types such as Traditional Cultural Properties or Landscapes. These are topics that can be addressed as part of the consultation process.

The OVSP is a complex undertaking with many moving parts. A decision made for one aspect of the project can affect other aspects and currently there are many unknown facets to this project in terms of planning. Therefore, it is anticipated that consultation with your office, as well as any invited consulting parties, will occur in tandem with the planning process and will most likely result in developing a PA in accordance with 36 CFR 800.14. Pursuant to 36 CFR 800.4 it will be necessary to determine eligibility for listing in the National Register of known archaeological resources and any additional resources of significance to consulting parties found within the OVSP project area (Figure 1). Those cultural resources determined to be eligible for listing will require some level of mitigation and consultation and be the focus of the PA.

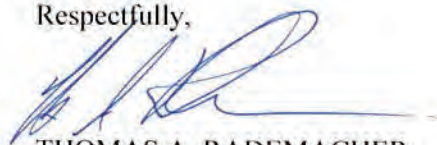
Archaeological Isolate	Recordation	Count
Historic	New	44
Prehistoric	New	79
Grand Total		123

Archaeological Site	Resource Type	Recordation	Count
Historic	Refuse deposit	New	17
Historic	Agricultural feature	New	2
Subtotal			19
Prehistoric	Lithic deposit	New	49
Prehistoric	Hearth/Roasting Pit	New	1
Prehistoric	Temporary Camp	New	7
Subtotal			57
Total			76
Historic	Wells	Update	3
Historic	Homesite	Update	8
Historic	Refuse deposit	Update	18
Historic	Roads and trails	Update	8
Subtotal			37
Prehistoric	Lithic deposit	Update	39
Prehistoric	Milling station	Update	1
Prehistoric	Hearth/Roasting Pit	Update	4
Prehistoric	Temporary Camp	Update	40
Subtotal			84
Total			121
Grand Total			197

Table 1 Survey Results

I am looking forward to working with you on the proposed OVSP on Edwards AFB. If you have any questions or concerns regarding this project please feel free to contact me, by phone at (661) 277-1402 or email thomas.rademacher.2@edwards.af.mil.

Respectfully,



THOMAS A. RADEMACHER
 Chief, Assets Branch NH-3
 Acting Base Historic Preservation Officer

2 Attachments

1. Chapter 2 of the draft Environmental Impact Statement/Environmental Impact Report
2. Archaeological survey report

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Virgil Moose
Big Pine Band of Owens Valley
Post Office Box 700
Big Pine, California 93513

Dear Chairman Moose

The United States Air Force (USAF) and Kern County, California are in the early stages of project planning for the proposed Oro Verde Solar Project (OVSP), which is to be located within Kern County on Edwards AFB. The USAF on Edwards AFB would like to invite your tribe to participate in the Section 106 consultation process, in accordance with 36 CFR 800.3. The purpose of this consultation is to discuss 1) the potential impacts of the proposed undertaking on properties that your tribe may consider culturally, traditionally or religiously important, and 2) the development of a Programmatic Agreement (PA) to address mitigation of these resources.

The USAF intends to hold an initial Section 106 consultation meeting in the next three months on Edwards AFB with interested tribes. The meeting will allow me to introduce your tribe to key personnel, as well as officials of the Edwards AFB Tribal Government-to-Government Coordination Team, which I created to facilitate more efficient communications between Edwards AFB and its neighboring tribes. The USAF recognizes that visiting Edwards AFB may not be feasible for some tribes. In cases where tribes are unable to attend but wish to participate in the consultation process, the USAF may accommodate any reasonable requests by tribes to meet at alternate locations.

The OVSP is a large scale project and some details are still under negotiation. I would like to provide those details that are currently known and have therefore attached Chapter 2, *Description of the Proposed Action and Alternatives (DOPAA)*, of the draft Environmental Impact Statement/Environmental Impact Report, to this letter for your consideration (see attachment 1). The proposed project location is presented in Figure 1 and focuses on the northwest corner of the installation. The proposed undertaking is to lease USAF land to a private renewable energy developer for constructing, operating, maintaining and eventually decommissioning a solar photovoltaic (PV) renewable energy plant. The developer has not yet defined an exact footprint because power purchase agreements are still being negotiated, but we envision the development of 1,500 to 4,000 acres of non-excess land in the northwest corner of Edwards AFB for a period of up to 50 years. Although there are currently three alternatives proposed for the scale of the development, for the purpose of initiating Section 106 consultation we will assume full project build-out. The full build-out includes the construction, operation and maintenance of a solar PV facility of up to 450 megawatts (MW) of energy on up to 4,000 acres of undeveloped USAF property.

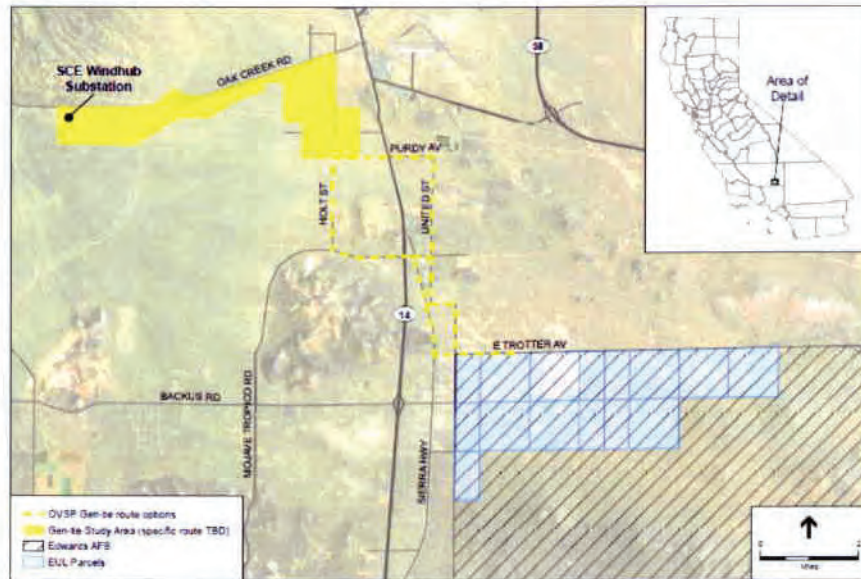


Figure 1. Siting location for the proposed OVSP assuming a full project build-out.

The OVSP includes a transmission line that runs approximately 15 miles from the northwest corner of the installation to a tie-in located near Mojave, California. The line crosses Federal and private land. In accordance with 36 CFR 800.2(a)(2) the USAF has been designated the lead Federal agency for this undertaking with regard to Section 106 consultation.

The USAF has determined that the OVSP has the potential to affect cultural resources, both known and unknown. As such, the developer conducted a Phase I archaeological inventory that consisted of an intensive pedestrian survey of previously un-surveyed areas, which total 3,140 acres within the project area. The survey effort resulted in recording of 76 new archaeological sites and 123 new isolated finds, and updating of 121 previously recorded sites. Table 1 provides a detailed accounting of those resources. No human remains or funerary objects were observed during the field survey. Ground disturbing activities associated with this undertaking are automatically subject to the inadvertent discovery procedures as detailed in the Edwards AFB Integrated Cultural Resources Management Plan 2012.

Providing your tribe with as much information as possible regarding the known cultural resources identified during the recent survey is of the utmost importance. Therefore, I have also attached the Phase I archaeological survey report (see attachment 2) that was prepared as part of 36 CFR 800.4. Although we appreciate the scientific value of archaeological sites we recognize that your tribe may ascribe additional cultural, traditional or religious significance to these or other historic property types such as Traditional Cultural Properties or Landscapes. These are topics that can be addressed as part of the consultation process.

Archaeological Isolate	Recordation	Count
Historic	New	44
Prehistoric	New	79
Grand Total		123

Archaeological Site	Resource Type	Recordation	Count
Historic	Refuse deposit	New	17
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Subtotal			19
Prehistoric	Lithic deposit	New	49
Prehistoric	Hearth/roasting pit	New	1

Prehistoric	Temporary camp	New	7
			Subtotal
			57
			Total
			76
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			Subtotal
			84
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			121
			Grand Total
			197

Table 1 Survey Results

The OVSP is a complex undertaking with many moving parts. A decision made for one aspect of the project can affect other aspects and currently there are many unknown facets to this project in terms of planning. Therefore, it is anticipated that consultation with your tribe will result in the development of a PA in accordance with 36 CFR 800.14. Pursuant to 36 CFR 800.4, it will be necessary to determine eligibility for listing of the known archaeological resources, and any additional resources of significance to your tribe within the OVSP project area (Figure 1), in the National Register of Historic Places. Those cultural resources determined to be eligible for listing will require some level of mitigation and consultation and be the focus of the PA. The PA is a legally binding document that will clearly define the parties to the agreement, the purpose of the agreement and stipulate the responsibility or obligation of each party member. In short, the PA will ensure the historic properties impacted by the OVSP, including those resources identified by your tribe to be religiously or culturally significant, will be treated in a manner agreeable to each party to the PA.

The USAF, as lead Federal agency, welcomes your tribe's participation in the Section 106 process and solicits your input about properties of religious or cultural significance. If you would like additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please have your staff contact the acting Base Historic Preservation Officer, Mr. Thomas Rademacher, by phone at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully



MICHAEL T. BREWER
Brigadier General, USAF
Commander

2 Attachments

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2. Archaeological Survey Report

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Dale Delgado
Bishop Paiute Tribe
50 Tu Su Lane
Bishop, California 93514

Dear Chairman Delgado

The United States Air Force (USAF) and Kern County, California are in the early stages of project planning for the proposed Oro Verde Solar Project (OVSP), which is to be located within Kern County on Edwards AFB. The USAF on Edwards AFB would like to invite your tribe to participate in the Section 106 consultation process, in accordance with 36 CFR 800.3. The purpose of this consultation is to discuss 1) the potential impacts of the proposed undertaking on properties that your tribe may consider culturally, traditionally or religiously important, and 2) the development of a Programmatic Agreement (PA) to address mitigation of these resources.

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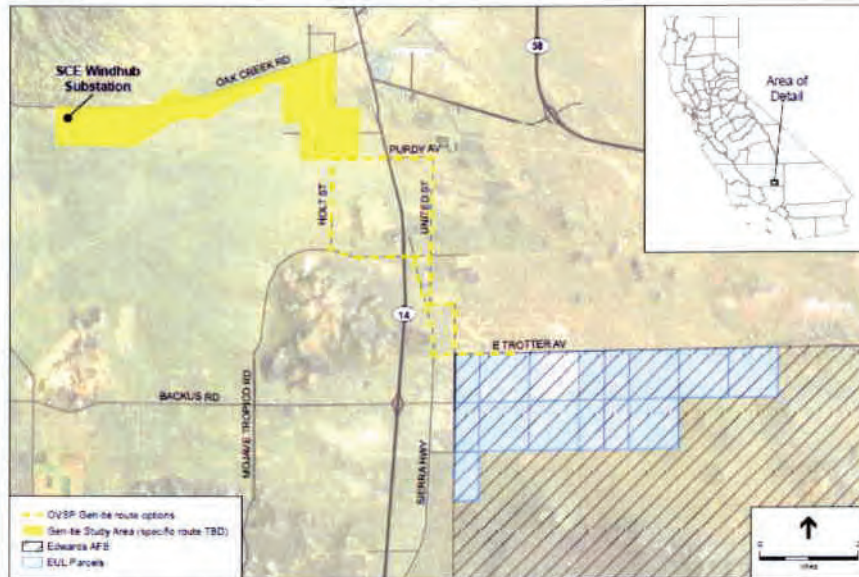


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Respectfully



MICHAEL T. BREWER
Brigadier General, USAF
Commander

2 Attachments

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Edward Smith
Chemehuevi Indian Tribe
Post Office Box 1976
Chemehuevi Valley, California 92363

Dear Chairman Smith

The United States Air Force (USAF) and Kern County, California are in the early stages of project planning for the proposed Oro Verde Solar Project (OVSP), which is to be located within Kern County on Edwards AFB. The USAF on Edwards AFB would like to invite your tribe to participate in the Section 106 consultation process, in accordance with 36 CFR 800.3. The purpose of this consultation is to discuss 1) the potential impacts of the proposed undertaking on properties that your tribe may consider culturally, traditionally or religiously important, and 2) the development of a Programmatic Agreement (PA) to address mitigation of these resources.

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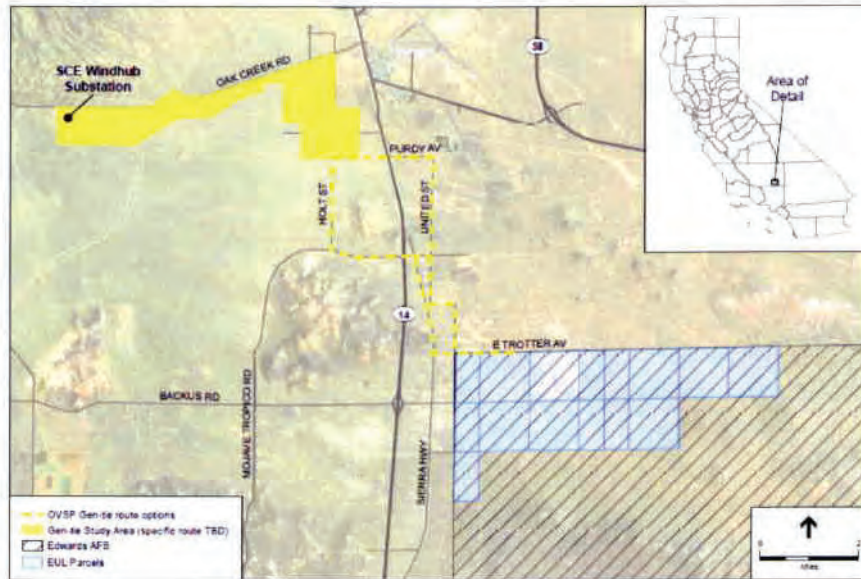


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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Dennis Patch
Colorado River Indian Tribes
2660 Mojave Road
Parker, Arizona 85344

Dear Chairman Patch

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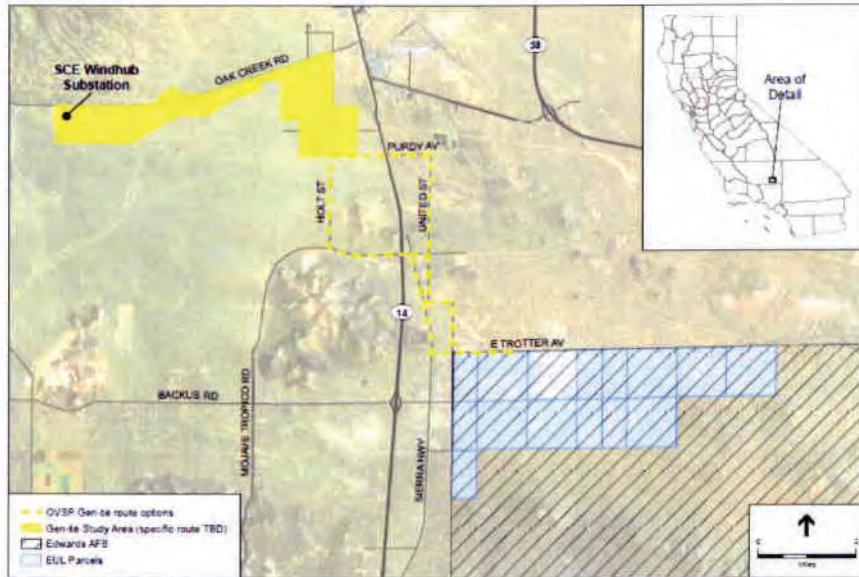


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EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Israel Naylor
Fort Independence Community of Paiute
Post Office Box 67
Independence, California 93526

Dear Chairman Naylor

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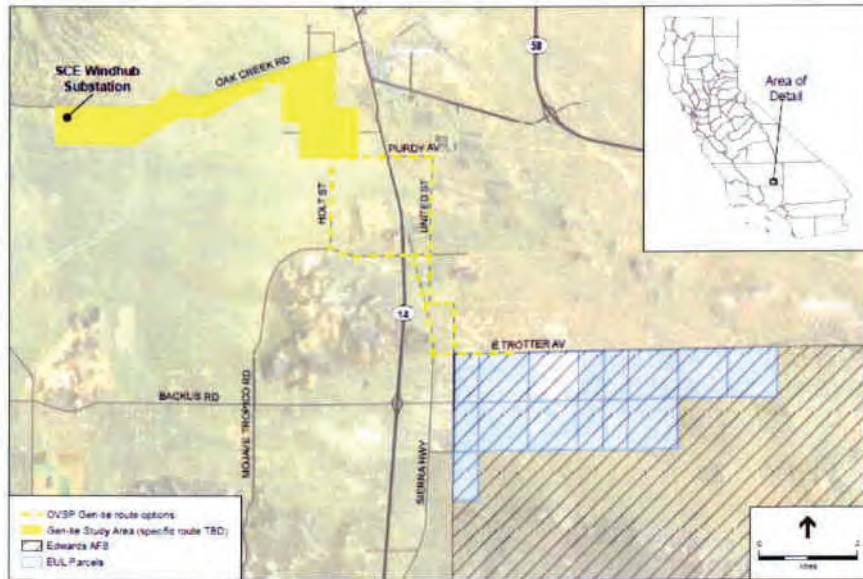


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EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Timothy Williams
Fort Mojave Indian Tribes
500 Merriman Avenue
Needles, California 92363

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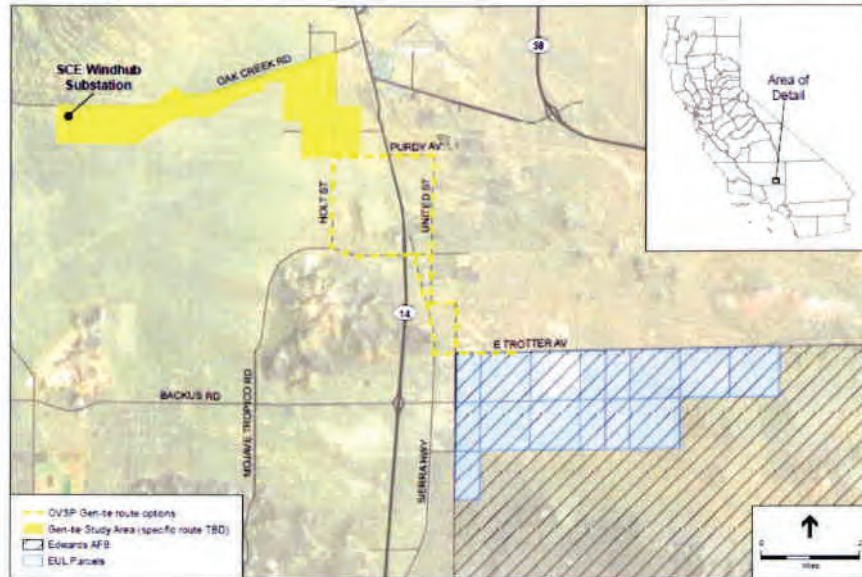


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MICHAEL T. BREWER
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Commander

2 Attachments

1. Chapter 2 of the Draft Environmental Impact Statement/Environmental Impact Report
2. Archaeological Survey Report

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Benny Tso
Las Vegas Paiute Tribe
1 Paiute Drive
Las Vegas, Nevada 89106

Dear Chairman Tso

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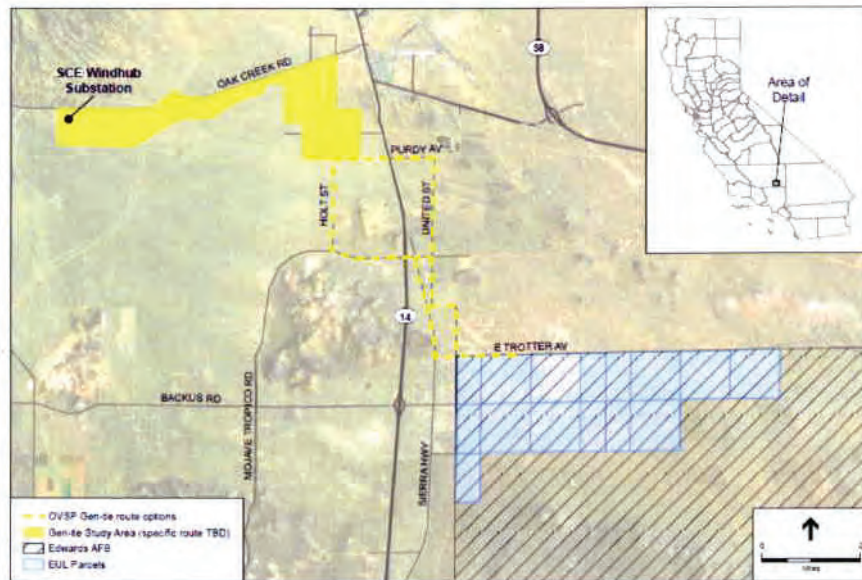


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Respectfully



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HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairperson Mary Wuester
Lone Pine Paiute Shoshone Reservation
Post Office Box 747
Lone Pine, California 93545

Dear Chairperson Wuester

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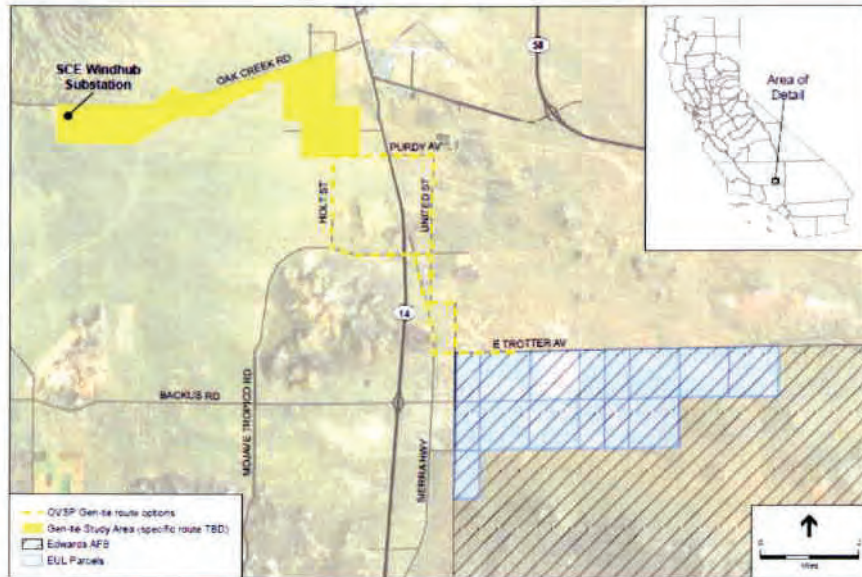


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Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman William Anderson
Moapa Paiute Band of the Moapa Reservation
Post Office Box 56
Moapa, Nevada 89025

Dear Chairman Anderson

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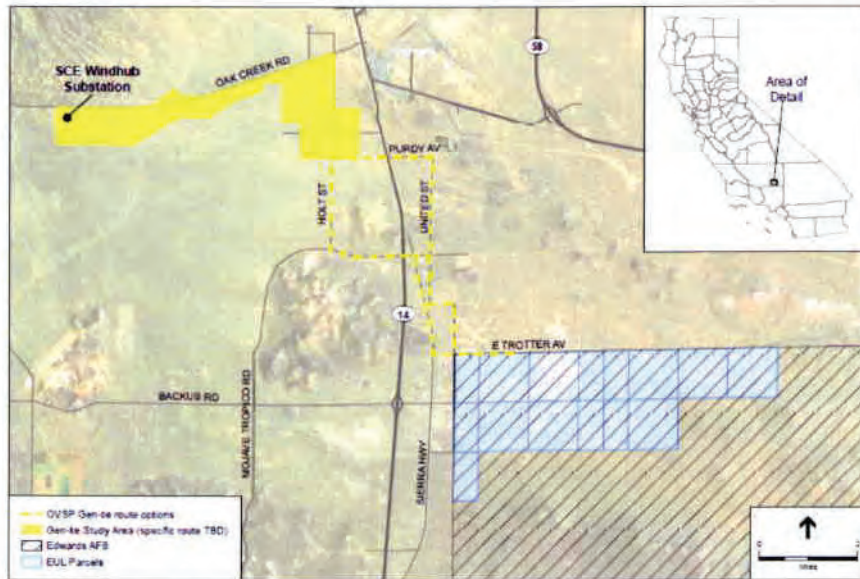


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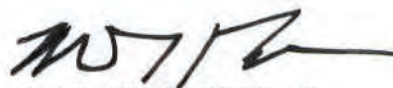
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Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
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Chairman Robert Martin
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, California 92220

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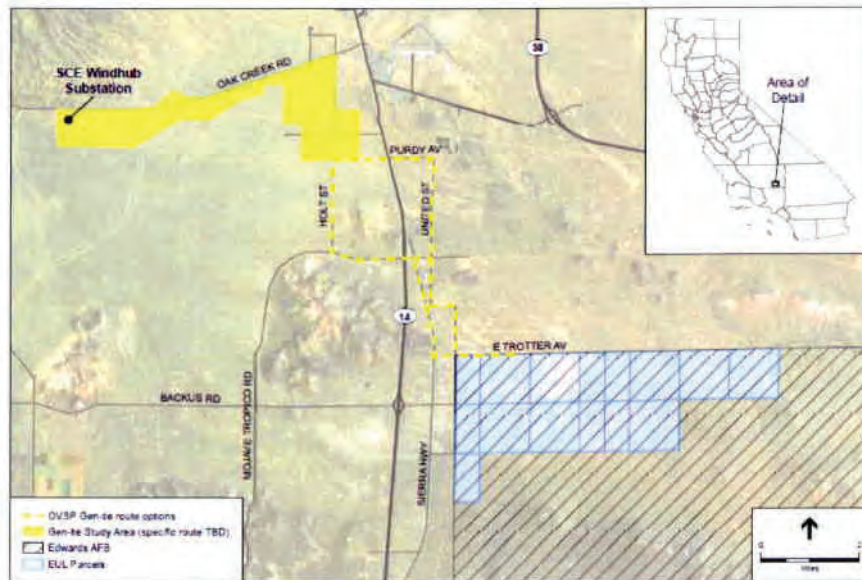


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<i>City, State, ZIP+4</i>	12700 PUMARRA RD BANNING CA 92220

PS Form 3800, August 2006

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairperson Lynn Valbuena
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, California 92346

Dear Chairperson Valbuena

The United States Air Force (USAF) and Kern County, California are in the early stages of project planning for the proposed Oro Verde Solar Project (OVSP), which is to be located within Kern County on Edwards AFB. The USAF on Edwards AFB would like to invite your tribe to participate in the Section 106 consultation process, in accordance with 36 CFR 800.3. The purpose of this consultation is to discuss 1) the potential impacts of the proposed undertaking on properties that your tribe may consider culturally, traditionally or religiously important, and 2) the development of a Programmatic Agreement (PA) to address mitigation of these resources.

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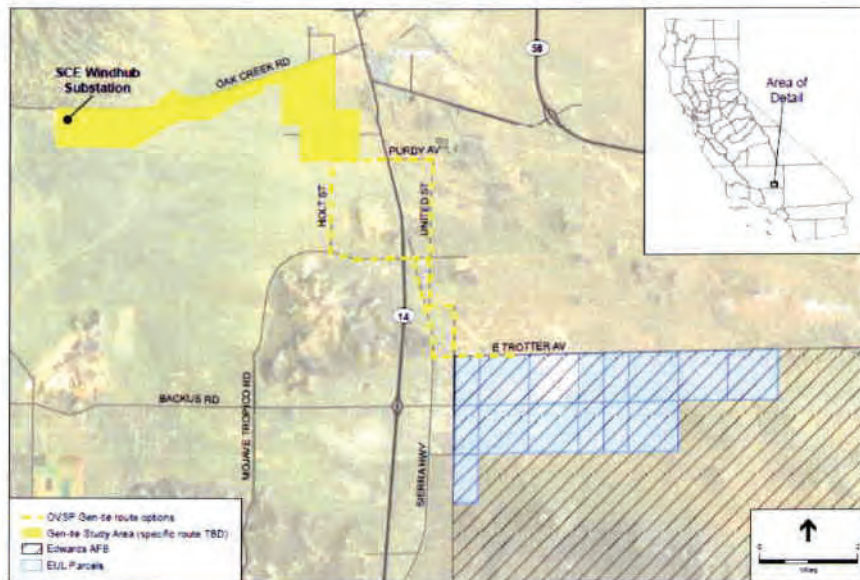


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Respectfully



MICHAEL T. BREWER
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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Hector Franco
Santa Rosa Rancheria
16835 Alkali Drive
Lemoore, California 93245

Dear Chairman Franco

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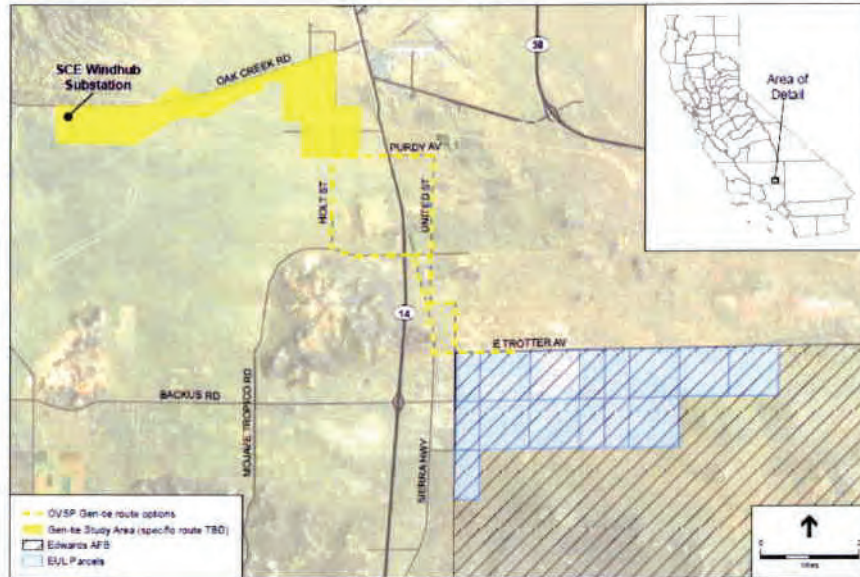


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Respectfully



MICHAEL T. BREWER
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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman George Gholson
Timbisha Shoshone Tribe
621 West Line Street Suite 109
Bishop, California 93514

Dear Chairman Gholson

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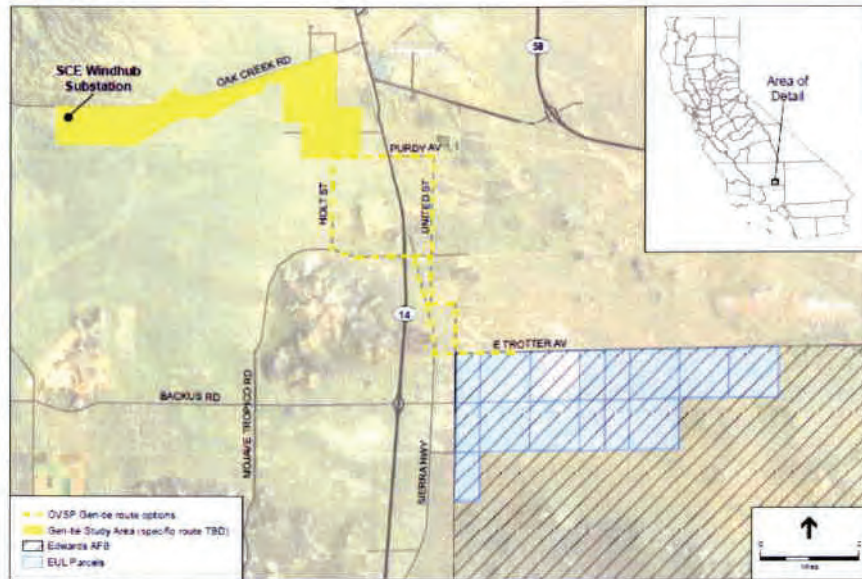


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PS Form 3800, August 2006

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**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA**

Michael T. Brewer
Brigadier General, United States Air Force
Commander, 412th Test Wing
195 East Popson Avenue
Edwards Air Force Base, California 93524

Chairman Neil Peyron
Tule River Indian Tribe
Post Office Box 589
Porterville, California 93258

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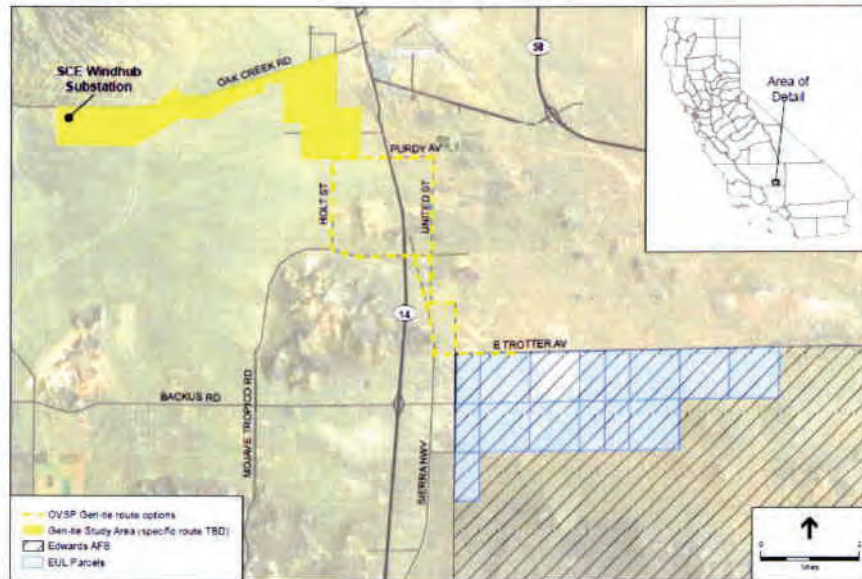


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CHAIRMAN

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**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA**

MEMORANDUM FOR RECORD

FROM: 412 CEG/CEVA

SUBJECT: Tribal Correspondence for proposed Edwards Solar EUL Project (also known as Solar EUL Project), January 2017

On 5 January 2017 the Air Force provided the following Federally Recognized Tribes notification of the continuing Federal undertaking and reiterated the invitation to consult on the Edwards AFB Solar EUL Project:

Big Pine Band of Owens Valley

Bishop Paiute Tribe

Chemehuevi Indian Tribe

Colorado River Indian Tribes (CRIT) Tribal Council

Fort Independence Community of Paiute

Fort Mojave Indian Tribe

Las Vegas Paiute Tribe

Lone Pine Paiute-Shoshone

Moapa Paiute Band

Morongo Band of Mission Indians

San Manuel Band of Mission Indians

Tachi-Yokut Tribe

Tejon Indian Tribe

Timbisha Shoshone Tribe

Tule River Indian Tribe



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Shannon Romero, Chairwoman
Big Pine Band of Owens Valley
Post Office Box 700
Big Pine, California 93513

Dear Chairwoman Romero

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Deston Rogers, Chairman
Bishop Paiute Tribe
50 Tu Su Lane
Bishop, CA 93514

Dear Chairman Rogers

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

5 JAN 17

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

Charles F. Wood, Chairman
Chemehuevi Indian Tribe
P.O. Box 1976
Havasu Lake, CA 92363

Dear Chairman Wood

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

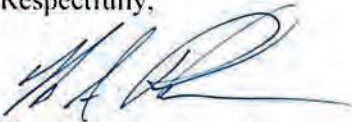
Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,

A handwritten signature in blue ink, appearing to read 'T. Rademacher', with a stylized flourish at the end.

Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

5 JAN 17

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

Dennis Patch, Chairman
Colorado River Indian Tribes (CRIT) Tribal Council
26600 Mohave Road
Parker, AZ 85344

Dear Chairman Patch

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,

A handwritten signature in blue ink, appearing to read 'T. Rademacher', with a long horizontal line extending to the right.

Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Norm Wilder, Chairman
Fort Independence Community of Paiute
P.O. Box 67
Independence CA 93526

Dear Chairman Wilder

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Timothy Williams, Chairman
Fort Mojave Indian Tribe
500 Merriman Avenue
Needles, CA 92363

Dear Chairman Williams

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

5 JAN 17

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

Benny Tso, Chairman
Las Vegas Paiute Tribe
1 Paiute Drive
Las Vegas, NV 89106

Dear Chairman Tso

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

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Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Mary Wuester, Chairwoman
Lone Pine Paiute-Shoshone
1103 S Main Street
Lone Pine, CA 93545

Dear Chairwoman Wuester

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

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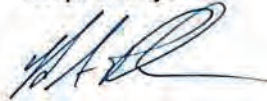
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Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

5 JAN 17

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

Robert Tom, Chairman
Moapa Paiute Band
1 Lincoln St
P.O. Box 340
Moapa, NV 89025

Dear Chairman Tom

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 –

4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Robert Martin, Tribal Chairman
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

Dear Chairman Martin

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Chairperson Lynn Valbuena
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

Dear Chairperson Valbuena

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Ruben Barrios, Chairman
Tachi-Yokut Tribe
Santa Rosa Rancheria
16835 Alkali Dr. Box 8
Lemoore, CA 93245

Dear Chairman Barrios

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 –

4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Octavio Escobedo, Chairperson
Tejon Indian Tribe
1731 Hasti-Acres Drive, Suite 108
Bakersfield, California 93309

Dear Chairman Escobedo

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed since November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

Environmental analysis of the proposed action under the National Environmental Policy Act has shifted from a project specific Environmental Impact Statement/Environmental Impact Report (EIS/EIR) to a Programmatic EIS/EIR. This approach is appropriate given that a developer for the project has not yet been selected. Edwards AFB has limited the extent of the facility to the previously discussed 1,500 – 4,000 acres of land in the northwestern corner of the installation with the latter defining the maximum

buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,

A handwritten signature in blue ink, appearing to read 'T. Rademacher', with a long horizontal flourish extending to the right.

Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

George Gholson, Chairman
Timbisha Shoshone Tribe
621 West Line, Suite 109
Bishop, CA 93514

Dear Chairman Gholson

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

The portion of land that has been identified for development includes approximately 200 known archaeological sites. The sites are comprised of both prehistoric and historic resources. Edwards AFB also recognizes that in addition to those resources that other historic property types such as Traditional Cultural Properties, landscapes, or viewsheds need to be considered, per requirements of environmental and historic preservation law (e.g., National Environmental Policy Act, the Archaeological Resources Protection Act, the NHPA, and other related laws and Executive Orders).

Edwards Air Force Base has prepared a draft Programmatic Agreement addressing the proposed treatment of historic properties that potentially would be impacted by the construction, operation, and eventual decommissioning of this solar facility. The attached draft, for your consideration, is intended to represent our approach to addressing the resources present. In addition to the attached Programmatic Agreement, we anticipate drafting Memoranda of Agreement for your consideration as one or more project developers are selected and specific project components are designed.

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buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

We are in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. The USAF, as lead Federal agency, welcomes the participation of your tribe in the Section 106 process and we are seeking your interest in consulting on this project as it unfolds and details become available. In particular, we request any information you may wish to provide regarding items of tribal interest that may be impacted by the project. If your tribe has any recommendations for measures that you wish the Air Force to consider during development of the site in order to protect tribal interests please let us know. The success of our Section 106 consultation with the California State Historic Preservation Officer depends on your input about properties of religious or cultural significance in or near the project area. If you are interested in additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please contact me at (661) 277-1402 or by e-mail thomas.rademacher.2@us.af.mil.

Respectfully,

A handwritten signature in blue ink, appearing to read 'T. Rademacher', with a long horizontal flourish extending to the right.

Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

Thomas A. Rademacher
412th Civil Engineer Group, Environmental Management Division
120 North Rosamond Boulevard
Edwards Air Force Base, California 93524

5 JAN 17

Neil Peyron, Chairman
Tule River Indian Tribe
340 N Reservation Rd.
Porterville, CA 93257

Dear Chairman Peyron

I would like to invite you to take part in the consultation and project review process, as defined in Section 106 of the National Historic Preservation Act (NHPA). The United States Air Force (USAF) and County of Kern, California are supporting the continuing development of a solar energy collection project, to be constructed within the boundary of Edwards Air Force Base (AFB). Because this is an undertaking that involves federal land, we are seeking your involvement and we invite you to take part in a government-to-government dialogue regarding your interest in, or any concerns you may have about the effects that this project may have on historic properties.

We are still in the planning stages of this project and await project specific details upon the selection of a developer to construct the facility. In addition, the strategy to develop this project has changed from our last correspondence in November of 2014, although the plan to construct the facility as part of an Enhanced Use Lease (EUL) program remains unchanged. The EUL strategy is preferred because it allows the development of a utility-scale solar photovoltaic facility on non-excess real property.

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buildout of the project. The power output of the proposed facility is expected to range between 150 and 450 megawatts. Generated electricity will require a transmission line extending away from Edwards AFB, to connect to the local power grid. All portions of the project will require Section 106 review and entail coordination with a variety of stakeholders in addition to Native American Tribes, with the USAF acting as lead Federal agency.

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Respectfully,



Thomas A. Rademacher
Chief, Assets Branch
Environmental Management Division

Attachment: Edwards AFB Solar EUL Programmatic Agreement



**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA**

MEMORANDUM FOR RECORD

FROM: 412 CEG/CEVA

SUBJECT: Tribal Correspondence for proposed Edwards Solar EUL Project (also known as Solar EUL Project), December 2017

On 4 December 2017 the Air Force provided the following Federally Recognized Tribes notification of Scoping of the Edwards AFB Solar EUL Project EIS/EIR:

Big Pine Band of Owens Valley

Bishop Paiute Tribe

Chemehuevi Indian Tribe

Colorado River Indian Tribes (CRIT) Tribal Council

Fort Independence Community of Paiute

Fort Mojave Indian Tribe

Las Vegas Paiute Tribe

Lone Pine Paiute-Shoshone

Moapa Paiute Band

Morongo Band of Mission Indians

San Manuel Band of Mission Indians

Tachi-Yokut Tribe

Tejon Indian Tribe

Timbisha Shoshone Tribe

Tule River Indian Tribe



**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA**



MEMORANDUM FOR ALL INTERESTED FEDERAL, STATE AND LOCAL AGENCIES

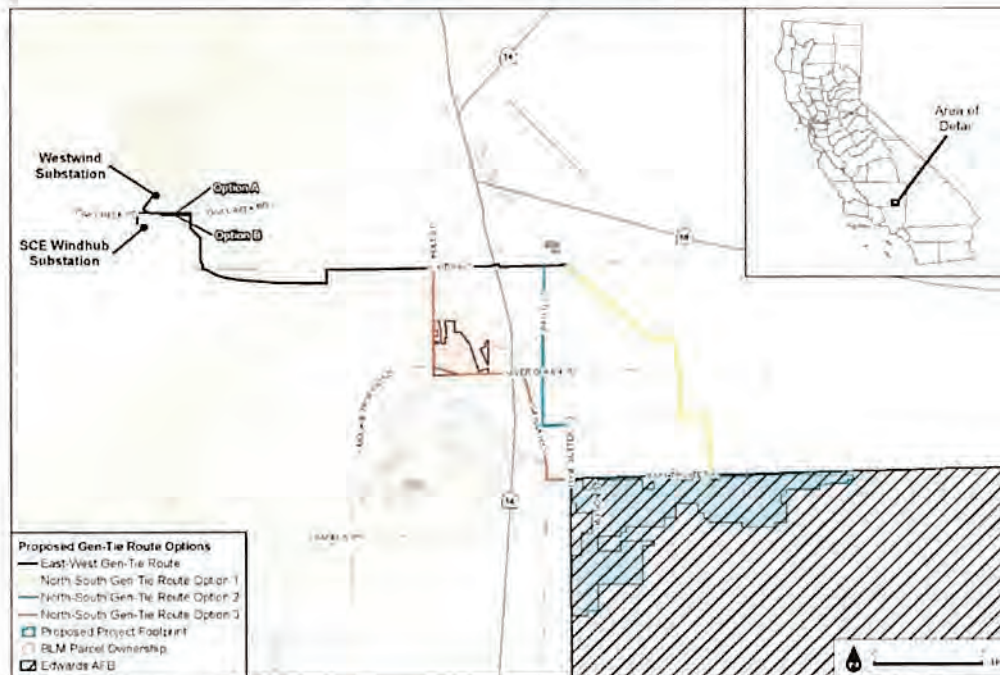
FROM: 412 CEG/CL
225 North Rosamond Boulevard
Edwards Air Force Base, California 93524

4 Dec 17

SUBJECT: Notice of Scoping for the Environmental Impact Statement (EIS)/Environmental Impact Report (EIR) Joint Document for the Implementation of the Edwards Air Force Base Solar Project

1. The United States Air Force and the County of Kern are preparing a joint EIS/EIR to identify and address potential environmental impacts associated with implementation of the Edwards AFB Solar Project (ESP) on Edwards AFB, California (see Figure 1 below).

Figure 1. Proposed ESP Project Location



2. Proposed Action: The Air Force proposes to lease land to a private renewable energy developer for the construction, operation and maintenance of the ESP. The ESP is a solar photovoltaic renewable energy project that would produce up to 600 Megawatts (MW) of energy at Edwards AFB. The final scale of the ESP is anticipated to be between 100 to 600 MW. Construction would require the lease and subsequent development of between 1,000 to 3,500 acres of non-excess land in the northwestern corner of Edwards AFB.

3. For the County, the Proposed Action involves the routing of a 230 kilovolt (kV) generation tie (gen-tie) line from the proposed solar facility to a point of interconnection where power generated by the project can be delivered to the grid. Points of interconnection include either the Southern California Edison (SCE) Windhub Substation and/or the privately owned Westwind Substation.

4. The EIS/EIR is being prepared in accordance with National Environmental Policy Act (NEPA) of 1969, the Council on Environmental Quality (CEQ) regulations for implementing NEPA (40 Code of Federal Regulations (CFR) 1500 -1508), Department of the Air Force regulation 32 CFR 989 *Environmental Impact Analysis Process*, California Environmental Quality Act (CEQA) (Public Resources Code, Section 21000 et seq.), CEQA Guidelines (California Code of Regulations, Title 14, Chapter 3, Section 15000 et seq.) and the Kern County CEQA Implementation Document (Kern County, 2004).

5. Scope of the EIS/EIR Analysis: The following environmental issues were identified by the Air Force and County of Kern during internal scoping as having the potential for adverse impacts and will be analyzed within the EIS/EIR document: Aesthetics, Agricultural Resources, Air Quality, Airspace Management and Use, Biological Resources, Cultural Resources, Environmental Justice, Greenhouse Gas Emissions, Hazardous Materials, Infrastructure, Land Use, Noise, Public Services, Safety, Socioeconomics, Soil and Geological Resources, Transportation, and Water Resources.

6. Alternatives: The Air Force and County of Kern have considered a broad range of alternatives for implementing the Proposed Action. During the initial planning stages, alternative selection standards were developed to define the necessary project criteria that must be met by alternatives to be carried forward for analysis within the EIS/EIR. The selection standards are grouped into three main categories that include renewable energy technology standards, project siting standards and gen-tie route standards. The alternatives currently being considered by the Air Force and County of Kern were determined to meet the minimum selection standards. The Proposed Action is subject to the requirements and objectives of Executive Order 11988, *Floodplain Management*, as amended. Consistent with Executive Order 11988 and Executive Order 11990, this notification letter initiates early review of the alternatives that have the potential to be located in a floodplain and/or wetland. All alternatives for the Proposed Action, including alternatives for the gen-tie line, will potentially result in impacts to floodplains. Your attendance at the public scoping meeting will provide opportunities to submit comments on the proposed project alternatives and input on minimizing potential impacts to floodplains. Alternatives currently under consideration in the EIS/EIR include:

a. Alternative A (Full Project Build-Out): This alternative includes the construction, operation and maintenance of a full-scale solar photovoltaic (PV) facility of up to 600 MW of energy and construction of a 150 MW battery storage facility on up to 3,500 acres of undeveloped Air Force property located in the northwest corner of Edwards AFB. Solar array construction would require the grading of a majority of the project areas to a slope of 2% or less across the ESP project footprint. During ESP site construction, solar panels would be mounted on metal pipe or H beam foundations that are approximately four to six inches in diameter. The panels would be installed using either a single axis tracking system, whereby the panels are controlled to move with the sun, or on a fixed tilt system, whereby the panels are fixed at a particular angle. Pipe pile foundations would be driven to depths of 18 feet deep. When piles cannot be driven to the required depth, an alternate spread footing would be required; these footings would be approximately six feet wide by six feet long and two feet deep. Siting of panels would be in a grid-pattern at regular intervals to support efficient energy production and to facilitate ease of maintenance. In addition to the PV solar arrays, this alternative includes on-base substations, a switchyard, service buildings and warehouses, necessary access roads, drainage facilities and up to 20 acres of energy storage facilities. Alternative A also includes construction of an associated gen-tie line of approximately 10 to 15 miles in total length that will run to either SCE's Windhub Substation and/or the privately owned Westwind Substation. The proposed gen-tie line has a north-south component and an east-west component. There are three alternatives for the north-south component all of which run from the proposed solar PV facility to Purdy Avenue. North-south component Option 3 traverses a portion of Bureau of Land Management land. The east-west component continues along Purdy Avenue for approximately 4.5 miles and then continues west for 2.5 miles on undeveloped land until it heads north for approximately 1 mile through undeveloped land to Oak Creek Road. At Oak Creek Road, the east-west component splits into option A which runs south of Oak Creek Road, and option B which runs north of Oak Creek road for approximately 1/2 mile until continuing on to the

Windhub Substation and/or the Westwind Substation. The Proposed Action will include a combination of one north-south alternative and one east-west alternative.

b. Alternative B (Reduced Project Build-Out): This alternative includes the construction, operation and maintenance of a reduced-scale solar PV facility of between 100 to 200 MW on up to 1,500 acres of Air Force property located in the northwest corner of Edwards AFB within the same project footprint as Alternative A. This alternative would utilize the same gen-tie line route and interconnection points proposed in Alternative A. The reduced project alternative would require approximately 1/3 to 1/2 of the acreage and construction-related ground disturbance required to support the full project alternative described in Alternative A. Alternative B would provide the developer with additional siting flexibility to further avoid environmentally sensitive or incompatible development areas.

c. Alternative C (No Action/No Project): Under this alternative the proposed solar facility would not occur.

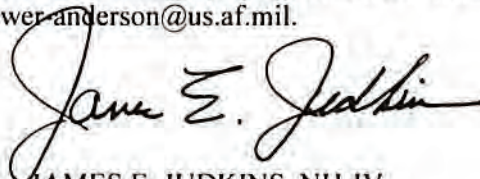
7. Scoping Information: Interested Federal, State and Local agencies are invited to provide scoping comments, within their area of statutory responsibility, on the ESP proposal and alternatives. Issues or comments regarding the ESP proposal should be sent no later than Wednesday (27 December 2017). Please send your comments regarding the scope of the EIS/EIR, along with the name and address of an appropriate contact person to:

Ms. Andrea Brewer-Anderson
412 CEG/CEVA
120 North Rosamond Boulevard
Bldg. 3735, Suite A
Edwards AFB, California 93524
Phone: (661) 277-4948 / Fax: (661) 277-6145
andrea.brewer-anderson@us.af.mil

8. The Air Force and County of Kern will be hosting a public scoping meeting from 5:00 PM to 8:00 PM on Tuesday, 12 December 2017. The purpose of this meeting is to provide an overview of the proposed ESP initiative, explain the purpose and need for the project, and the alternatives being considered in the EIS/EIR. The scoping meeting will be held at the following location:

Mojave Veterans Memorial Building
15580 O Street
Mojave, California 93501

9. We look forward to hearing from you, along with your participation in the above mentioned meeting. If you have any further questions or concerns or need further information, please contact Ms. Andrea Brewer-Anderson at (661) 277-4948 or by e-mail at andrea.brewer-anderson@us.af.mil.



JAMES E. JUDKINS, NH-IV
Base Civil Engineer

Written Comments Received during Public Scoping Period

Federal

Janice Mayes

From: Rodriguez, Pablo (Paul) <prodriqu@blm.gov>
Sent: Monday, November 27, 2017 11:11 AM
To: Janice Mayes
Subject: NOP

Janice, I'll have the NOP for the Camino project by Friday. Had to take leave, use or lose. I'll be taking the last week of December and the first week of January off.

BLM would like to make the commitment for the following project.

EIR JKM 07-17; Edwards AFB Solar Project by Edwards AFB Solaar, LLC (PP18136).

Consult with BLM for the following two locations:

1. T. 11N., R. 32W. Sec. 32. SW¼.
2. T. 10N., R. 11W. Sec. 10. NW¼.

Gern Tie Route Option 3.

Paul Rodriguez
Realty Specialist

Ridgecrest Field Office
300 S. Richmond Rd.
Ridgecrest California 93555

Phone: 760 384-5455
Fax: 760 384-5499

State

NATIVE AMERICAN HERITAGE COMMISSION

Environmental and Cultural Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710
Email: nahc@nahc.ca.gov
Website: <http://www.nahc.ca.gov>
Twitter: @CA_NAHC



November 30, 2017

Janice Mayes
Kern County
2700 M Street
Bakersfield, CA 93301

RE: SCH#2017111079, Edwards Air Force Base Solar Project, Kern County

Dear Ms. Mayes

The Native American Heritage Commission has received the Notice of Preparation (NOP) for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code § 21000 et seq.), specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit. 14, § 15064.5 (b) (CEQA Guidelines Section 15064.5 (b))). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared. (Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15064 subd.(a)(1) (CEQA Guidelines § 15064 (a)(1))). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code § 21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code § 21084.3 (a)). **AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. § 800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments. **Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.**

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. **Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project:** Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
 - a. A brief description of the project.

- b. The lead agency contact information.
 - c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code § 21080.3.1 (d)).
 - d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code § 21073).
2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code § 21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or environmental impact report. (Pub. Resources Code § 21080.3.1(b)).
 - a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18). (Pub. Resources Code § 21080.3.1 (b)).
 3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
 - a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects. (Pub. Resources Code § 21080.3.2 (a)).
 4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:
 - a. Type of environmental review necessary.
 - b. Significance of the tribal cultural resources.
 - c. Significance of the project's impacts on tribal cultural resources.
 - d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code § 21080.3.2 (a)).
 5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code § 21082.3 (c)(1)).
 6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
 - a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code § 21082.3 (b)).
 7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:
 - a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code § 21080.3.2 (b)).
 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources

Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code § 21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code section 21084.3 (b). (Pub. Resources Code § 21082.3 (e)).
10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
 - a. Avoidance and preservation of the resources in place, including, but not limited to:
 - i. Planning and construction to avoid the resources and protect the cultural and natural context.
 - ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i. Protecting the cultural character and integrity of the resource.
 - ii. Protecting the traditional use of the resource.
 - iii. Protecting the confidentiality of the resource.
 - c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d. Protecting the resource. (Pub. Resource Code § 21084.3 (b)).
 - e. Please note that a federally recognized California Native American tribe or a nonfederally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code § 815.3 (c)).
 - f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code § 5097.991).
11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An environmental impact report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
 - a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.
 - b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code § 21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code § 65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf

Some of SB 18's provisions include:

1. **Tribal Consultation:** If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code § 65352.3 (a)(2)).
2. **No Statutory Time Limit on SB 18 Tribal Consultation.** There is no statutory time limit on SB 18 tribal consultation.
3. **Confidentiality:** Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code section 65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction. (Gov. Code § 65352.3 (b)).
4. **Conclusion of SB 18 Tribal Consultation:** Consultation should be concluded at the point in which:
 - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have been already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.
3. Contact the NAHC for:
 - a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
- a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, section 15064.5(f) (CEQA Guidelines section 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5, subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions, please contact me at my email address: sharaya.souza@nahc.ca.gov.

Sincerely,



Sharaya Souza
Staff Services Analyst
(916) 573-0168

cc: State Clearinghouse

**DEPARTMENT OF TRANSPORTATION
DISTRICT 9**

500 SOUTH MAIN STREET
BISHOP, CA 93514
PHONE (760) 872-0785
FAX (760) 872-0678
TTY 711
www.dot.ca.gov



*Making Conservation
a California Way of Life!*

December 11, 2017

Ms. Janice Mayes
Kern County Planning/Natural Resources Dept.
2700 M Street, Suite 100
Bakersfield, California 93301

File: Ker-14-R9.15
NOP EIR
SCH #: 2017111079

Edwards Airforce Base Solar Project - Notice of Preparation (NOP) of an Environmental Impact Report (EIR)

Dear Ms. Mayes:

Thank you for giving the California Department of Transportation (Caltrans) District 9 the opportunity to comment during the NOP phase for the Edwards Airforce Base Solar Project. We offer the following:


- Figure 2 indicates gen-tie routes that would cross State Route 14. Installation and maintenance of utilities within the State Highway right-of-way must be done per Caltrans standards under permit. Utility placement standards may be found in the Encroachment Permits Manual at: http://www.dot.ca.gov/trafficops/ep/docs/Chapter_6.pdf

The permit application may be found at: <http://www.dot.ca.gov/trafficops/ep/index.html>

For more information, you may contact Stephen Winzenread, District Permit Engineer, at stephen.winzenread@dot.ca.gov or (760) 872-5222.

We value our cooperative working relationship with Kern County concerning development project impacts to the State transportation system and travelers. Feel free to contact me at (760) 872-0785 with any questions.

Sincerely,


GAYLE J. ROSANDER
External Project Liaison

c: State Clearinghouse
Mark Reistetter, Caltrans D-9



Department of Conservation

Division of Oil, Gas, and Geothermal Resources – District 4

4800 Stockdale Highway • Suite 100

Bakersfield, CA 93309

(661) 322-4031 • FAX (661) 861-0279

December 4, 2017

Ms. Janice Mayes, Planner 2
Kern County Planning and Natural Resources Department
2700 "M" Street, Suite 100
Bakersfield, CA 93301

Subject: EIR JKM 07-17; Edwards AFB Solar Project
SCH No. 2017111079

Dear Ms. Mayes:

The Department of Conservation, Division of Oil, Gas, and Geothermal Resources (Division) has received and reviewed the above referenced Notice of Preparation and submits the following evaluation.

The project is located in Kern County, outside of any of the Division's oil field administrative boundaries. Division records indicate there are no known oil, gas, or geothermal wells located within the project boundary as identified in the notice, and therefore, no further review by the Division is required.

Additionally, there are no known oil, gas, or geothermal wells located along or near any of the project's transmission corridor options.

If during development activities, any wells are encountered that were not part of this review, the property owner/developer shall immediately notify the Division's construction site well review engineer in the Bakersfield district office. The district office will send a follow-up well evaluation letter to the property owner and local permitting agency. Remedial plugging and abandonment operations may be required.

Thank you for the opportunity to comment on this project. Should any questions arise, please contact me in the Bakersfield district office at **(661) 334-3662**.

Sincerely,

For Michael Toland
Senior Oil and Gas Engineer
Environmental Unit Supervisor

Regional

Lahontan Regional Water Quality Control Board

December 27, 2017

File: Environmental Doc Review
Kern County

Janice Mayes, Planner
Kern County Planning Department
2700 M Street, Suite 100
Bakersfield, CA 93301-2323
Email: mavesj@co.kern.ca.us

Comments on the Notice of Preparation of the Draft Environmental Impact Report for the Edwards Air Force Base Solar Project, Kern County, State Clearinghouse Number 2017111079

The California Regional Water Quality Control Board, Lahontan Region (Water Board) staff received the Notice of Preparation (NOP) of the Draft Environmental Impact Report (DEIR) for the above-referenced project (Project) on November 27, 2017. The NOP was prepared by Kern County (County) and submitted in compliance with provisions of the California Environmental Quality Act (CEQA). Water Board staff, acting as a responsible agency, are providing these comments to specify the scope and content of the environmental information germane to our statutory responsibilities pursuant to CEQA Guidelines, California Code of Regulations, title 14, section 15096. Based on our review of the NOP, we recommend that the following be considered in the DEIR: (1) natural drainage channels and flow paths should be maintained through the Project site to ensure no net loss of function and value of waters of the state; and (2) a site-specific Storm Water Pollution Prevention Plan (SWPPP) be prepared that identifies a combination of sediment and erosion control best management practices (BMPs) to effectively treat storm water runoff during the life of the Project. Our comments on the Project are outlined below.

PROJECT DESCRIPTION

The proposed Project is to develop and operate a photovoltaic (PV) solar energy generating facility and associated infrastructure including a 230 kilovolt overhead and underground transmission corridor. The Project site is comprised of up to 3,500 acres in the vicinity Trotter Avenue and Lone Butte Road within the northwest corner of Edwards Air Force Base located in Kern County. The PV solar facility will generate a combined total of 600 megawatts of electrical energy. The Project's permanent facilities include two million solar panels, service roads, security fencing, a power collection system, battery storage, communication cables, overhead and underground transmissions lines, electrical switchyards, a substation, and operations and maintenance facility. The Project would also connect to the Project with the existing privately-owned Westwind

substation in the first phase and later connected to Southern California Edison's Whirlwind Substation in subsequent phases.

SPECIFIC COMMENTS ON THE ENVIRONMENTAL REVIEW

Our specific comments on the Project and environmental review, as they pertain to water quality and hydrology, are outlined below.

1. **Discrepancy in Acreage of Land** – In the Supplementary Information section of the executive summary portion of the report, it states that Alternative A will be developed on up to 4,000 acres. This is different from the description throughout the rest of the document and project description provided for the State Clearinghouse, which states up to 3,500 acres of a 6,000 acre parcel site will be developed. Please resolve this discrepancy in the DEIR.
2. **Project Issues Discussed in Document must include Vegetation** – The Notice of Completion & Environmental Document Transmittal has the Vegetation category unchecked. This section must be addressed in the DEIR within the biological resources section. As described on page 5, Section 1.2.1, subsection Vegetation, limited areas of the proposed Project are unvegetated and such areas show signs of periodic ponding. These areas of ponding should be assessed as potential wetlands areas, which would include the surrounding vegetation. Additionally, some vegetation described in the document are California-protected native plants protected under policy enforced by California Department of Fish and Wildlife.
3. **Insufficient Detail of Post-Construction Storm Water Conveyance and Collection of the Site** – We recommend that the DEIR include sufficient detail of key Project components, particularly post-construction storm water conveyance, collection, and treatment facilities and associated design criteria, so that responsible agencies reviewing the environmental document have adequate information to evaluate potential impacts to environmental resources that are germane to their authority.

GENERAL COMMENTS AND RECOMMENDATIONS

Our general comments and recommendations, as they pertain to renewable energy development within the Lahontan Region, are outlined below.

4. In general, the installation of PV grid systems for these types of projects has the potential to hydrologically modify natural drainage systems. Of particular concern is the collection of onsite storm water runoff and the concentrated discharge of that storm water to natural drainage channels. Design alternatives that are compatible with low impact development (LID) should be considered. LID components include: maintaining natural drainage paths and landscape features to slow and filter runoff and maximize groundwater recharge; managing runoff as close to the source as possible; and maintaining vegetated areas for storm water

management and onsite infiltration. Where feasible, existing topographic contours should be maintained and existing vegetation should be mowed to help mitigate for potential post-construction storm water impacts. We also recommend natural drainage channels and flow paths be maintained through the Project site to avoid no net loss of function and value of waters of the state as a result of Project implementation.

5. A Project-specific SWPPP and implementation of site-specific erosion and sediment control BMPs is an effective way to reduce potentially significant water quality impacts to a less than significant level. To that end, we recommend the development and implementation of a Project-specific SWPPP during both the construction and post-construction phases of the Project. The SWPPP should be applicable to all areas of the Project site, including the solar fields, access roads to and through the site, and the gen-tie line. Please note that temporary BMPs need to be implemented for the Project until such time that vegetation has been restored to pre-Project conditions or permanent BMPs are in place and functioning.
6. The DEIR should identify post-construction storm water management as a significant Project component, and a variety of BMPs that effectively treat post-construction storm water runoff, particularly maintaining native vegetation, should be evaluated as part of the Project. Based on our experience with other solar developments in the Mojave Desert, native vegetation is the most efficient and cost-effective post-construction BMP to treat storm water runoff. Because revegetating disturbed soils in the desert is particularly challenging due to low rainfall, extreme climatic conditions, and relatively slow growth rates, we encourage Project proponents to maintain and mow existing vegetation rather than clear and grub the entire site during construction. For those projects where native vegetation is maintained, we have observed that the need to implement temporary BMPs is greatly minimized and the costs associated with implementation and maintenance of post-construction BMPs is significantly reduced.
7. The DEIR should identify the water quality standards that could potentially be violated by the Project and consider these standards when evaluating thresholds of significance for impacts. Water quality objectives and standards, both numerical and narrative, for all waters of the State within the Lahontan Region, including surface waters and groundwater, are outlined in Chapter 3 of the Basin Plan. Implementation of the proposed Project must comply with all applicable water quality standards and prohibitions, including provisions of the Basin Plan.
8. Ephemeral streams, washes and potential wetland areas are present in the project area. All surface waters are waters of the State. The DEIR will need to fully delineate the extent of waters of the State and evaluate potential impacts to these resources with respect to hydrology and water quality as a result of Project implementation.

9. All temporary impacts to water resource and upland areas should be restored (recontoured and revegetated) to match pre-Project conditions in accordance with a Restoration and Revegetation Plan. The DEIR should include a mitigation measure that requires the preparation and implementation of a Restoration and Revegetation Monitoring Plan, or equivalent document. At a minimum, the plan should include a detailed description of the methods and materials that will be used, a schedule for plan implementation, annual monitoring for a period of no less than 3 years, performance measures that must be met in order for the restoration/revegetation to be deemed successful, and adaptive management criteria in the event performance measures are not being met.
10. All rock slope protection and energy dissipation rip-rap placed within stream channels should be **ungROUTED** and the minimum amount necessary used to provide scour protection.
11. Equipment staging areas, excavated soil stockpiles, and hazardous materials (i.e. oils and fuels) should be sited in upland areas outside surface waters and adjacent flood plain areas. The DEIR should include a mitigation measure for the preparation and implementation of a comprehensive Spill Prevention and Response Plan that outlines the site-specific monitoring requirements and lists the BMPs necessary to prevent hazardous material spills or to contain and cleanup a hazardous material spill, should one occur.
12. Buffer areas should be identified and exclusion fencing used to protect water resources and to prevent unauthorized vehicles or equipment from entering or otherwise disturbing the surface waters. Equipment should use existing roadways to the extent feasible.

PERMITTING REQUIREMENTS

A number of activities associated with the proposed Project appear to have the potential to impact waters of the State and, therefore, may require permits issued by either the State Water Resources Control Board (State Water Board) or Lahontan Water Board. The required permits may include:

13. Streambed alteration and/or discharge of fill material to a surface water may require a CWA, section 401 water quality certification for impacts to federal waters (waters of the U.S.), or dredge and fill waste discharge requirements for impacts to non-federal waters, both issued by the Lahontan Water Board;
14. Land disturbance of more than 1 acre may require a CWA, section 402(p) storm water permit, including a National Pollutant Discharge Elimination System (NPDES) General Construction Storm Water Permit, Water Quality Order (WQO) 2009-0009-DWQ, obtained from the State Water Board, or individual storm water permit obtained from the Lahontan Water Board; and

15. Water diversion and/or dewatering activities may be subject to discharge and monitoring requirements under either NPDES General Permit, Limited Threat Discharges to Surface Waters, Board Order R6T-2014-0049, or General Waste Discharge Requirements for Discharges to Land with a Low Threat To Water Quality, WQO-2003-0003-DWQ, both issued by the Lahontan Water Board.

Please be advised of the permits that may be required for the proposed Project, as outlined above. We request that specific Project activities that may trigger these permitting actions be identified in the appropriate sections of the DEIR. Should Project implementation result in activities that will trigger these permitting actions, the Project proponent must consult with Water Board staff well in advance of Project construction. Information regarding these permits, including application forms, can be downloaded from our web site at <http://www.waterboards.ca.gov/lahontan/>.

Thank you for the opportunity to comment on the DEIR. If you have any questions regarding this letter, please contact me at (760) 241-7307 (shelby.barker@waterboards.ca.gov) or Jan Zimmerman, Senior Engineering Geologist, at (760) 241-7376 (jan.zimmerman@waterboards.ca.gov). Please send all correspondence regarding this Project to the Water Board's email address at Lahontan@waterboards.ca.gov and include the State Clearinghouse Number in the subject line.



Shelby Barker, PG, CHG
Engineering Geologist

cc: State Clearinghouse (SCH 2017111079) (state.clearinghouse@opr.ca.gov)
Daniel Swenson, USACE, Los Angeles (Daniel.P.Swenson@usace.army.mil)
Ali Aghili, CA Department of Fish and Wildlife (Ali.Aghili@wildlife.ca.gov)
Andrea Brewer-Anderson, EAFB (Andrea.Brewer-Anderson@us.af.mil)



Eastern Kern

Air Pollution Control District

Glen E. Stephens, P.E.
Air Pollution Control Officer

December 4, 2017

Janice Mayes, Planner II
Kern County Planning and Natural Resources Department
2700 "M" Street, Suite 100
Bakersfield, CA 93301

SUBJECT: Comments for Notice of Preparation of Draft Environmental Impact Report for
Edwards AFB Solar Project Located in Township 10N, Range 12W and Township
10, Range 11W near Edwards Air Force Base

Dear Ms. Mayes:

Eastern Kern Air Pollution Control District (District) is in receipt of the Notice of Preparation of a Draft Environmental Impact Report (EIR) for the Edwards AFB Solar Project.

Commercial solar power generation facilities 10 acres and larger are required to submit a Fugitive Dust Emission Control Plan, Fugitive Dust Emission Monitoring Plan, and apply for an Authority to Construct prior to commencing construction of the facility.

Additionally, stationary equipment that emits air pollutants (generator sets, concrete batch plants, etc.) may require a permit from the District before installation and operation.

Thank you for your cooperation in this matter. Should you have any questions, please telephone Samuel Johnson our office at (661) 862-5250.

Sincerely,

Glen E. Stephens, P.E.
Air Pollution Control Officer

GES:SJ:tf

RECEIVED

DEC 07 2017

Kern County Planning
Natural Resources Division

INTEROFFICE MEMORANDUM

To: Janice Mayes
From: Evelyn Elizalde
Subject: EIR JKM 07-17; Edwards AFB Solar Project by Edward AFB Solar, LLC (PP18136)

Date: December 7, 2017

The Kern County Environmental Health Division has reviewed the above referenced project. This Division has the local regulatory authority to enforce state regulations and local codes as they relate to waste discharge, water supply requirements, and other items that may affect the health and safety of the public or that may be detrimental to the environment.

The Environmental Health Division requests that the following conditions be placed on the subject project and be satisfied prior to issuance of building permits:

1. The applicant shall submit a business plan to the Hazardous Materials Division for review and approval within 30 days of operation for hazardous materials stored or generated on-site. If you have questions please contact Bilal Korin at (661)862-8730 or korinb@kerncounty.com
2. The method of water supply and sewage disposal for the proposed project shall be approved by Kern County Environmental Health Division.
3. If any abandoned water wells are encountered during the construction process, the applicant shall contact the Land and Water Program for destruction permitting procedures.

A6. Public Scoping

PUBLIC SCOPING REPORT

Edwards AFB Solar Project **by Edwards AFB Solar, LLC (PP18136)**

LEAD AGENCIES:



Department of the Air Force
Headquarters 412th Test Wing (AFMC)
412 CEG/CEVA
120 North Rosamond Boulevard
Edwards Air Force Base, CA 93524-8600
Contact: Andrea Brewer-Anderson
(661) 277-4948

Kern County Planning and
Natural Resources Department
2700 M Street, Suite 100
Bakersfield, CA 93301-2370
Contact: Janice Mayes
(661) 862-8793

TECHNICAL ASSISTANCE BY:

Environmental Science Associates
626 Wilshire Boulevard, Suite 1100
Los Angeles, CA 90017

March 2018

1. Overview of NEPA/CEQA Scoping Process

1.1 Agencies, Organizations, and Persons Providing Scoping Comments

State and local agencies, private and public organizations, and the general public provided written comments during the public scoping period. Written comments received during the public scoping meetings and in response to the NOI/NOP are included in Appendix E. In summary, Table 1 presents the agencies, organizations, and private citizens that provided comments during the NEPA/CEQA scoping process organized in the order they were issued.

Table 1. Comments Received during Public Scoping Period

Commenter	Date
Organizations	
California Unions for Reliable Energy November 30, 2017	The commenter requests to be included in the information distribution for the environmental review.
Kern Audubon Society December 11, 2017	<p>The commenter suggests that the scoping for the project should address the following:</p> <ul style="list-style-type: none"> • Longitudinal studies regarding the habitat of Swainson’s Hawk in the project area should be included in the EIS/EIR • Transmission lines should be designed with bird friendly guidelines, which should be addressed in the EIS/EIR. • Grading and dust control for service roads • Fencing for the project site must consider the movement of migratory species in the area.
Desert Tortoise Council December 24, 2017	<p>The commenter suggests that the Affected Environment Section includes information on the status of:</p> <ul style="list-style-type: none"> • Existing conditions in the project areas with natural vegetation; • Agassiz’s desert tortoise populations, as well as populations of other special status species; <p>The commenter would also like the Environmental Effects section to include a description and locality information that quantifies:</p> <ul style="list-style-type: none"> • Changes to current natural vegetation; • Populations of Agassiz’s desert tortoise, Mohave ground squirrel, burrowing owl, and other rare plant and animal species of concern; • Anticipated change in use of the area by common ravens and other predators of the tortoise; • New activities that will result in surface disturbance and construction of, or modification to, structures and facilities. <p>Additionally, the commenter provides the following recommendations:</p> <ul style="list-style-type: none"> • The latest version of the California Natural Diversity Data Base be accessed to determine what rare plant and animal species may be impacted by the Project

Commenter	Date
	<ul style="list-style-type: none"> • Desert Tortoise populations at EAFB should be analyzed over-time to assess population trends • The relationship between the Project and the latest Integrated Resources Management Plan should be clarified • The relationship between the Project and the Desert Renewable Energy Conservation Plan (DRECP) should be emphasized
Defenders of Wildlife December 24, 2017	The commenter provides the following specific comments: <ul style="list-style-type: none"> • Protocol surveys should be performed for the desert tortoise, the burrowing owl, the Desert kit fox, and the Mohave ground squirrel over the entire project area • An offsite alternative to address the residual habitat impacts of surface disturbance should be considered • Joshua Tree Woodlands should be carefully accounted for to protect their diminishing habitat • Native vegetation should be preserved as much as possible
San Manuel Band of Mission Indians January 2, 2018	The commenter requests continued consultation with Edwards AFB and the County of Kern on matters of great archaeological sensitivity and on their cultural resources-based concerns.
State of California, Natural Resources Agency – Department of Fish and Wildlife (CDFW) January 22, 2018	The commenter suggests that the project implement the following mitigation measures to reduce impacts to rare plant and animal species: <ul style="list-style-type: none"> • Conduct preliminary biological assessments of the Project site and a 1/2 –mile buffer to help inform the EIR • Desert Tortoise: <ul style="list-style-type: none"> ○ Mitigation Option 1: Prior to starting any Project-related activities, the Project proponent shall obtain incidental take authorization from CDFW per Fish and Game Code Section 2081 by submitting an incidental take permit (ITP) application to CDFW for review ○ Mitigation Option 2: No more than 14 days prior to the start of construction-related activities, the Project Proponent shall hire a qualified biologist to conduct pre-activity surveys for Desert Tortoise on the entire Project site. Burrows will be identified and flagged. Following the survey, the Project proponent shall mitigate for the modification or removal of Desert Tortoise habitat by recording a permanent conservation easement. • Mojave Ground Squirrel: <ul style="list-style-type: none"> ○ Apply Mitigation options 1 and 2 for the Desert Tortoise population to the Mojave Ground Squirrel population. • Swainson’s Hawk: <ul style="list-style-type: none"> ○ Apply Mitigation options 1 and 2 for the Desert Tortoise population to the Swainson’s Hawk population. • Desert Kit Fox: <ul style="list-style-type: none"> ○ Apply Mitigation options 1 and 2 for the Desert Tortoise population to the Desert Kit Fox population. • Burrowing Owl:

Commenter	Date
	<ul style="list-style-type: none"> ○ Apply Mitigation options 1 and 2 for the Desert Tortoise population to the Burrowing Owl population. ● Other Nesting Birds: <ul style="list-style-type: none"> ○ The CDFW recommends Project construction and decommissioning occur during the non-breeding bird season, if possible. ○ All meteorological and communication towers shall be of monopole design to reduce bird collision, injury, or death. ○ Additionally, apply Mitigation options 1 and 2 for the Desert Tortoise population to other nesting bird populations. ● Alkali Mariposa Lily and Mojave Spineflower: <ul style="list-style-type: none"> ○ Apply mitigation options 1 and 2 for the Desert Tortoise population to the Alkali Mariposa Lily and Mojave Spineflower populations. ● Joshua Trees: <ul style="list-style-type: none"> ○ Apply Mitigation options 1 and 2 for the Desert Tortoise population to the Joshua Tree population. <p>Finally, the commenter states that the Project would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final.</p>
Individuals	
J.D. Smith December 12, 2017	<p>The commenter attended the December 12th scoping meeting. The commenter provides the following comment:</p> <ul style="list-style-type: none"> ● Dust mitigation measures and alternatives should be thoroughly evaluated in the EIS/EIR
Douglas Clipperton December 12, 2017	<p>The commenter attended the December 12th scoping meeting. The commenter provides the following comment:</p> <ul style="list-style-type: none"> ● Trotter Avenue should be paved as a mitigation measure to reduce project impacts to aesthetic resources and air quality resources.
Linda Roger December 12, 2017	<p>The commenter attended the December 12th scoping meeting. The commenter provides the following comments:</p> <ul style="list-style-type: none"> ● High intensity power lines pose a cancer risk to children that reside near the gen-tie route option lines’. ● Desert Candle flowers are a primary resource for Desert Tortoise and the project site is located on one-of only two Antelope Valley habitat sites. ● Alternative project locations, farther from populated areas, were not considered.
Mike Movsessyan December 12, 2017	<p>The commenter is concerned about the industrialization of the project site and surrounding areas. The commenter requests the following information:</p> <ul style="list-style-type: none"> ● How many panels are involved and what are they made of; ● Who are the developers and the engineers for this project; ● Whether ecological considerations have been thoroughly evaluated;

Commenter	Date
	<ul style="list-style-type: none">• Whether construction of the project will create a large volume of traffic, thus creating a CO₂ emissions issue.

Organization Comments

ADAMS BROADWELL JOSEPH & CARDOZO

A PROFESSIONAL CORPORATION

ATTORNEYS AT LAW

601 GATEWAY BOULEVARD, SUITE 1000
SOUTH SAN FRANCISCO, CA 94080-7037

TEL (650) 589-1660
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ssannadan@adamsbroadwell.com

SACRAMENTO OFFICE

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SACRAMENTO, CA 95814-4721

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MILA A. BUCKNER
DANIEL L. CARDOZO
CHRISTINA M. CARO
THOMAS A. ENSLOW
TANYA A. GULESSERIAN
MARC D. JOSEPH
RACHAEL E. KOSS
COLLIN S. MCCARTHY
LINDA T. SOB CZYNSKI

November 30, 2017

VIA EMAIL AND US MAIL

Gary Hatch
Environmental Public Affairs
Bldg. 1405, Room 400
Edwards Air Force Base, California 93524
Email: 412tw.pae@edwards.af.mil

Re: **Request for Mailed Notice of NEPA Actions and Public Hearings - EIR JKM 07-17; Edwards AFB Solar Project (PP18136)**

Dear Mr. Hatch:

We are writing on behalf of California Unions for Reliable Energy to request mailed and emailed notice of any and all hearings, public meetings, environmental review documents, and other actions related to the Edwards AFB Solar Project ("Project") proposed by Edwards AFB Solar, LLC, as well as a copy of the environmental review document when it is made available for public review.

The proposed Project involves the lease of land from Edwards Air Force Base ("AFB") to AFB Solar, LLC for the construction, operation, and maintenance of a solar photovoltaic energy generating facility of up to 600 megawatts; including a substation and operations and maintenance facility on non-excess land at Edwards AFB. The Project also includes development of an associated 230-kilovolt generation interconnection transmission line to be located along land subject to the jurisdiction of Kern County and the Air Force.

This request is made pursuant to the National Environmental Policy Act ("NEPA"), 42 U.S.C. §§ 4231 et seq., including Code of Federal Regulations sections 40 C.F.R. §§ 1506.6(b)(1), 1501.4(e)(1), and 1501.7(a)(1), which require the lead NEPA agency to mail to all members of the public who have requested it notice of all NEPA-related hearings, public meetings, and the availability of environmental documents related to an action or project.

3692-004acp

November 30, 2017

Page 2

Please send the above requested items by email and U.S. Mail to our South San Francisco Office as follows:

U.S. Mail

Sheila Sannadan
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080-7037

Email

ssannadan@adamsbroadwell.com

Please call me at (650) 589-1660 if you have any questions. Thank you for your assistance with this matter.

Sincerely,



Sheila M. Sannadan
Legal Assistant

SMS:acp

3692-004acp



Kern Audubon Society
PO Box 3581
Bakersfield CA 93385

December 11, 2017

Mr. Gary Hatch
Environmental Public Affairs
Building 1405, Room 400
Edwards AFB, CA 93524

RE: Scoping issues regarding EIS/EIR for solar project

Dear Mr. Hath,

The Kern Audubon Society has conducted and sponsored several birding outings in the area adjacent to the base. We have also been involved with several solar projects that have been built in the Antelope Valley. With many of the projects, key biological issues were raised and necessary mitigation measures were included in the final EIR.

Therefore the scoping for the project should address the following concerns:

- 1) **Swainson's hawk:** habitat, both foraging and roosting. Longitudinal studies of the area for this species in important to include in the draft EIS/EIR.
- 2) **Transmission lines:** Those to be used to transport electricity must be of the design to reduce bird collisions. The EIS/EIR must address the issue of bird friendly guidelines used on any towers associated with the project.
- 3) **Service roads:** grading, dust control
- 4) **Fencing:** project fencing must consider ability for migratory ground species to move freely in the area.

Sincerely,

Harry Love, Conservation Chair

Janice Mayes

From: Ed LaRue [REDACTED]
Sent: Sunday, December 24, 2017 4:25 PM
To: 412tw.pae@edwards.af.mil; Janice Mayes
Subject: Desert Tortoise Council comment letter on proposed solar facility at Edwards Air Force Base
Attachments: EAFB Solar Fields.12-27-2017.pdf

Dear Mr. Hatch, Ms. Mayes,

Please find attached our comment letter. As an Affected Interest, we look forward to seeing how our scoping comments are addressed in your Draft EIR/EIS, which may be directly delivered to the contact information given below. Good luck with your analyses.

Ed LaRue

Edward L. LaRue, Jr., M.S.
Desert Tortoise Council, Ecosystems Advisory Committee

[REDACTED]

www.deserttortoise.org

[REDACTED]



DESERT TORTOISE COUNCIL

4654 East Avenue S #257B

Palmdale, California 93552

www.deserttortoise.org

eac@deserttortoise.org

Via email only

24 December 2017

Mr. Gary Hatch, Environmental Public Affairs
Bldg. 1405 Room 400,
Edwards Air Force Base, CA 93524
412tw.pae@edwards.af.mil

Ms. Janice Mayes, Kern County Planning
and Natural Resources Department
2700 M Street, Suite 100
Bakersfield CA, 93301
majesj@kerncounty.com

RE: Notice of Intent to Prepare an Environmental Impact Statement and Environmental Impact Report for the Edwards Air Force Base Solar Enhanced Use Lease Project

Dear Mr. Hatch, Ms. Mayes,

The Desert Tortoise Council (Council) is a non-profit organization comprised of hundreds of professionals and laypersons who share a common concern for wild desert tortoises and a commitment to advancing the public's understanding of this species. Established in 1975 to promote conservation of tortoises in the deserts of the southwestern United States and Mexico, the Council routinely provides information to individuals, organizations, and regulatory agencies on matters potentially affecting the desert tortoise within its geographic range.

Based on the Notice of Preparation (NOP) dated 27 November 2017, we understand that the various alternatives may affect between 1,500 and 4,000 acres of non-excess property on the northwestern corner of Edwards Air Force Base (EAFB), and that the associated Gen-tie line would be 10 to 14 miles long, running westward towards Tehachapi. To effectively define the full range of issues to be evaluated in the Environmental Impact Statement (EIS) to be completed by the U.S. Air Force (Air Force) and Environmental Impact Report (EIR) by the Kern County Planning and Natural Resources Department (County), the Air Force and County, respectively, will determine the scope of the analysis by soliciting comments from interested local, state and federal elected officials and agencies, as well as interested members of the public and others.

For the Affected Environment section, we request that the Air Force and County include information on the status of:

- Existing conditions in the project area that quantifies areas with natural vegetation;
- Agassiz's desert tortoise (*Gopherus agassizii*) populations, as well as populations of other special-status species, including (but not limited to) Mohave ground squirrel (*Xerospermophilus mohavensis*), burrowing owl (*Athene cunicularia*), desert cymopterus (*Cymopterus deserticola*), Barstow woolly sunflower (*Eriophyllum mohavense*), and near the western terminus of the Gen-tie line, Bakersfield cactus (*Opuntia basilaris* var. *treleasei*), which is listed as a Federally Endangered species;
- suitable and occupied habitats for the desert tortoise, Mohave ground squirrel, burrowing owl, and other rare plant and animal species of concern;
- use of the area by common ravens (*Corvus corax*) and other predators of the desert tortoise;
- areas previously disturbed by human development/use (including past and ongoing grazing by domestic sheep, existing structures and facilities, etc.); and
- presence of any hazardous materials.

Regarding alternatives to the proposed action, we urge the Air Force and County to develop an alternative that has a minimum impact footprint on the natural environment by limiting surface disturbance activities within the proposed project for the conservation of the desert tortoise and other rare plant and animal species. This alternative would possibly provide the Air Force with a means to meet its mission and comply with Section 7(a)(1) of the Federal Endangered Species Act.

The Environmental Effects section should include a description and locality information that quantifies:

- Changes to current natural vegetation;
- populations of Agassiz's desert tortoise, Mohave ground squirrel, burrowing owl, and other rare plant and animal species of concern;
- changes in habitats for Agassiz's desert tortoise, Mohave ground squirrel, burrowing owl, and other rare plant and animal species of concern;
- anticipated change in use of the area by common ravens and other predators of the tortoise; and
- new activities that will result in surface disturbance and construction of, or modifications to, structures and facilities.

Based on the locations of the various alternatives for both the solar fields and Gen-tie lines, we conclude that all project components are found within suitable habitats for both the Agassiz's desert tortoise and Mohave ground squirrel. Baseline data for the occurrence of these two species must be obtained by performing protocol surveys for both the tortoise [U.S. Fish and Wildlife Service (USFWS) 2017a] and the Mohave ground squirrel [California Department of Fish and Game (CDFG, currently CDFW) 2003 (revised 2010)] throughout all alternative solar fields and Gen-tie lines. Before a given alternative is chosen, the results of these surveys must be considered and applied to ascertain impacts and select project component locations associated with each alternative. Additionally, the Air Force and County must consider other alternatives other than those proposed in the NOP based on the results of field surveys should an alternative not currently identified accommodate development and facilitate reduced impact levels.

In addition to protocol surveys for these two listed species, we expect that the Air Force and County will require that requisite inventory surveys be completed for burrowing owl (CDFW 2012), special status plant species (CDFW 2009), and given the location in Kern County, Swainson's hawk (*Buteo swainsoni*) (CDFG 2010).

The latest version of the California Natural Diversity Data Base (likely CDFW 2018) must be accessed to determine the rare plant and animal species reported from the region that would then be included in the EIR/EIS so that a full impacts analysis can be completed and pertinent mitigation measures identified.

We recognize that the Air Force and EAFB have conducted extensive resource inventories throughout the base since the early 1990's, up through the spring of 2016 when desert tortoise surveys were performed. As such, there is an excellent opportunity for the status and trends of biological resources to be summarized and pertinent results documented in the EIR/EIS for the northwestern portion of EAFB where the project is proposed. In particular, given the 51% decline of tortoises in the Western Mojave Recovery Unit between 2004 and 2014 (USFWS 2017b), what are the trends in tortoise populations at EAFB? Have similar declines been noted, is the population stable, or increasing? How would the proposed project contribute to tortoise population decline or growth on the base in the context of recent trends?

With regards to desert cymopterus, which is designated as a List 1B.2 species [i.e., List 1B.2 plants are rare, threatened, or endangered in California and elsewhere; and, specifically, fairly threatened in California (moderate degree/immediacy of threat)], we understand that the USFWS was petitioned to list desert cymopterus under the Federal Endangered Species Act. Because the Air Force and Bureau of Land Management (BLM) were committed to managing for desert cymopterus and its habitat at EAFB and on public lands, respectively, in 2004 the USFWS determined that the listing was not warranted at the time. How would the various alternatives affect the Air Force's protection and management of desert cymopterus? If focal surveys for desert cymopterus have not been completed in the vicinity of the proposed alternatives, they must be performed and discussed in the EIR/EIS relative to the 2004 USFWS decision.

The proponent must indicate the relationship of this project with the latest Integrated Natural Resources Management Plan (INRMP) completed at EAFB. Did the INRMP foresee or does it facilitate solar development in the proposed areas? It is important that the next INRMP developed by the Air Force for EAFB address this and potential future renewable energy development on the base. We also ask the Air Force to list the Council as an Affected Party when the next draft INRMP is developed so that we may have input into its development.

The EIR/EIS must analyze if this new use would result in an increase of common ravens and other predators of the desert tortoise in the region. Future operations must include provisions for monitoring and managing raven predation on tortoises as a result of the proposed action. The monitoring and management plan must include reducing human subsidies for food, water, and sites for nesting, roosting, and perching to address local impacts. The responsible party must contribute to the National Fish and Wildlife Foundation's Raven Management Fund for regional and cumulative impacts. It is very important that for any of the Gen-tie options the project should use transmission towers that prevent raven nesting. For example, the tubular design with insulators on horizontal cross arms is preferable to lattice towers, which should not be used.

The Council on Environmental Quality's National Environmental Policy Act (NEPA) Guidelines (40 CFR 1506.1) state limitations on actions during the NEPA process, which includes limiting the choice of reasonable alternatives. We note that the Air Force appears to have already chosen locations for the installation and placement of solar panels and Gen-tie lines. We believe that locations of facilities must be planned using the best available environmental baseline data, which is extensive at EAFB. Therefore, the EIR/EIS, using existing baseline data and new data collected specifically for this project, must analyze why this particular location is preferred over other locations both inside and outside EAFB where fewer rare biological resources may occur.

We request that the EIR/EIS address the effects of the proposed action on global warming and the effects that global warming may have on the proposed action. For the latter, we recommend including: an analysis of habitats within the project that may provide refugia for tortoise populations; an analysis of how the proposed action would contribute to the spread and proliferation of nonnative invasive plant species; how this spread/proliferation would affect the desert tortoise and its habitats (including the frequency and size of human-caused fires); and how the proposed action may affect the likelihood of human-caused fires. We strongly urge the Air Force to develop and implement a management and monitoring plan using this analysis and other relevant data that would reduce the transport to and spread of nonnative seeds and other plant propagules within the project area and eliminate/reduce the likelihood of human-caused fires. The plan should integrate vegetation management with fire management and fire response.

When the Air Force is discussing its development of mitigation and monitoring of impacts to Agassiz's desert tortoise in the EIS, we recommend that this discussion include explicit details of the actions that the Air Force will carry out to implement its Section 7(a)(1) responsibilities under the Federal Endangered Species Act.

Finally, with regards to cumulative effects, the EIR/EIS must list and discuss all project impacts within the region including future state, federal, and private actions affecting listed species on state, federal, and private lands. In particular, we ask that the relationship between this proposed project and the Desert Renewable Energy Conservation Plan (DRECP) be analyzed, as the project area does not appear to be in a designated Development Focused Area (DFA) identified in the final Record of Decision by the BLM for the DRECP (BLM 2016).

Herein, we ask that the Desert Tortoise Council be identified as an Affected Interest for this project, and that any subsequent environmental documentation (including future INRMPs developed by the Air Force for EAFB) be provided to us for an opportunity to provide additional input.

Regards,



Edward L. LaRue, Jr., M.S.

Desert Tortoise Council, Ecosystems Advisory Committee, Chairperson

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December 22, 2017

Gary Hatch
Environmental Public Affairs
Building 1405, Room 400
Edwards AFB, CA 93524
Via email to: 412tw.pac@edwards.af.mil

Mr. Hatch;

Thank you for the opportunity to submit scoping comments on the proposed Edwards Air Force Base (EAFB) Solar Project (ESP) and alternatives. Comments contained in this letter are submitted by Defenders of Wildlife (Defenders) on behalf of its 1.2 million members and supporters in the U.S. including approximately 120,000 in California. Defenders is dedicated to protecting all wild animals and plants in their natural communities. To that end, Defenders employs science, public education and participation, media, legislative advocacy, litigation, and proactive on-the-ground solutions to prevent the extinction of species, associated loss of biological diversity, and habitat alteration and destruction.

A Defenders staff member participated in a field trip to the site hosted by personnel from EAFB on September 24, 2012. Following the field trip, Defenders submitted comments on the proposed Project in a letter dated October 23, 2012. At that time the proposed Project was in the early conceptual phase and a specific installation site had not been selected. This conceptual project was at the time referred to as the “Oro Verde EUL Solar Energy Project.”

Please find below our scoping comments grouped by subject:

1. **Required agency permits.** We are pleased the Project scoping notice recognizes the need for the U.S. Air Force to obtain state and federal permits for the incidental take of listed species (i.e., Mohave ground squirrel [*Xerospermophilus mohavensis*] – a California-listed threatened species; and Agassiz’s desert tortoise [*Gopherus agassizii*] – a California and federally-listed threatened species). The need to obtain a Streambed Alteration Agreement from the California Department of Fish and Wildlife (CDFW) is also recognized.

2. **Special status species.** Several special status species of wildlife likely occur on the project area, including but not limited to Agassiz’s desert tortoise, burrowing owl (*Athene cunicularia*) and Mohave ground squirrel.

A. **Agassiz’s desert tortoise.** The project is located within the range of the threatened Agassiz’s desert tortoise, with maps of suitable habitat, habitat intactness and high probability of occurrence available on DataBasin, as follows:

- Modeled suitable habitat:
<https://databasin.org/maps/new#datasets=47f02745fd9443b6962d5a759ac590a8>.
- Habitat intactness:
<https://databasin.org/maps/new#datasets=62385c70db6c44cebf618d1b71aac1a4>.
- High probability of occurrence:
<https://databasin.org/maps/new#datasets=16fced1bca7a4199bbb8b49469db0a04>.

We recommend that protocol surveys for the desert tortoise be performed on the entire Project area, plus the adjacent zone of influence. The U.S. Fish and Wildlife Service (USFWS) office in Palm Springs, CA should be contacted regarding the latest protocol survey documentation.

The USFWS should also be contacted to discuss the need for incidental take permits if tortoises encountered during the survey would be handled or harassed in any way (i.e., handled for marking, attaching transmitters, assessed for symptoms of disease, body size and weight measurements). If habitat patches within the Project area are occupied by significant numbers of tortoises, as identified during protocol surveys, we recommend these lands be fully avoided. If such avoidance isn't possible or practicable, other habitats on EAFB that are occupied by tortoise should be targeted for tortoise conservation through the Integrated Natural Resources Management Plan (INRMP) process, at a ratio of 3 acres conserved for each acre of habitat lost relative to Project surface disturbance impacts.

An offsite alternative to address the residual habitat impacts of surface disturbance should also be considered, whereby habitat suitable for tortoises (and perhaps other imperiled species such as Mohave ground squirrel) is acquired and managed by an accredited mitigation banking or land trust entity for long-term conservation. EAFB has previously participated in securing extensive conservation lands for tortoises and Mohave ground squirrel north of Kramer Junction and west of U.S. Highway 395 with the U.S. Bureau of Land Management during the 1990s Land Tenure Adjustment (LTA) Project; as well as certain land trusts east of this area, within the Black Mountain Supersonic Corridor north and northeast of EAFB. Securing conservation lands within this corridor, as well as perhaps other installation buffer lands, provides multiple benefits as identified in the Readiness and Environmental Integration (REPI) Program. These benefits have even recently been highlighted in a detailed report entitled "Evaluation Encroachment Pressures on the Military Mission in the California Desert Region."¹

- B. **Burrowing owl.** The burrowing owl is designated a Species of Special Concern by the CDFW and protected under the federal Migratory Bird Treaty Act. We recommend EAFB and/or the Project managers contact the CDFW regarding protocol survey requirements for the burrowing owl and mitigation for unavoidable and residual impacts required under the California Fish and Game Code. A recent report on burrowing owl impact mitigation is available from the CDFW:
<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline=true>.

Burrowing owl habitat has also been mapped based on evaluated species distribution models, including areas within EAFB and adjacent lands in the California Desert:
<https://databasin.org/maps/new#datasets=2f61a32ebce64383b6f5c864106db80c>.

- C. **Mohave ground squirrel.** The proposed project is located on land within the range of the Mohave ground squirrel, listed as a threatened species under the California Endangered Species Act (CESA). Recent models show the distribution, habitat intactness and high probability of occurrence for Mohave ground squirrels as follows:
- Predicted occupied habitat:
<https://databasin.org/maps/new#datasets=063de529c9dd4635bb9f019cd0c0ca2a>.
 - Habitat intactness:
<https://databasin.org/maps/new#datasets=140b02d096d74afca5f95e419b66924b>.
 - High probability of occurrence:
<https://databasin.org/maps/new#datasets=657de08f416241f294fc4e189243fdab>.

¹ Sonoran Institute. 2017. Tucson, Arizona. <https://sonoraninstitute.org/files/ProtectingCalDesertMilitary.pdf>.

Protocol surveys for this species should be conducted after obtaining required permits from the CDFW. If the species occurs within the project area, it is expected that CDFW will require mitigation for unavoidable and/or residual impacts, which is typically calculated at a ratio of 3 acres protected or conserved for each acre of occupied habitat lost. If protocol surveys reveal that habitat patches within the project area are occupied by significant numbers of Mohave ground squirrels, we recommend other habitats on EAFB that are occupied by this species be targeted for conservation through the INRMP process, at a ratio of 3 acres conserved for each acre of habitat lost relative to Project surface disturbance impacts. As recommended for tortoises above, an offsite alternative to address the residual habitat impacts of surface disturbance should also be considered, whereby habitat suitable for Mohave ground squirrel is acquired and managed by an accredited mitigation banking or land trust entity for long-term conservation.

- D. **Desert kit fox.** The desert kit fox is designated as a Fully Protected species under the California Fish and Game Code, which specifies that this species cannot be taken or possessed at any time, and that CDFW cannot issue incidental take permits. Thus, take of the species must be fully avoided. CDFW will require that protocol surveys be performed so that all active dens can be identified and individual animals safely removed/relocated outside of the Project area. EAFB and/or Project managers should contact Region 4 CDFW Office in Fresno regarding survey/safe relocation protocols.

Recent models show the distribution, habitat intactness and high probability of occurrence of desert kit foxes, as follows:

- Predicted occupied habitat:
<https://databasin.org/maps/new#datasets=f15b1247f2bc433f8758be6c9439a3aa>.
- High probability of occurrence:
<https://databasin.org/datasets/725666446ed84cb68fa5432faa6ab4cf>.
- Habitat intactness:
<https://databasin.org/datasets/498fe481061940e783bee518489d55be>.

2. **Joshua Tree Woodlands.** Based on imagery available on Google Earth as well as DataBasin,² it appears the proposed Project area supports extensive stands of Joshua Tree Woodland, a natural community once abundant in the western Mojave Desert, but now relatively rare in many areas due to land development for housing, agriculture, industry and transportation systems. A distinct concern relative to the species' continued existence in northern portions of its range is the effect of climate change. Due to its limited abundance, we recommend the Project be designed to avoid as much intact Joshua Tree Woodland as practicable in conjunction with protection of habitat occupied by Agassiz's desert tortoise and Mohave ground squirrel.

3. **Project site preparation.** Although earth-moving and compaction is not proposed within the expanse of solar panel arrays, the scoping notice indicates these areas would be subject to disk-and-roll grading to maintain the general slopes and topography of the site, and any necessary clearing of vegetation. In addition, site preparation would also include vegetation clearing using movers, skip loaders, chippers and dump trucks.

Site preparation would begin by clearing existing vegetation, to the extent necessary, using mowers, skip loaders, chippers, and dump trucks. We have visited several solar projects using PV technology that utilized the disk-and-roll grading which has been described as more ecologically-suitable because it leaves root systems of native vegetation in place and aids in soil stability and site recovery.

² <https://databasin.org/datasets/69d8a9eacbc2499cb5344c08d4368937>.

However, we urge caution regarding this type of grading because all the project sites we have visited had been essentially scraped-bare of all vegetation, watered and treated to minimize dust generation. The sites certainly didn't appear to have been treated in a more ecological-friendly manner.

We recommend that native vegetation within solar panel arrays be left in place and that no mowing and disk-and-roll treatments occur. This could be achieved by designing the pile and framework system to exceed the height of the natural vegetation community. We recognize, however, that some number of Joshua trees would require removal due to their greater height above the more abundant desert scrub vegetation.

This concludes the comments and recommendations on the proposed ESP from Defenders. Please contact Defenders staff as outlined below if you would like to discuss the contents of our letter in more detail or would like additional information.

Sincerely,



Jeff Aardahl
California Representative
Defenders of Wildlife
46600 Old State Highway, Unit 13
Gualala, CA 95445
jaardahl@defenders.org



Thomas B. Egan
California Desert Representative
Defenders of Wildlife
P.O. Box 388
Helendale, CA 92342
regan@defenders.org

Public Comments

From: Lee Clauss [REDACTED]

Sent: Tuesday, January 2, 2018 2:22 PM

To: BREWER-ANDERSON, ANDREA NH-03 USAF AFMC 412 CEG/CEVA <andrea.brewer-anderson@us.af.mil>

Cc: KNESEL, CLIFFORD A NH-03 USAF AFMC 412 CEG/CEVA <clifford.knesel.1@us.af.mil>; RADEMACHER, THOMAS A NH-03 USAF AFMC 412 CEG/CEVA <thomas.rademacher.2@us.af.mil>

Subject: [Non-DoD Source] Notice of Scoping for EIS/EIR for EAFB Solar Project

Dear Ms. Brewer-Anderson:

Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management (CRM) Department on December 8, 2017.

The proposed project area exists within Serrano ancestral territory and, therefore, is of interest to the Tribe. Unfortunately, however, we were not able to attend the public meeting held on December 12, 2017. That said, please note that in the Spring of 2017, SMBMI (via their CRM Department) began consultation, pursuant to Section 106 of the National Historic Preservation Act (NRHP), with Edwards AFB (via Tom Rademacher, Cliff Knesel, and Osmar Alaniz) regarding this project. We have also requested to consult with the County of Kern regarding this project pursuant to CEQA (as amended, 2014) and CA PRC 21080.3.1.

As there is great archaeological sensitivity throughout the proposed Project area, SMBMI desires to continue consultation with Edwards AFB and the County of Kern on this matter and requests to receive a copy of the Draft EIS/EIR for our review and comment prior to its dissemination to the public. We are also interested in conducting additional consultation on our cultural resources-based concerns, prior to the drafting of this environmental document, should either Edwards AFB or County of Kern be amenable and available.

If you should have any further questions or require further clarification, please do not hesitate to contact me at your convenience, as I will be your Point of Contact (POC) for SMBMI with respect to this project.

Respectfully,

Lee Clauss

DIRECTOR, CULTURAL RESOURCES MANAGEMENT

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

<<http://www.sanmanuel-nsn.gov>>

From: Lucy Snyder [REDACTED]

Sent: Tuesday, December 26, 2017 4:02 PM

To: Planning Department <Planning@kerncounty.com>

Subject: PROJECT: EIR JKM 07-17; Edwards AFB Solar Project by Edwards AFB Solar LLC (PP181360)

Dear Director Oviatt and Planning Commission:

I am one of the property owners who received a letter pertaining to an EIR for the above project. My property is within 1,000 feet of the proposed project. My parcel of ten acres is: #428-174-25-00-9.

This project will render my property worthless. My family has been paying taxes on this parcel for almost 60 years. I thought I could eventually use this property for retirement or to contribute to my retirement. I have been a Californian all my life, paying taxes and supporting this State and County. I'm not a big corporation that can simply write off this loss.

It is my opinion that this project should be contained within the air force base. The map indicates it does exceed it, thereby creating a hardship for those properties adjacent to it. I am very much against the boundaries outlined in your map and letter. I would like to attend the project hearing if you can advise me of the date when it is scheduled.

Sincerely,

Lucy A. Snyder

Owner of Parcel # [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Appendix B:

Technical Reports

B1. Fate and Transport Evaluation

FATE AND TRANSPORT EVALUATION OF POTENTIAL LEACHING RISKS FROM CADMIUM TELLURIDE PHOTOVOLTAICS

PARIKHIT SINHA,*† ROBERT BALAS,‡ LISA KRUEGER,† and ANDREAS WADE§

†First Solar, Tempe, Arizona, USA

‡Iris Environmental, Oakland, California, USA

§First Solar GmbH, Berlin, Germany

(Submitted 23 November 2011; Returned for Revision 17 January 2012; Accepted 8 March 2012)

Abstract—Fate and transport analysis has been performed to evaluate potential exposures to cadmium (Cd) from cadmium telluride (CdTe) photovoltaics (PV) for rainwater leaching from broken modules in a commercial building scenario. Leaching from broken modules is modeled using the worst-case scenario of total release of Cd, and residential screening levels are used to evaluate potential health impacts to on-site workers and off-site residents. A rooftop installation was considered rather than a ground-mount installation because rainwater runoff is concentrated via building downspouts in a rooftop installation rather than being dispersed across large areas in a ground-mount installation. Fate and transport of Cd from leachate to soil are modeled using equilibrium soil/soil-water partitioning. Subsequent migration to ambient air as windblown dust is evaluated with a screening Gaussian plume dispersion model, and migration to groundwater is evaluated with a dilution-attenuation factor approach. Exposure point concentrations in soil, air, and groundwater are one to six orders of magnitude below conservative (residential soil, residential air, drinking water) human health screening levels in both a California and southern Germany (Baden-Württemberg) exposure scenario. Potential exposures to Cd from rainwater leaching of broken modules in a commercial building scenario are highly unlikely to pose a potential health risk to on-site workers or off-site residents. *Environ. Toxicol. Chem.* 2012;31:1670–1675. © 2012 SETAC

Keywords—Cadmium telluride Leaching Risk assessment Fate and transport Cadmium telluride photovoltaics

INTRODUCTION

Solar energy is an important technology for climate change mitigation and development of a low carbon economy because it offers the highest global technical potential for electricity generation among renewable energy sources [1]. In particular, cadmium telluride (CdTe) thin film photovoltaic (PV) modules have the lowest life cycle carbon footprint and fastest energy payback time of current PV technologies [2]. Although CdTe has been shown to be significantly less toxic than elemental cadmium (Cd) on an acute basis [3], the primary health and safety concern for CdTe PV is the potential introduction of Cd compounds into the environment. When considered on a life cycle basis from raw material acquisition through product end-of-life, CdTe PV has been found to produce environmental Cd emissions to air that are no higher than those from conventional silicon PV technologies [4,5]. Moreover, because Cd is an unavoidable by-product of Zn mining, large-scale deployment of CdTe PV sequesters waste Cd that would otherwise be disposed of [6]. Prefunded end-of-life takeback and recycling programs also significantly reduce the overall environmental impact of CdTe PV modules [7].

Under normal operation, CdTe PV modules do not pose a threat to human health or the environment, because during the manufacturing process, the CdTe semiconductor layer is bound under high temperature to one sheet of glass, coated with an industrial laminate material, and then encapsulated between a second sheet of glass. However, some stakeholders have raised

concerns about the potential exposure to CdTe from leaching of broken modules, defined as modules with cracked glass or broken pieces. Breakage results from extreme weather or human factors. Although rare, breakage followed by precipitation may potentially result in leaching of CdTe from modules and subsequent exposure to Cd compounds in soil, air, or groundwater. This analysis uses fate and transport modeling to estimate potential exposures to Cd compounds resulting from leaching and then evaluates the potential health effects associated with these exposures.

Fate and transport scenarios were evaluated for two geographic locations, southern Germany and California. Germany is among the world's leading PV markets, having accounted for nearly half of global demand in 2010 [8]. This analysis focuses on the higher solar irradiance region of southern Germany (Federal State of Baden-Württemberg). California is a leading PV market in the United States, and in 2011, the California state legislature adopted a renewable portfolio standard of 33% by 2020 (<http://www.cpuc.ca.gov/PUC/energy/Renewables/index.htm>).

In the present analysis, a commercial building scenario was chosen rather than a residential building scenario because the larger PV array size for commercial buildings increases the probability that module breakage may occur in a given year. However, both nonresidential (on-site) and residential (off-site) exposure scenarios were considered and evaluated using residential screening values. A rooftop installation was considered rather than a ground-mount installation because rainwater runoff can be concentrated via building downspouts in a rooftop installation (impact via concentrated stream) rather than being dispersed across large areas in a ground-mount installation. The evaluation considers the worst-case scenario in which the total mass of Cd in each broken module is released.

* To whom correspondence may be addressed (parikhhit.sinha@firstsolar.com).

Published online 2 May 2012 in Wiley Online Library (wileyonlinelibrary.com).

MATERIALS AND METHODS

The present analysis considers broken CdTe PV modules located on the rooftop of a commercial building. Potential receptors considered for analysis include on-site commercial/industrial workers and off-site residents. Under this exposure scenario, potential exposure to Cd is considered for commercial/industrial workers via inhalation of, dermal contact with, and ingestion of Cd leached into soil, as well as exposure to groundwater potentially impacted by leachate. Also under this exposure scenario, potential exposure to Cd is considered for off-site residents via inhalation of windblown dust from affected soil and exposure to groundwater potentially impacted by leachate.

To characterize these potential exposure scenarios, exposure point concentrations of Cd in soil, air, and groundwater are estimated using a fate and transport analysis. The estimated exposure point concentrations are the relevant concentrations to which on-site workers or off-site residents may potentially be exposed. The exposure point concentration for soil is only relevant to the on-site worker who may potentially have incidental contact with on-site surface soil during the workday. The exposure point concentration for air is relevant to both the on-site worker and off-site resident who may potentially inhale affected ambient air. The exposure point concentration for groundwater is relevant to both the on-site worker and off-site resident who may potentially use groundwater as drinking water.

To evaluate potential human health impacts, estimated exposure point concentrations are compared to human health screening levels. Nonresidential screening levels are applicable to the on-site worker, whereas residential screening levels are applicable to the off-site resident. In this evaluation, the residential screening levels are used in comparison with estimated exposure point concentrations to be protective of both on-site workers and off-site residents. Specifically, for California, residential screening levels for soil (1.7 mg/kg) and air ($1.4 \times 10^{-3} \mu\text{g}/\text{m}^3$) are used instead of commercial/industrial screening levels of 7.5 mg/kg and $6.8 \times 10^{-3} \mu\text{g}/\text{m}^3$, respectively. For Germany, a residential screening level for soil (2 mg/kg) is used instead of a commercial/industrial screening level of 60 mg/kg.

The fate and transport methodology used to estimate migration of Cd from the emission point (broken module) to the exposure point (soil, air, or groundwater) is summarized in Figure 1 and described with Equations 1 to 5 below. The concentration of Cd in leachate resulting from rainwater that falls upon and runs off broken modules is estimated based on a worst-case mass balance approach, where all the mass of Cd in each broken module is assumed to be transferred from the module into the volume of rainfall that falls upon the module during the exposure period. The subsequent concentration of Cd in rainwater runoff from the overall module array is calculated using a weighted average between impacted runoff from broken modules and nonimpacted runoff from unbroken modules. It should be noted that the assumption of total release of Cd from a

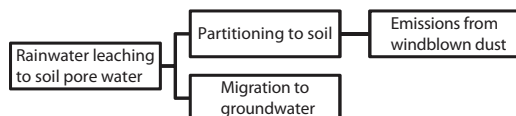


Fig. 1. Fate and transport schematic of migration from emission point (rainwater leaching from broken module) to exposure point in soil, air, and groundwater.

broken module was adopted for the purpose of conducting screening level risk assessment, but is unlikely in the light of low experimentally measured emissions from broken or burnt modules [4].

It is assumed that the rooftop runoff is conveyed via downspouts and discharged onto the ground surface over an area of 1 m^2 per downspout. Chemical concentrations in vadose (unsaturated) zone soil pore water at these discharge locations are assumed to be equal to the concentrations in the rooftop runoff discharge. The vadose zone soil pore water throughout the rest of the site is assumed to be nonimpacted. For the commercial building scenario, a roof with dimensions of $50 \times 50 \text{ m}$ is assumed to be completely covered by CdTe PV modules of dimensions $0.6 \times 1.2 \text{ m}$ each. Twenty-five downspouts are assumed for the building, based on the roof area being 25 times larger than a standard residential building ($10 \times 10 \text{ m}$) [9], where the latter would have one downspout.

The vadose zone soil pore water concentration in each 1 m^2 downspout ground surface area is estimated with the worst-case mass balance approach in Equation 1, where the numerator represents the total annual release of Cd and the denominator represents the total annual column of rainfall.

$$CV = \frac{N \times M \times CF \times B}{P \times A} \quad (1)$$

where CV is the Cd concentration in vadose soil pore water (mg/L); N is the number of modules (unitless); M is the mass of Cd per module (g); CF is the conversion factor (mg/g); B is the module breakage rate (year^{-1}); P is the annual average precipitation ($\text{L}/\text{m}^2\text{-year}$), which is annual precipitation (m/year) falling over 1 m^2 converted to units of L from m^3 ; and A is the area of roof-top array (m^2).

The potential transport of Cd to soil is evaluated in accordance with the equilibrium-partitioning approach described in the U.S. Environmental Protection Agency (U.S. EPA) soil screening guidance [10,11]. It is assumed that the surface soil where rainwater runoff is discharged is instantaneously impacted with Cd, at the concentration predicted by equilibrium partitioning between the water and soil matrices, as expressed by the soil/soil-water partitioning coefficient (K_d) value for Cd (Eqn. 2).

$$CS_{\text{eq}} = CV \times \left(K_d + \frac{\theta_w}{\rho_b} \right) \quad (2)$$

where CS_{eq} is the equilibrium concentration of Cd in impacted soil (mg/kg); CV is the concentration of Cd in vadose zone soil pore water (mg/L); K_d is the soil/soil-water partitioning coefficient (L/kg); θ_w is the soil water-filled porosity (unitless); and ρ_b is the soil dry bulk density (kg/L).

For this scenario, it is assumed that the entire area of the site evaluated here is uncovered by concrete or asphalt and is open bare soil to allow the runoff water to penetrate into site soils. In actuality, commercial sites are often completely covered by concrete or asphalt. On-site commercial/industrial workers are assumed on average to be exposed to site soils across the entire portion of the site that is not occupied by the building. Exposure point concentrations of chemicals in soil are therefore calculated as site-wide average concentrations, incorporating areas of impacted soils (at the worst-case concentrations predicted by equilibrium partitioning) and nonimpacted soils (Eqn. 3). The exposure area (SA-A; Fig. 2) is assumed to be the same as that for a residential building [9], even though a commercial building property would likely be larger, therefore with larger

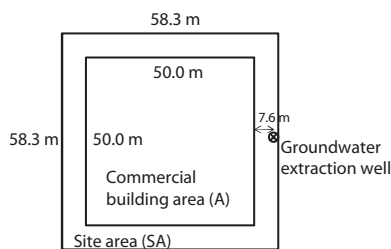


Fig. 2. Site schematic.

nonimpacted areas. This assumption accounts for the potential of at least part of the site to be covered.

$$CS = CS_{eq} \times \frac{IA}{(SA - A)} \quad (3)$$

where CS is the exposure point concentration of Cd in soil (mg/kg); CS_{eq} is the equilibrium concentration of Cd in impacted soil (mg/kg); IA is the impacted area (m^2); SA is the site area (m^2); and A is the area of building (m^2).

The potential transport of Cd from impacted soil to ambient air is estimated (Eqn. 4) using the U.S. EPA-recommended default windblown dust emissions flux for wind erosion ($1.38 \times 10^{-7} \text{ g/s-m}^2$) [11]. As noted above, the uncovered portion of the site is assumed to be bare earth for the purpose of this analysis, whereas commercial sites are frequently landscaped or covered by concrete or asphalt. It is assumed that Cd is present in this windblown dust at the soil concentration predicted by equilibrium partitioning (Eqn. 2). The U.S. EPA screening Gaussian plume dispersion model SCREEN3 [12] is used in conjunction with the emissions flux to estimate worst-case concentrations of dust and thus Cd in ambient air. The maximum hourly dust concentration from SCREEN3 was adjusted with a persistence factor of 0.08 [13] to derive the annual worst-case concentrations of dust.

$$CA = CS_{eq} \times CD \times CF_1 \times CF_2 \quad (4)$$

where CA is the exposure point concentration of Cd in air ($\mu\text{g/m}^3$); CS_{eq} is the equilibrium Cd concentration in soil (mg/kg); CD is the worst case dust concentration in air (mg/m^3); CF_1 is the conversion factor (kg/mg); and CF_2 is the conversion factor ($\mu\text{g/mg}$).

The potential transport of Cd to groundwater is evaluated in accordance with the dilution-attenuation factor (DAF) approach described in the U.S. EPA soil screening guidance [10,11]. It is assumed that vadose zone soil water, from the ground surface to the groundwater table, contains Cd at the module array-runoff concentration discussed above in Equation 1 (i.e., it is assumed the soil column does not adsorb any Cd). The potential concentration of Cd in groundwater at the hypothetical point of usage, which is assumed by the model to be a groundwater extraction well located 25 ft from the edge of the impacted area, is calculated by applying an upper bound (95th percentile) DAF [14] to the vadose soil water concentration (Eqn. 5). Note that for DAF values, higher percentiles represent numerically lower values, indicating less dilution-attenuation, and therefore higher groundwater concentrations.

$$CW = \frac{CV}{DAF} \times CF \quad (5)$$

where CW is the exposure point concentration of Cd in groundwater ($\mu\text{g/L}$); CV is the concentration of Cd in vadose

zone soil pore water (mg/L); DAF is the dilution-attenuation factor (unitless); and CF is the conversion factor ($\mu\text{g/mg}$).

The specific fate and transport modeling parameters used in Equations 1 to 5 are summarized in Table 1. The parameters are the same for the two geographies evaluated, with the exception of higher average annual precipitation (37.32 inches/year; http://www2.lubw.baden-wuerttemberg.de/public/abt5/klimaatlas_bw/klima/aenderungen/ba-wue/niederschlag/index.html) for Baden-Württemberg, relative to California (21.44 inches/year; <http://www.nationalatlas.gov/printable/precipitation.html>). In addition, the German dry soil bulk density (1.4 kg/L; average between settlement and grassland areas [15]) is slightly lower than that used for California (1.5 kg/L [11]).

It should also be noted that the German Federal Environment Ministry does not provide a default value for the soil/soil-water partitioning coefficient data (K_d) for cadmium, due to low mobility in groundwater [16]. In this evaluation, the K_d value used for the California exposure scenario is applied to the southern Germany exposure scenario.

RESULTS

Exposure point concentrations of Cd in soil, air, and groundwater derived in Equations 3 to 5, respectively, are summarized in Table 2, and compared to human health screening levels for each of these media. For the California case, the screening levels in soil, air, and groundwater are from the California Human Health Screening Levels, U.S. EPA Region 9 Regional Screening Levels, and U.S. National Primary Drinking Water Regulations, respectively. Residential soil and indoor air screening values are used, both of which are more protective than the commercial building soil and outdoor air exposure scenarios considered here.

In the southern Germany case, the soil screening level is from the residential trigger value in Annex 2 of the Federal Soil Protection and Contaminated Sites Ordinance (<http://www.umweltbundesamt.de/boden-und-altlasten/altlast/web1/berichte/pdf/bbodschev-engl.pdf>). The standard residential trigger value in soil is 20 mg/kg, whereas for the special case of gardens in which children stay and food plants are grown, a residential trigger value of 2 mg/kg applies. Table 2 presents the latter more protective soil screening value, which is similar to the California Human Health Screening Levels value used for California. The German air screening level is based on World Health Organization air quality guidelines for Europe [17] and is slightly higher in magnitude than the California air screening level. The groundwater screening level is from the German regulation on drinking water (<http://www.umweltbundesamt.de/wasser-e/themen/trinkwasser/gesetze.htm>) and is the same as the U.S. drinking water standard.

In the California and southern Germany cases, exposure point concentrations in soil, air, and groundwater are one to six orders of magnitude below human health screening levels, indicating that it is highly unlikely that exposures to these media would pose potential health risks to on-site workers or off-site residents. In particular, air concentrations are below screening levels by five to six orders of magnitude, indicating exposure to ambient air is a de minimis exposure pathway.

For reference, the average background Cd concentration in California surface soils is 0.36 mg/kg [18], whereas average background surface soil Cd concentrations in Baden-Württemberg range from 0.2 to 0.3 mg/kg [19]. Therefore, modeled impacts to soil are over an order of magnitude below both human health screening levels and regional background levels.

Table 1. Fate and transport modeling parameters used in conjunction with Equations 1 to 5 for California (CA) and Baden-Württemberg (B-W) exposure scenarios^a

Equation 1 parameters ^b	Equation 2 parameters ^c	Equation 3 parameters ^d	Equation 4 parameters ^e	Equation 5 parameters ^f
N: 3472	CV (CA/B-W): 0.00612/0.00352 mg/L	CS _{eq} (CA/B-W): 0.460/0.265 mg/kg	CS _{eq} (CA/B-W): 0.460/0.265 mg/kg	CV (CA/B-W): 0.00612/0.00352 mg/L
M: 6 g/module	K _d : 75 L/kg	IA: 25 m ²	CD: 5.5 × 10 ⁻⁶	DAF: 7.82
CF: 1000 mg/g	θ _w : 0.3	SA: 3400 m ²	CF ₁ : 0.000001 kg/mg	CF: 1000 μg/mg
B: 0.04% year ⁻¹	ρ _b (CA/B-W): 1.5/1.4 kg/L	A: 2500 m ²	CF ₂ : 1000 μg/mg	
P (CA/B-W) ^g : 545/947 L/m ² -year				
A: 2500 m ²				

^a When two values are provided for a given parameter, first value is for CA and second value is for B-W.

^b Parameters in Equation 1 are N (number of modules), M (mass of Cd per module), CF (conversion factor), B (module breakage rate), P (annual average precipitation), and A (area of building).

^c Parameters in Equation 2 are CV (concentration of Cd in vadose zone soil pore water), K_d (soil/soil-water partitioning coefficient), θ_w (soil water-filled porosity), and ρ_b (soil dry bulk density).

^d Parameters in Equation 3 are CS_{eq} (equilibrium concentration of Cd in impacted soil), IA (impacted area), SA (site area), and A (area of building).

^e Parameters in Equation 4 are CS_{eq} (equilibrium Cd concentration in soil), CD (worst case dust concentration in air), CF₁ (conversion factor), and CF₂ (conversion factor).

^f Parameters in Equation 5 are CV (concentration of Cd in vadose zone soil pore water), DAF (dilution-attenuation factor), and CF (conversion factor).

^g Precipitation parameter (P) is based on annual average precipitation of 21.44 and 37.32 inches for California and Baden-Württemberg respectively.

For further perspective on soil impacts, Cd is commonly found in agricultural fertilizers. California is among the top users of agricultural fertilizer in the United States and analysis of metals in fertilizer samples has been performed by the California Department of Food and Agriculture, with median Cd concentrations of 89 mg/kg in phosphate fertilizer and 37 mg/kg in nitrogen/phosphorus/potassium (NPK) fertilizer [20]. Similarly, average Cd concentrations in phosphate and NPK fertilizer in Germany are 60 and 18 mg/kg, respectively (http://www.bfr.bund.de/cm/343/cadmiumaustag_ueber_duengemittel.pdf). These values are over three orders of magnitude higher than the estimated exposure point concentration in soil in California and southern Germany (Table 2).

For reference, average background Cd (total suspended particulate) concentrations in California ambient air monitoring stations ranged from 0.0008 to 0.001 μg/m³ in 2008 (<http://www.epa.gov/air/data/geosel.html>). Similarly, average background Cd concentrations in Europe range from 0.0001 to 0.0004 μg/m³ in rural areas and 0.0002 to 0.0025 μg/m³ in urban areas [21]. Therefore, modeled impacts to air are five orders of magnitude below both health screening levels and background levels.

For reference, the average background Cd concentration in groundwater from 1984 to 2004 in California Air Force bases ranged from <0.004 mg/L (50th percentile) to 0.006 mg/L (95th percentile; http://www.dtsc.ca.gov/assessingrisk/upload/metals_handout.pdf). In Baden-Württemberg, average background Cd concentrations in groundwater range from 0.00052 to 0.0039 mg/L [22]. Therefore, modeled impacts to

groundwater in California and southern Germany are below both human health screening levels and background levels.

In addition to soil, air, and groundwater, another route of potential concern is direct discharge of rooftop runoff to stormwater catch basins. In combined sewer systems, stormwater and wastewater are collected together and treated at a publicly owned treatment works (POTW). The worst-case rooftop runoff Cd concentration (assuming total release of Cd from broken modules) is equivalent to the estimated Cd concentration in vadose soil pore water (CV; 0.004–0.006 mg/L; Table 1). Because this concentration is approximately consistent with drinking water standards, impacts to POTW's from rooftop runoff are expected to be minimal.

DISCUSSION

The fate and transport analysis conducted here represents a worst-case scenario of total Cd release from broken modules. An implicit assumption for this scenario is that a broken module would remain undetected and in the field over the exposure duration. This is a screening level assumption that would likely not occur given routine inspections of modules or power output monitoring. For example, the latter may include diagnostic comparison of actual to expected performance or comparison of co-located arrays to identify low performance areas and modules that are nonfunctioning potentially due to breakage.

Another implicit assumption is that emissions of CdTe from rainwater leaching of broken modules can be modeled as emissions of Cd, a "read-across" approach. This is a screening

Table 2. Estimated exposure point concentration (EPC) and corresponding human health screening level in soil, air, and groundwater.

	Soil EPC (mg/kg)	Soil screening level (mg/kg)	Air EPC (μg/m ³)	Air screening level (μg/m ³)	Ground-water EPC (mg/L)	Ground-water screening level (mg/L)
California ^a	1.28 × 10 ⁻²	1.7	2.53 × 10 ⁻⁹	1.4 × 10 ⁻³	7.83 × 10 ⁻⁴	5 × 10 ⁻³
Baden-Württemberg ^b	7.35 × 10 ⁻³	2	1.46 × 10 ⁻⁹	5 × 10 ⁻³	4.50 × 10 ⁻⁴	5 × 10 ⁻³

^a California screening levels are from the California Human Health Screening Levels (<http://www.calepa.ca.gov/brownfields/documents/2005/CHHSLGuide.pdf>) for soil, USEPA Region 9 (<http://www.epa.gov/region9/superfund/prg/>) for air, and U.S. National Primary Drinking Water Regulations (<http://water.epa.gov/drink/contaminants/index.cfm>) for groundwater.

^b German screening levels are from Annex 2 of the Federal Soil Protection and Contaminated Sites Ordinance (<http://www.umweltbundesamt.de/boden-und-altlasten/altlast/web1/berichte/pdf/bbodschev-engl.pdf>) for soil, World Health Organization air quality guidelines for Europe [17] for air, and German regulation on drinking water (<http://www.umweltbundesamt.de/wasser-e/themen/trinkwasser/gesetze.htm>) for groundwater.

level assumption because CdTe is relatively insoluble [3,23]. For example, transformation and dissolution testing is designed to determine the rate and extent to which sparingly soluble metal compounds can produce soluble available ionic species in aqueous media under a set of standard laboratory conditions representative of those generally occurring in the environment. Based on long-term transformation and dissolution testing of CdTe, a 1 mg/L loading showed a concentration of 15 μg of Cd per L after 28 d, indicating approximately 1.5% solubility [24]. This is also consistent with the very low solubility product ($K_{\text{sp}} = 9.5 \times 10^{-35}$) for CdTe [25]. In addition to low solubility, CdTe can be contrasted with elemental Cd and other Cd compounds based on limited bioavailability and low acute toxicity, which result in an overall margin of safety of two orders of magnitude likely inherent to CdTe screening assessments developed using the read-across approach from Cd [25].

Because of the low solubility of CdTe, aggressive extraction methods are required to leach CdTe from a module. Such methods are used, for example, in the recycling process for CdTe modules. They involve crushing the module into mm-scale pieces and agitating it in an acidic solution [7]. These extraction methods in no way mimic actual broken or cracked module exposure to rainwater. Therefore, the assumption of total Cd release from broken modules is highly unlikely.

In addition to this worst-case assumption, other upper bound assumptions are used in the analysis. Migration from vadose zone soil pore water to soil is modeled with equilibrium partitioning, which represents the theoretical maximum concentration possible in the solid phase, for a given concentration in soil pore water. Subsequent migration from soil to air is modeled using the SCREEN3 U.S. EPA Gaussian plume dispersion model to estimate worst-case concentrations of windblown dust.

The approach used to estimate groundwater impacts is also upperbound because it does not account for the loss of chemical mass from the pore water during soil-water partitioning, instead assuming that the pore water is instantaneously in equilibrium with the solid soil phase. Accordingly, no mass in pore water is lost to the solid soil phase during partitioning, when in actuality some of this mass partitions into the solid soil phase, with a subsequent reduction in the concentration of Cd in the pore water with depth, until equilibrium is reached. Accounting for the loss of chemical mass from the pore water to the solid phase would lower chemical concentrations in soil water that are assumed to penetrate to groundwater and so reduce predicted groundwater exposures. In addition, the DAF assumes that there is an infinite source of mass available for release. Conserving mass would likely reduce the average long-term groundwater concentration estimated using the DAF approach and so result in lower groundwater exposures. Moreover, the dilution-attenuation factor used was a 95th percentile DAF where the higher percentiles represent numerically lower DAF values, indicating less dilution-attenuation and therefore higher groundwater concentrations. All of these factors contribute to the likelihood that impacts to groundwater are overestimated. Also as described earlier, under German groundwater assessment methodology, a default soil/soil-water partitioning coefficient data (K_d) is not provided, due to low mobility of Cd in groundwater [16] implying that using the DAF approach will result in an overestimate of groundwater concentration.

The soil/soil-water partitioning coefficient used in Equation 2 is pH-dependent. In the absence of site-specific soil pH, the default recommended soil pH of 6.8 was used in this analysis, corresponding to a Cd soil/soil-water partitioning coefficient of

75 L/kg. The latter coefficient ranges from 17 L/kg at soil pH of 5 to 4,300 L/kg at soil pH of 8 [11]. The equilibrium concentration of Cd in impacted soil is proportional to the soil/soil-water partitioning coefficient (Eqn. 2). Therefore, under acidic soils, the exposure point concentration in soil may be up to a factor of 4.4 lower than the concentration estimated in Table 2. For alkaline soils, the exposure point concentration in soil may be up to a factor of 57 higher than the concentration estimated in Table 2. However, because the soil exposure point concentrations in Table 2 are over two orders of magnitude below screening levels, potential health risks from exposure to soil are highly unlikely under varying soil pH.

The number of building downspouts (25) is based on the commercial building roof area being 25 times larger than a standard residential building with one downspout. The number of downspouts affects the impacted soil area (parameter IA in Eqn. 3), with each downspout discharging onto 1 m^2 of ground surface area. With additional downspouts, the soil exposure point concentration estimated with Equation 3 would increase proportionally. However, because the soil exposure point concentrations in Table 2 are over two orders of magnitude below screening levels, potential health risks from exposure to soil are highly unlikely under variations in the number of building downspouts.

Another screening level assumption is the module breakage rate. Product return statistics have been obtained in the 2011 fourth quarter from First Solar's warranty manager evaluating global warranty trends (J. Sokol, First Solar, Perrysburg, Ohio, USA, personal communication), including five years of actual performance data with extrapolations to later years of product life, based on an observed decline in breakage rate after the installation and initial operating period. Module breakage is rare, occurring in approximately 1% of modules over the 25-year warranty operating life, including the shipping and installation period. Of these breakages, over one-third occurs during shipping and installation and are removed for takeback and recycling. In addition, a proportion of broken modules have only chipped glass that does not affect the CdTe semiconductor layer. These two considerations considerably reduce the relevant breakage rate for modules that may be subject to leaching by rainfall. Nevertheless in this analysis, a conservative breakage rate of 1% over a 25-year life (0.04%/year) is applied.

The screening level approach used in this evaluation considers each exposure medium (soil, air, groundwater) separately. If an exposure point concentration for a chemical exceeds a screening level, the chemical is of potential concern to human health and requires further risk assessment. Conversely, if a screening level is not exceeded, it is highly unlikely that the chemical may pose a potential health risk in that exposure media. In addition to screening health risks for each exposure medium, cumulative risks across exposure media were considered using the exposure point concentrations in Table 2 in conjunction with U.S. EPA exposure assessment methodology [26,27] and the inhalation unit risk and oral reference dose for Cd (<http://www.epa.gov/iris/subst/0141.htm>). Across the exposure media of soil, air, and groundwater, cumulative risks and hazards are below one in one million and the hazard index of 1, respectively, as expected given that the media-specific exposure point concentrations are orders of magnitude below human health screening levels.

Overall, a worst case leaching scenario with screening level fate and transport modeling yields impacts to soil, air, and groundwater that are one to five orders of magnitude below human health screening levels in a California and southern

Germany exposure scenario. Potential exposures to Cd from rainwater leaching of broken modules in a commercial building scenario are highly unlikely to pose a potential health risk to on-site workers or off-site residents.

Acknowledgement—We wish to thank A. Uhlemann of the Berlin School of Economics and Law for contributing background environmental data regarding Baden-Württemberg, Germany, and J. McLaughlin of Iris Environmental for his insightful review.

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Fate and Transport Evaluation of Potential Leaching and Fire Risks from CdTe PV

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ABSTRACT

Fate and transport analysis has been performed to evaluate potential exposures to cadmium (Cd) from cadmium telluride (CdTe) photovoltaics (PV) for non-routine circumstances (rainwater leaching from broken modules and emissions from fire). The analysis considers Cd transport from ground mount and roof mount systems via leaching, and from roof mount systems via fire and subsequent leaching. Fate and transport of Cd to soil from broken modules is based primarily on leachability, soil/soil-water partitioning coefficient, and annual rainfall. Subsequent migration to ambient air as windblown dust is dependent on both the particulate emission flux and on ambient air dispersion as modeled with a screening Gaussian plume dispersion model. Migration to groundwater is evaluated with a dilution-attenuation factor approach, and is dependent on leachability, infiltration rate, and source size. Fate and transport analysis of emissions from fire considers emissions to ambient air and transport to soil and groundwater from entrainment in water used to extinguish the fire. Fate and transport to air is dependent on the roof mount system size, Cd fire related emission rate, heat release rate, and ambient air dispersion as modeled with a screening Gaussian plume dispersion model. Fate and transport to water is dependent on the same factors that determine leaching to soil and groundwater described above. Using these modeling approaches, the relevant media-specific exposure point concentrations and/or daily intakes are estimated and compared to conservative health screening levels to evaluate potential health impacts to onsite and offsite receptors. It is concluded that potential exposures to Cd from rainwater leaching of broken modules and emissions from a fire are highly unlikely to pose a potential health risk to residents, workers, consumers, or emergency responders.

INTRODUCTION

Some stakeholders have raised concerns about the potential exposure to CdTe from leaching of broken modules and release during fires. Under normal operation, CdTe PV modules do not pose a threat to human health or the environment, as during the manufacturing process, the CdTe semiconductor layer is bound under high temperature to one sheet of glass, coated with an industrial laminate material, and then encapsulated between a second sheet of glass. However, questions may arise with regards to unusual events, namely broken modules subject to leaching by precipitation and modules exposed to fire.

Independent reviews carried out under the authority of the French, German, and Spanish governments [1-3] have concluded that emissions of Cd compounds are negligible under these non-routine circumstances. This analysis further extends these evaluations by using fate and transport modeling to estimate potential exposures to Cd compounds resulting from leaching and fire, and then evaluating the potential health effects associated with these exposures.

Broken modules refer to modules with cracked glass or broken pieces. Breakage results from extreme weather or human factors. While rare, breakage followed by precipitation may potentially result in leaching of CdTe from modules and subsequent exposure to Cd compounds in soil, air, or groundwater.

Modules can be exposed to building or grass fires affecting roof mount or ground mount systems, respectively. Under the high temperatures of a building fire (800 to 1100 deg C), the module glass fuses together with Cd diffusing into glass, limiting release. However, a small amount of Cd (0.04%) may be emitted before the two pieces of glass fuse together [4]. The effect of these emissions are considered for building residents, workers, and emergency responders.

For grass fires, flame residence times in grass fuels are approximately 15 seconds, and maximum temperatures are approximately 800 to 1000°C [5]. The melting point of CdTe is 1041°C, and evaporation begins at 1050°C [4], and the melting point of module glass is several hundred degrees centigrade higher. Therefore, for ground mount systems exposed to grass fires, Cd would remain encapsulated in the modules. Characterization of emissions from fire is an area of active research.

METHODS

Table 1 summarizes exposure scenarios evaluated with respect to rainwater leaching from broken modules and emissions from fire.

Leaching by Rainwater

Exposure pathways

For leaching from ground mount systems, potential receptors include installation/maintenance workers, commercial/industrial workers, and offsite residents. Installation/maintenance workers may be exposed via dermal contact with broken modules, and inhalation of windblown dust from affected soil. Commercial/industrial

workers may be exposed via inhalation of, dermal contact with, and ingestion of Cd leached into soil, as well as exposure to groundwater potentially impacted by leachate. Offsite residents may be exposed to Cd via inhalation of windblown dust from affected soil, and exposure to groundwater potentially impacted by leachate.

For leaching from roof mount systems, potential receptors and exposure pathways are the same as for ground mount systems, except for the addition of onsite building residents, who also may be exposed to Cd via inhalation of, dermal contact with, and ingestion of Cd leached into soil, as well as exposure to groundwater potentially impacted by leachate. Additionally for roof mount systems, an exposure scenario considers a farm, with an array of modules on a building rooftop that uses collected rainwater to raise crops and cattle. The farm worker has the same exposure scenarios as the building resident, and an offsite consumer may be exposed through ingestion of farm beef, dairy products, and produce.

Table 1. Potential exposure scenarios associated with leaching from broken modules and emissions from a fire for CdTe PV

Scenario		Exposure Medium	Receptor
Leaching from Broken Module	Ground mount PV	Air, Module Contact	Installation/ Maintenance Worker
		Air, Groundwater	Offsite Resident
		Air, Soil, Groundwater	Commercial/Industrial worker
	Roof mount PV	Air, Module Contact	Installation/ Maintenance Worker
		Air, Groundwater	Offsite Resident
		Air, Soil, Groundwater	Building Resident, Commercial/Industrial Worker, Onsite Farm Worker
Fire	Roof mount PV	Beef/dairy/produce	Beef/dairy/produce Consumer
		Air	Emergency Responder
		Air, Soil, Groundwater	Building Resident/ Worker
		Air, Groundwater	Offsite Resident

Release mechanism

The concentration of Cd in leachate resulting from rainwater that falls upon and runs off broken modules is estimated based on a worst-case mass balance approach, where all the mass of Cd in each broken module is assumed to be transferred from the module into the volume of rainfall that falls upon the module during the exposure period. This mass balance-derived value is compared to laboratory measurement of the Soluble Threshold Limit Concentration (STLC) [6], which represents an upper end leachable concentration. The

lower of these values is used as an upper bound of the potential leachate concentration. The concentration of Cd in rainwater runoff from the overall module array, which contains mostly unbroken modules, is calculated using a weighted average.

Transport to soil

The potential transport of Cd to soil is evaluated in accordance with the equilibrium-partitioning approach described in the USEPA soil screening guidance [7-8]. It is conservatively assumed that the surface soil where rainwater runoff is discharged is instantaneously impacted with Cd, at the concentration predicted by equilibrium partitioning between the water and soil matrices, as expressed by the soil/soil-water partitioning coefficient (K_d) value for Cd (Eq. 1).

$$CS_{eq} = CV \times \left(K_d + \frac{\theta_w}{\rho_b} \right) \quad (1)$$

where:

- CS_{eq} = equilibrium concentration of Cd in soil (mg/kg);
- CV = concentration of Cd in vadose zone soil pore water (mg/L);
- K_d = soil/soil-water partitioning coefficient (L/kg);
- θ_w = soil water-filled porosity (unitless); and
- ρ_b = soil dry bulk density (g/cm³).

In the ground-mount system scenario, it is assumed that the rainwater that falls upon each module runs off the module onto an area of ground surface equal to the module area (i.e., 0.72 m²). This situation is unlike the roof-mount system where impacted water is discharged to the same ground surface over and over again via gutter downspouts or collection and irrigation systems. In the ground-mount scenario, rather, the discharge of impacted water occurs at various locations over time as individual modules break at those locations. Over time, clean rainfall incident upon impacted soil will provide dilution of the Cd that was previously discharged to vadose pore water and soil from broken modules at those locations.

Transport to air

The potential transport of Cd from impacted soil to ambient air is estimated by: 1) assuming the USEPA-recommended default windblown dust emissions flux; 2) assuming that Cd is present in this windblown dust at the soil concentration predicted by equilibrium partitioning (described in previous paragraph); and 3) using the USEPA Gaussian plume dispersion model SCREEN3 [9] to estimate worst-case concentrations of dust, and thus Cd, in ambient air.

Transport to groundwater

The potential transport of Cd to groundwater is evaluated in accordance with the dilution-attenuation factor (DAF) approach described in the USEPA soil screening guidance [7-8]. It is conservatively assumed that vadose (unsaturated) zone soil water, from the ground surface to the groundwater table, contains Cd at the module array-runoff concentration discussed above (i.e., it is assumed the soil column does not adsorb any Cd). An appropriate DAF is selected from the USEPA guidance, based on the source area. The potential concentration of Cd in groundwater at the hypothetical point of usage, which is assumed to be a groundwater extraction well located 25 feet from the edge of the source area, is calculated by applying the DAF to the vadose soil water concentration.

Plant and animal uptake

Product-related Cd present in rainwater runoff that is collected and used to irrigate crops and to feed cattle may potentially be transferred to plant and animal products and ultimately consumed by human populations. Potential plant and animal uptake of product-related Cd is modeled in accordance with Cal/EPA Hot Spots risk assessment guidance [9].

The concentration of Cd in vegetation grown onsite is estimated with a chemical-specific uptake factor that is a function of the vegetation type (exposed, protected, root, or leafy). Cd concentrations in beef and dairy products are a function of intake via dust inhalation, water ingestion, pasture ingestion, feed ingestion, and soil ingestion. The combined intake is subject to a chemical-specific transfer coefficient for the given animal product (i.e., beef or dairy).

Exposure assessment

Daily Cd intakes for potential receptors are calculated in accordance with standard USEPA and Cal/EPA exposure assessment methodology [9-13], using standard default Cal/EPA Office of Hazard Health Assessment (OEHA) and Department of Toxic Substances Control (DTSC) exposure assumptions, and based on the exposure point concentrations developed through fate and transport modeling. Because it is not possible for both soil and groundwater to experience worst-case impacts, as quantified in this evaluation, soil- and groundwater-based intakes for the same receptor population are not summed, but rather are evaluated against health criteria separately.

Fire

Exposure pathways

For building fires affecting roof mount systems, potential receptors include building occupants (either residents or workers), offsite residents, and emergency responders

(e.g., firefighters; see Table 1). Receptors may be exposed to Cd by direct inhalation of particulate matter associated with the smoke plume. In addition, building occupants and offsite residents may be exposed to Cd by contact with affected soil and groundwater (used as tap water).

Release mechanism

The release efficiency of Cd from modules in a fire (0.04%) is based on experimental studies in which samples of module were subjected to simulated fire events [2]. The total mass of Cd released from a module array during a fire is estimated from the number of modules in the array (i.e., the total mass of Cd available) and the experimentally measured release efficiency. All of the Cd released during the fire is conservatively assumed to be emitted over a period of time equal to the assumed exposure duration, which varies from 10 minutes to 8 hours based on the threshold exposure limit of comparison.

Transport to ambient air

The concentrations of Cd in ambient air, resulting from release from modules during a building fire, are estimated using the SCREEN3 Gaussian plume dispersion model [14]. Overall, the modeling approach is designed to quantify worst-case potential impacts at any receptor location downwind from the edge of the burning building and at any receptor height above ground surface, across a range of potential fire scenarios. All relevant regulatory model options (e.g., building downwash and fumigation) are employed (Table 2). USEPA-published persistence factors are applied to the worst-case 1-hour modeled concentration, to estimate worst-case concentrations over time periods of interest from an exposure perspective, ranging from 10 minutes to 8 hours.

Table 2. SCREEN3 Dispersion Model Input Parameters

Input Parameters	Unit	Small Building Fire	Medium Building Fire	Large Building Fire
Source Type	-	F (flare)	F (flare)	F (flare)
Flare stack height	m	5	5	5
Total heat release rate	cal/s	1.20E+06	2.99E+07	1.20E+08
Receptor height above ground	m	55	165	180
Urban/rural option	-	R (rural)	R (rural)	R (rural)
Consider building downwash?	-	Y (yes)	Y (yes)	Y (yes)
- Building height	m	4	4	4
- Minimum horizontal building dimension	m	10	50	100
- Maximum horizontal building dimension	m	10	50	100
Choice of meteorology	-	1 (full)	1 (full)	1 (full)
Automated distance array?	-	Y (yes)	Y (yes)	Y (yes)
- Minimum distance	m	5	25	50
- Maximum distance	m	1000	1000	1000
Fumigation calculation?	-	NA	Y (yes)	Y (yes)
Consider shoreline fumigation?	-	NA	Y (yes)	Y (yes)
- Distance to shoreline	m	NA	7.60E+02	1.98E+03

Transport to soil and groundwater

During a fire, particulates containing Cd may settle-out from the smoke plume and deposit to the ground surface, potentially resulting in Cd impacts to soil and ultimately to groundwater. Runoff of water used to extinguish the fire may also result in Cd impacts to soil and groundwater, if the Cd released from the modules were to be entrained in the fire water and discharged to the ground surface, instead of being entrained in the smoke plume and transported downwind. The wet deposition scenario (Eq. 2) is quantitatively evaluated here, as this scenario is protective of the dry deposition scenario. The evaluation of potential transport to soil and groundwater, in the context of wet deposition via firewater, is based on the same methodologies and assumptions made in the transport evaluation conducted for the leaching via rainwater scenario, discussed above.

$$C_w = \frac{M_{Cd}}{V_F + V_P} \quad (2)$$

where:

- C_w = annual-average concentration of Cd in vadose soil pore water (mg/L);
- M_{Cd} = mass of Cd released from modules in fire (mg);
- V_F = volume of water used to extinguish fire (L); and
- V_P = volume of annual precipitation that falls upon site (L).

RESULTS AND DISCUSSION

Rainwater leaching risks

Risks to workers, residents, and consumers with respect to rainwater leaching from broken modules are evaluated by comparing estimated daily intake ($\mu\text{g}/\text{day}$) to conservative screening levels with respect to inhalation cancer risk (10^{-5} threshold) and reproductive/developmental toxicity from oral exposure [15]. Note that because the dermal exposure pathway is either incomplete, lacking a screening level, or insignificant compared to the ingestion pathway, it is not discussed further.

Figure 1 summarizes health risks from rainwater leaching from broken modules. For each scenario, media-specific daily intakes are below screening levels. For inhalation exposures, estimated daily intakes are largely greater than 2 orders of magnitude below screening levels. For oral exposures, estimated daily intakes are largely greater than 1 order of magnitude below screening levels.

For the commercial office building and solar farm scenarios, estimated daily intake from oral exposure to groundwater is within an order of magnitude but below screening levels. Soil and groundwater impacts are based on the assumption of equilibrium partitioning between vadose zone soil water and soil. The equilibrium concentration represents the theoretical maximum concentration possible in the solid phase, for a given concentration in soil pore water.

This assumption is highly conservative because it does not account for the loss of chemical mass from the pore water, but instead assumes that the pore water constitutes an infinite source of chemical available for partitioning to the solid soil phase. In actuality, there is only a finite mass of chemical available (i.e., the mass that is released from broken modules), and as some of this mass partitions into the solid soil phase, the concentration in the pore water would decrease. Accounting for the loss of chemical mass from the pore water to the solid phase would lower chemical concentrations in soil water that are assumed to penetrate to groundwater and so reduce predicted groundwater exposures. Accordingly, impacts to groundwater are likely overestimated.

In addition for the solar farm scenario, estimated daily intake from oral exposure of groundwater is conservative based on assuming that the groundwater extraction well is located 25 feet away from the edge of the source. In this scenario, the potential sources of groundwater impact are the individual broken modules scattered across a 6,000-acre site. Therefore, the actual distance from impacted vadose zone soil water to the offsite groundwater extraction well would be much greater than assumed here for all broken modules except those adjacent to the site boundary.

Furthermore, it is assumed that the Cd released from every broken module at the site is transported to the same offsite groundwater extraction well. In reality, it is highly likely that only a fraction of the site would be within the capture zone of the offsite extraction well.

Another primary source of uncertainty in this evaluation is the estimation of Cd concentrations in module rainwater leachate, which is conservatively bounded by the results of laboratory STLC testing. These extraction tests were conducted on homogenized samples of finely crushed module, agitated over a 48-hour period in an acidic solution. This testing in no way mimics actual broken or cracked module exposure to rainwater because the STLC extraction provides a much longer contact time and larger surface area for contact (because the module is crushed first) than the module would experience during use.

Fire risks

Inhalation risks to workers, residents, and emergency responders with respect to fire are evaluated by comparing exposure point concentrations from the fate

Figure 1. Comparison of Estimated Daily Intake to Screening Values for Rainwater Leaching Scenarios

	Inhalation Exposures ^a	Oral Exposures ^b
INSTALLATION AND MAINTENANCE SCENARIO		
Installation and Maintenance Workers	●	-
RESIDENTIAL BUILDING SCENARIO		
Onsite Residents – Soil Exposures	●	●
Onsite Residents – Groundwater Exposures	●	●
COMMERCIAL OFFICE BUILDING SCENARIO		
Onsite Commercial/Industrial Workers	●	●
Offsite Residents – Soil Exposures	●	-
Offsite Residents – Groundwater Exposures	●	○
BEEF/DAIRY/PRODUCE FARM SCENARIO		
Onsite Farm Workers	●	●
Offsite Residents – Soil Exposures	●	-
Offsite Residents – Groundwater Exposures	●	●
Beef/Dairy/Produce Consumers	-	●
SOLAR FARM SCENARIO		
Onsite Commercial/Industrial Workers	●	●
Offsite Residents – Soil Exposures	●	-
Offsite Residents – Groundwater Exposures	●	○

Notes:

- a - From dust or aerosol tap water (showering) inhalation .
- b - From soil, drinking water, or beef/dairy/produce ingestion.
- Ratio of Daily Cd Intake to Screening Value: <0.01
- Ratio of Daily Cd Intake to Screening Value: 0.01 - <0.1
- Ratio of Daily Cd Intake to Screening Value: 0.1 - <1

and transport analysis against acute exposure guidelines (AEGLs) [16]. The AEGLs represent threshold exposure limits for the general public and are applicable to emergency exposure periods ranging from 10 minutes to 8 hours.

For exposure to affected soil and groundwater in the fire scenario, risk-based screening levels of Cd in soil are based on potential exposures via soil ingestion, soil dermal contact, and dust inhalation. Risk-based screening levels of Cd in groundwater are based on potential exposures via drinking water ingestion, dermal contact with tap water while showering, and inhalation of tap water aerosols while showering.

Table 3 summarizes health risks from fire emissions. For each scenario, all estimated exposure concentrations are below conservative screening values, generally by one to two orders of magnitude. Exposure point concentrations are slightly higher for smaller building sizes than larger, due to lower heat release rate which produces less atmospheric dispersion than for large buildings.

Incremental cancer risks associated with short-term exposure to Cd were also evaluated in accordance with USEPA inhalation risk assessment methodology [13]. Estimated cancer risks were over an order of magnitude below the 1 in 1 million level considered by USEPA to be an insignificant risk.

For fire risk, a source of uncertainty is the use of the SCREEN3 Gaussian plume dispersion model for fire emissions. USEPA guidance notes that modeling a fire as a flare point source is conservative, as this assumption neglects the initial dilution provided by air which is drawn

Table 3. Comparison of Cd Exposure Point Concentrations to Health Screening Values for Fire Exposure Scenario

	Small building		Medium building		Large building	
	Exposure Point Concentration	Screening value ^{a,b}	Exposure Point Concentration	Screening value ^{a,b}	Exposure Point Concentration	Screening value ^{a,b}
Ambient Air Evaluation (g/m3)						
10 minute Averaging Period	26	130	25	130	23	130
30 minute Averaging Period	6.0	130	5.9	130	5.4	130
60 minute Averaging Period	3.0	100	2.9	100	2.7	100
240 minute Averaging Period	0.67	63	0.66	63	0.61	63
480 minute Averaging Period	0.26	41	0.26	41	0.24	41
Soil Evaluation (mg/kg)	0.42	39	2.80	505	3.40	505
Groundwater Evaluation^c (mg/L)	0.00002	0.0078	0.0004	0.0078	0.0011	0.0078

Notes:

- (a) For ambient air evaluation, screening value is AEGL-1, the airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic, non-sensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure. There are three AEGL levels (AEGL-1, AEGL-2, and AEGL-3) distinguished by varying levels of toxic effects, with AEGL-1 levels as most stringent.
- (b) For soil and groundwater evaluations, screening values are risk based screening levels (RBSLs) corresponding to cancer risk of 10⁻⁶ or hazard quotient of 1.
- (c) For reference, California and U.S. Federal Maximum Concentration Limit (MCL) for Cd in water is 0.005 mg/L.

in over an area wide fire source. However, SCREEN3 is not specifically designed to simulate fires and so uses relatively simple correlations to describe the smoke plume.

To evaluate uncertainty, a large outdoor fire plume trajectory model - flat terrain (ALOFT FT) model [17] was run with inputs from the worst-case SCREEN3 modeling run (i.e., small building scenario). Overall, the SCREEN3 maximum concentration was higher than the ALOFT-FT maximum concentration. Therefore, these results further confirm that use of SCREEN3 to evaluate impacts associated with releases from fires is conservative.

SUMMARY AND CONCLUSIONS

Under normal operation, CdTe PV modules do not pose a threat to human health or the environment, because the CdTe semiconductor layer is encapsulated within the module. However, questions may arise with regards to broken modules subject to leaching by precipitation and modules exposed to fire. Conservative fate and transport analysis shows that potential exposures to Cd from rainwater leaching of broken modules or emissions during a building fire are highly unlikely to pose a potential health risk to residents, workers, consumers, or emergency responders. For modeled fire scenarios, exposure point concentrations are generally one to two orders of magnitude below conservative screening values, and estimated cancer risks are over an order of magnitude below the 1 in 1 million level. For each rainwater leaching scenario modeled, estimated health risks are below conservative screening values.

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B2. AQ-GHG Memorandum

MEMORANDUM

To: Simon Day, Vice President and Head of Solar Development
From: Dudek
Subject: Edwards Air Force Base Solar Facility Air Quality and Greenhouse Gas Emissions Methodology and Emissions Calculations
Date: February 2, 2018
Attachment A: CalEEMod Outputs
Attachment B: AERMOD Outputs and AAQA

Dudek is pleased to submit this air quality and greenhouse gas (GHG) construction and operational emissions modeling and methodology memorandum to assist the Air Force with environmental planning requirements for the proposed solar facility to be located on the northwest corner of the Edwards Air Force Base (AFB), approximately 57 miles southeast of the City of Bakersfield.

This memorandum estimates criteria air pollutant and GHGs from construction and operation of the proposed project. The contents and organization of this memorandum are as follows: project description; general analysis and methodology; construction and operational assumptions; emissions calculations; and references cited.

1 PROJECT DESCRIPTION

The Air Force proposes to lease land to a developer for the construction, operation and maintenance of the Edwards Air Force Base Solar Photovoltaic Enhanced Use Lease Project (project). The project would be an up to 4,000-acre solar facility, which is anticipated to generate more than 100 megawatts (MW). The project would also include the construction, operation and maintenance of a 230-kilovolt (kV) generation tie (gen-tie) line from the proposed solar facility to a point of interconnection where power generated by the project can be delivered to the grid. Points of interconnection include the Southern California Edison (SCE) Windhub Substation and/or privately owned Westwind Substation. The gen-tie line would allow electricity generated from the project to reach high-voltage transmission lines, through a substation, that would be able to carry power to utility customers. The proposed 230 kV gen-tie line would run across publicly and privately owned property within Kern County. In general, the gen-tie route can be broken down in to two categories based on the direction of the corridor—a north–south connection and an east–west connection. There are three options for the north–south gen-tie connection and the proposed project would include only one of these three north-south route options. There are two options for

the east–west gen-tie connection and the proposed project would include only one of these two east–west route options. The final gen-tie route will be determined by the ability to acquire access easements for construction and installation of the line from public and private entities. Because all the possible gen-tie options would be similar in length, a singular construction schedule was assumed for all options.

2 GENERAL ANALYSIS AND METHODOLOGY

Project-generated air pollutant and GHG emissions are estimated using the most recent version of the California Emissions Estimator Model version 2016.3.2 (CalEEMod), which is the latest model available for both short-term construction and long-term operational criteria pollutants and GHG emissions. The use of CalEEMod is consistent with the Kern County recommendations for project-level review since CalEEMod uses current emission factors and updated default values and has the ability to quantify indirect air quality emissions and air quality mitigation (Kern County 2006).

Criteria air pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants that are evaluated include reactive organic compounds (ROCs; also referred to as volatile organic compounds (VOCs)), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (PM₁₀), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size (PM_{2.5}). VOCs and NO_x are important because they are precursors to ozone (O₃). Criteria air pollutant emissions associated with construction of the project were estimated for the following emission sources: operation of off-road construction equipment, on and off-road hauling and vendor (material delivery) trucks, and worker vehicles.

Greenhouse Gases

GHGs include, but are not limited to, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), O₃, water vapor, hydrofluorocarbons (HFCs), hydrochlorofluorocarbons (HCFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). Some GHGs, such as CO₂, CH₄, and N₂O, occur naturally and are emitted to the atmosphere through natural processes and human activities. Of these gases, CO₂ and CH₄ are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO₂, include fluorinated gases, such as HFCs, HCFCs, PFCs, and SF₆, which are associated with certain industrial products and processes. GHG emissions are measured in metric tons of CO₂ equivalent (MT CO₂E), which account for weighted global warming potential (GWP) factors for CH₄ and

N₂O. This analysis assumes that the GWP for CH₄ is 25 and the GWP for N₂O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007).

3 CONSTRUCTION AND OPERATIONAL ASSUMPTIONS

3.1 Construction Assumptions

Emissions from the construction phase of the project were estimated using CalEEMod. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided in the previous air quality assessment and CalEEMod default values when project specifics were not known (Edwards AFB 2017).

Construction of the solar facility is anticipated to last up to one to four years, with individual phases are built on a rolling construction schedule. Actual development of the project site is dependent on market conditions upon project approval. For purposes of estimating project emissions, and based on information provided by the project applicant, it is assumed that construction of the project would commence in July 2018¹ and would last approximately 24 months, ending in July 2020. The phasing of construction activities described below represents a worst case scenario; with all phases of solar facility construction happening directly after one another. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Solar Facility Construction July 2018 – July 2020 (24 Months)
- Gen-tie Construction – October 2019 – July 2020 (9 months)

For the analysis, it was generally assumed that heavy construction equipment would be operating at the site for approximately 8 hours per day, 5 days per week (22 days per month), during project construction.

Construction-worker estimates, vendor and haul truck trips by construction phase were based on assumptions in the previous air quality assessment. It was assumed there would an average of 550 peak daily workers for a total of 1,100 one-way trips, 339 daily miscellaneous delivery trips, 504 daily water truck trips(vendor trucks) and 10 daily panel delivery trips (haul trucks). No additional haul truck trips for earthwork materials were assumed because earthwork volumes are anticipated to be balanced on site. Based off the information provided in the previous air quality assessment trip

¹ The analysis assumes a construction start date of July 2018, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

length for worker, vendor and haul trips were assumed to be 30, 7.3 and 114 miles respectively. Additionally, it was assumed that workers and vendors would travel 0.27 miles on unpaved roads each trip and haul trucks would travel 2.5 miles on unpaved miles each trip. (Edwards AFB 2017)

**Table 1
Construction Equipment**

Construction Phase	Equipment			One-way Vehicle Trips		
	Equipment Type	Quantity	Usage Hours	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips
Solar Facility Construction	Excavators	9	1.1	1,100	843	5,200
	Forklifts	25	0.5			
	Generator sets	4	8			
	Off-highway tractors	3	0.3			
	Off-highway tractors	3	0.5			
	Other Construction Equipment	30	2			
	Other Construction Equipment	20	1.1			
	Other Material handling Equipment	10	1.5			
	Rubber Tired Dozers	2	1.4			
	Scrapers	4	1.6			
	Tractors/Loaders/Backhoes	35	0.7			
Trenchers	20	1.2				
Gen-tie Construction	Cranes	1	1.6	116	60	0
	Excavators	1	6			
	Other Construction Equipment	2	2			
	Other Construction Equipment	2	4			
	Other Material Handling Equipment	1	4			
	Tractors/Loaders/Backhoes	1	4			

Source, Attachment A.

Ambient Air Quality Impacts

Per the *Guidelines for Preparing an Air Quality Assessment for Use in Environmental Impact Reports* (Kern County 2006), this air quality modeling analysis assessed the PM₁₀ and PM_{2.5} ambient air quality impacts associated with the project to determine if project emissions are

predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS). The ambient air quality assessment (AAQA) Dispersion modeling results are provided in Attachment B.

Construction

The dispersion modeling was performed using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD), which is the model Eastern Kern Air Pollution Control District (EKACPD) requires for atmospheric dispersion of emissions. Off-site concentrations were modeled for the construction phase with the estimated project emissions in order to determine compliance with the CAAQS and NAAQS. Principal parameters of AERMOD for the project construction include the following:

Dispersion Modeling. The air dispersion model used was AERMOD, Version 16216r, with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.5.0. AERMOD was run with all sources emitting unit emissions (1 g/s) to obtain the “X/Q” values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength, and is used as a way to simplify the representation of emissions from many sources. The X/Q values of ground level concentrations (GLCs) were determined for construction emissions using AERMOD and the maximum 24-hour and Period concentrations.

Meteorological Data. The latest 5-year meteorological data (2009–2013) for the Edwards AFB station from the California Air Resources Board (CARB) were used.

Urban and Rural Options. Urban areas typically have more surface roughness as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. The rural dispersion option was selected due to the undeveloped nature of the project site.

Terrain Characteristics. The terrain in the vicinity of the project site is generally flat. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.

Modeling Grid. A nested grid of sensitive receptors was evaluated to capture maximum ambient pollutant impacts. This telescoping grid of receptors was set up with the following resolutions:

- 25-meter spacing on the facility boundary
- 25-meter spacing from facility boundary to 100 meters

- 50-meter spacing from 100 meters to 250 meters
- 100-meter spacing from 250 meters to 500 meters
- 250-meter spacing from 500 meters to 1 kilometer
- 500-meter spacing from 1 kilometer to 2 kilometers

Source Equipment Operating Scenarios. Air dispersion modeling of construction activities was conducted using emissions generated using CalEEMod. The construction area was modeled as a single area source.

Source Release Characterizations. For modeling construction emissions impacts using AERMOD, based on the worse-case project phase duration and number of concurrent activities for the project, it was assumed that approximately 200-acres of the total site area would have active construction activities at any one time and an initial vertical dimension of 1.4 meters and release height of 5 meters was used for diesel equipment and truck exhaust.

3.2 Operational Assumptions

Area Sources

CalEEMod emission factors were used to estimate operational emissions from area sources, which include architectural coatings. VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers using during building maintenance. The VOC evaporative emissions from application of nonresidential surface coatings were calculated based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The VOC emission factor is based on the VOC content of the surface coatings. Based on the type of structure for the Operations and Maintenance (O&M) building, it is assumed that the surface area for painting equals two times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating (CAPCOA 2016).

During operation and maintenance, one of the main sources of GHG emissions would be fugitive emissions from equipment containing SF₆ gas installed at the proposed on-site substations. SF₆ has a GWP of 23,900 using CO₂ at a reference value of 1 (UNFCCC 2014). The only piece of equipment on the project will occur within a substation that will have SF₆ gas would be the 230 kV breakers. It is estimated that the project will have a total of up to three 230 kV breakers, for a total of 576 lbs. of SF₆ gas. The proposed project's circuit breakers would have a maximum annual leak rate of 0.5%, based on the manufacturer's guaranteed specifications. The project will be

required to report annual SF6 gas emission, whether normal or accidental, to the California Air Resource Board under Title 17, Sections 95350 through 95359 of the California Code of Regulations.

Energy Sources

Energy sources include emissions associated with project electricity usage and on-site power generation. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use were only quantified for GHGs, since criteria pollutant emissions occur at the site of the power plant, which is typically off site.

The estimation of operational GHG emissions for the O&M building was based on CalEEMod default assumptions for the unrefrigerated warehouse land use. CalEEMod default energy intensity factors (CO₂, CH₄, and N₂O mass emissions per kilowatt-hour) for SCE are based on the value for SCE's energy mix in 2008 (the latest year provided in CalEEMod).

Mobile Sources

Mobile sources for the project would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the project site. Motor vehicles may be fueled with gasoline, diesel, or alternative fuels. Based on conservative estimates for vehicular travel, the project is anticipated to have up to 8,778 trips per year during operation, accounting for the commutes and performance of regular inspection and maintenance activities by 24 full-time-equivalent staff. Estimated activity data from the Applicant and CalEEMod were used to calculate emissions from this source category.

Solid Waste

The project would generate solid waste, and therefore, result in CO₂E emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste. Solid waste would be generated through maintenance activities and the O&M building.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the proposed project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. The project applicant provided water consumption

estimates for both indoor and outdoor water use and associated electricity consumption from water use and wastewater generation and emissions were estimated using CalEEMod.

Off-road Vehicles

To conduct maintenance activities on-site, including but not limited to panel replacement and repair, it was assumed that two forklifts and two backhoes would be employed for eight hours a day, 12 days a year. This information in conjunction with CalEEMod default values were utilized to estimate operational off-road vehicle criteria air pollutant and GHG emission in CalEEMod.

Carbon Sequestration

Carbon sequestration is the process by which CO₂ is removed from the atmosphere and deposited into a carbon reservoir (e.g. vegetation). Trees and vegetation take in CO₂ from the atmosphere during photosynthesis, break down the CO₂, store the carbon within plant parts, and release the oxygen back into the atmosphere. Operation of the solar facility would lead to a reduction in the rate of natural carbon sequestration because of the removal of desert vegetation and biological soil crust. The rate of carbon uptake for the project site is estimated to be 0.93 metric tons of CO₂ per acre per year (Wohlfahrt et al., 2008; Schlesinger, et al., 2009). It was conservatively assumed that all desert vegetation within the disturbed area of the project site would be removed.

4.0 EMISSION CALCULATIONS

4.1 Construction Emissions

4.1.1 Construction Criteria Pollutant Mass Emissions

As previously described in Section 2.1, Project Construction Assumptions, it is assumed that construction of the project would commence in July 2018 and would last approximately 24 months, ending in July 2020. As mentioned previously this represents a reasonable worst case scenario with individual sections of the facility are built directly after one another. Table 2, presents the estimated maximum daily construction emissions generated during construction of the project. Details of the emission calculations are provided in Attachment A.

Table 2
Estimated Maximum Daily Unmitigated Construction Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	pounds per day					
2018	32.58	248.33	224.20	0.62	542.57	65.39
2019	32.38	252.76	229.97	0.67	476.92	58.90
2020	29.04	226.82	214.94	0.66	545.69	64.81
Maximum Daily Emissions	32.58	252.76	229.97	0.67	545.69	65.39

Notes: CO = carbon monoxide; NO_x = oxides of nitrogen; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC = volatile organic compound
See Attachment A for complete results.

Maximum daily emissions of CO, and VOC would occur in 2018. Maximum daily emissions of SO_x, and NO_x would occur in 2019. Maximum daily emissions of PM₁₀ and PM_{2.5} would occur in 2020.

Table 3 presents the estimated mitigated daily emissions generated during construction of the project in 2018, 2019 and 2020.

Table 3
Estimated Maximum Daily Mitigated Construction Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	pounds per day					
2018	22.48	183.21	234.32	0.62	163.87	24.73
2019	22.47	193.51	242.98	0.67	146.72	23.48
2020	20.07	179.09	229.09	0.66	165.86	25.03
Maximum Daily Emissions	22.48	193.51	242.98	0.67	165.86	25.03

Notes: CO = carbon monoxide; NO_x = oxides of nitrogen; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC = volatile organic compound
These results do include incorporation of Rule 402 and Tier 3 equipment.
See Attachment A for complete results.

As shown in Table 3, maximum daily emissions of VOC, NO_x, PM₁₀ and PM_{2.5} were reduced compared to the unmitigated emissions in Table 2. The mitigated construction scenario includes use of tier 3 equipment and compliance with Rule 402, specifically limiting off-road vehicle speed to 15 miles per hour and watering twice daily. Table 4 presents the estimated annual unmitigated emissions generated during construction of the project.

Table 4
Estimated Annual Unmitigated Construction Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	tons per year					
2018	2.05	16.16	14.89	0.04	32.11	4.00
2019	3.78	30.51	28.30	0.08	55.77	7.06
2020	1.79	14.50	14.02	0.04	30.96	3.87
Maximum Annual Emissions	3.78	30.51	28.30	0.08	55.77	7.06

Notes: CO = carbon monoxide; NO_x = oxides of nitrogen; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC= volatile organic compound
See Attachment A for complete results.

As shown in Table 4, the project’s estimated emissions would be greatest in 2019 for all criteria air pollutants. Table 5, presents the estimated annual mitigated emissions generated during construction. The same reduction measures previously discussed in the daily mitigated table are included into the annual mitigated table.

Table 5
Estimated Annual Mitigated Construction Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	tons per year					
2018	1.39	11.89	15.51	0.04	9.98	1.54
2019	2.57	23.31	29.82	0.08	17.57	2.83
2020	1.21	11.43	14.93	0.04	9.88	1.53
Maximum Annual Emissions	2.57	23.31	29.82	0.08	17.57	2.83

Notes: CO = carbon monoxide; NO_x = oxides of nitrogen; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC= volatile organic compound
These results include incorporation of Rule 402 and Tier 3 equipment.
See Attachment A for complete results.

As shown in Table 5, annual construction emissions with reduction measures included would result in reductions to all criteria all pollutants except for CO which would increase due to the use of tier 3 engines for off-road equipment.

4.1.2 Construction Ambient Air Quality Assessment

Maximum daily emissions were used as the basis for determining the project’s potential impact on ambient air quality. For the initial assessment (Step 1) of the AAQA, the maximum background concentration for the project site for each pollutant and averaging period combination was added to the corresponding maximum GLC from project-related construction. The sum of these values was then compared to the corresponding ambient air quality standard. If the incremental increase in

concentration from project-related sources did not cause an exceedance of an ambient air quality standard, then the analysis was complete for that source/receptor/pollutant combination. If the incremental increase in concentration from project-related sources caused an exceedance of an ambient air quality standard, then the analysis proceeded to Step 2. Step 2 was similar to a Step 1 with one major difference. For this step, the maximum GLC of each pollutant and averaging period combination were compared to the pollutant’s corresponding significance impact level (SIL). The SIL is used to evaluate whether the project’s construction emissions would contribute to a violation of an ambient air quality standard, where the background level is close to or exceeds an ambient air quality standard. If the maximum GLC did not exceed the corresponding SIL, then the analysis was complete for that source/receptor/pollutant combination, and no further analysis was required. Table 6 presents a summary of the two-step process taken to determine whether construction activities associated with the project would cause or contribute to ambient air quality impacts, with the detailed AAQA included in Attachment B.

Table 6
Unmitigated Construction Ambient Air Quality Impact Assessment Results¹

STEP 1 – Ambient Air Quality Standard Basis				
Impact Parameter	Applicable Standard	AAQS	Maximum Concentration: Project + Background Levels	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	Exceed AAQS?
24-hour PM ₁₀	State	50	314	Yes (Step 2)
	Federal	150	327	Yes (Step 2)
Annual PM ₁₀	State	20	31	Yes (Step 2)
24-hour PM _{2.5}	Federal	35	59	Yes (Step 2)
Annual PM _{2.5}	State	12	7	No
	Federal	12	8	No
STEP 2 – EPA Significant Impact Level (SIL) Basis				
Impact Parameter	Class II SILs	Project Construction		
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	Exceed SIL?	
24-hour PM ₁₀	5	143	Yes	
Annual PM ₁₀	1	7	Yes	
24-hour PM _{2.5}	5	17	Yes	

Note: AAQS = Ambient Air Quality Standard; CO = carbon monoxide; NO₂ = nitrogen dioxide; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; EPA = Environmental Protection Agency; SIL = significant impact level

See Attachment B for complete results.

¹ Step 1 - the AAQS basis compares the background concentrations plus project contribution to the state and federal AAQS to determine if there would be an exceedance of the respective standard. For PM₁₀ and PM_{2.5}, background concentrations already exceed the applicable AAQS (except for the annual state and federal PM_{2.5} AAQS), so Step 2—the SIL basis—compares the project contributions to levels determined by the SJVAPCD to cause or contribute to ambient air quality exceedances and impacts.

As demonstrated in Table 6, the project would result in construction activities that could generate ambient concentrations of PM₁₀ and PM_{2.5} above the applicable thresholds. Table 7 presents the mitigated construction AAQA.

Table 7
Mitigated Construction Ambient Air Quality Impact Assessment Results¹

STEP 1 – Ambient Air Quality Standard Basis				
Impact Parameter	Applicable Standard	AAQS	Maximum Concentration: Project + Background Levels	
		µg/m ³	µg/m ³	Exceed AAQS?
24-hour PM ₁₀	State	50	214	Yes (Step 2)
	Federal	150	228	Yes (Step 2)
Annual PM ₁₀	State	20	26	Yes (Step 2)
24-hour PM _{2.5}	Federal	35	49	Yes (Step 2)
Annual PM _{2.5}	State	12	6	No
	Federal	12	8	No
STEP 2 – EPA Significant Impact Level (SIL) Basis				
Impact Parameter	Class II SILs	Project Construction		
	µg/m ³	µg/m ³	Exceed SIL?	
24-hour PM ₁₀	5	43	Yes	
Annual PM ₁₀	1	2	Yes	
24-hour PM _{2.5}	5	7	Yes	

Note: AAQS = Ambient Air Quality Standard; CO = carbon monoxide; NO₂ = nitrogen dioxide; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; EPA = Environmental Protection Agency; SIL = significant impact level
See Attachment B for complete results. These results include compliance with fugitive dust control requirements of EKAPCD Rule 402 and Tier 3 engines.

¹ Step 1 - the AAQS basis compares the background concentrations plus project contribution to the state and federal AAQS to determine if there would be an exceedance of the respective standard. For PM₁₀ and PM_{2.5}, background concentrations already exceed the applicable AAQS (except for the annual state and federal PM_{2.5} AAQS), so Step 2—the SIL basis—compares the project contributions to levels determined by the SJVAPCD to cause or contribute to ambient air quality exceedances and impacts.

As demonstrated in Table 7, mitigation measures would reduce PM₁₀ and PM_{2.5} concentrations associated with project construction, but the project would still result in construction activities that would generate ambient concentrations of PM₁₀ and PM_{2.5} above the applicable thresholds.

4.1.3 Construction GHG Emissions

Table 8 presents annual construction GHG emissions for the project in 2018, 2019 and 2020 from on-site and off-site emission sources.

Table 8
Estimated Annual Construction Greenhouse Gas Emissions

Year	CO ₂	CH ₄	N ₂ O	CO ₂ E
	Metric Tons per Year			
2018	3,781.76	0.34	0.00	3,790.26
2019	7,591.43	0.68	0.00	7,608.45
2020	3,936.73	0.36	0.00	3,945.72
Total	15,309.83	1.38	0.00	15,344.43

Notes: CH₄ = methane; CO₂ = carbon dioxide; CO₂E = carbon dioxide equivalent; N₂O = nitrous oxide
See Attachment A for complete results.

As shown in Table 8, the estimate total GHG emissions during construction would be approximately 3,790 MT CO₂E in 2018, 7,608 MT CO₂E in 2019 and 3,945 MT CO₂E in 2020, for a total of 15,344 MT CO₂E over the two year construction period. The project would produce GHG emissions from construction. However, since the project is a renewable energy facility, the operation of the proposed facility would potentially offset GHG emissions that would have otherwise been generated by fossil-fuel power plants.

4.2 Operational Emissions

4.2.1 Operational Criteria Pollutant Emissions

Operation of the project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources, including vehicle trips from employee commutes and maintenance vehicles. Table 9 presents the maximum daily source emissions associated with operation (year 2020) of the project. Details of the emissions calculations are provided in Attachment A

Table 9
Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Area	1.11	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.11	1.48	1.21	0.01	0.32	0.09
Off-road	0.71	6.81	6.92	0.01	0.46	0.42
Total Daily Emissions	1.93	8.28	8.05	0.02	0.78	0.51

Notes: PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC = volatile organic compounds
See Attachment A for complete results.

As shown Table 9, off-road equipment used during maintenance and testing when operated would be the primary source of daily criteria air pollutant emissions. Table 10 presents the maximum

annual source emissions associated with operation (year 2020) of the project. Details of the emissions calculations are provided in Attachment A.

Table 10
Estimated Maximum Annual Operational Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Tons per Year					
Area	0.20	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.02	0.27	0.20	0.00	0.06	0.02
Off-road	0.00	0.04	0.04	0.00	0.00	0.00
Total Annual Emissions	0.23	0.31	0.24	0.00	0.06	0.02

Notes: PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC = volatile organic compounds
See Attachment A for complete results.

As shown in Table 10, mobile sources including employee commutes and maintenance vehicles would be the primary source of criteria air pollutants over the course of one full year of operation.

4.2.2 Operational GHG Emissions

Operation of the project would generate GHG emissions through motor vehicle trips to and from the project site; energy use (natural gas or electricity consumed by the project); solid waste disposal; and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment. The estimated operational (year 2020) project-generated GHG emissions from area sources, energy usage, motor vehicles, solid waste generation, and water usage and wastewater generation are shown in Table 11.

Table 11
Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO ₂	CH ₄	N ₂ O	CO ₂ E
	Metric Tons per Year			
Energy	0.00	0.00	0.00	0.00
Area	42.44	0.01	0.00	74.71 ¹
Mobile	99.35	0.01	0.00	99.53
Off-road	4.89	0.01	0.00	4.93
Waste	7.63	0.45	0.00	18.91
Water	52.88	0.37	0.01	62.70
Lost Carbon Sequestration	3,720 ²	00.00	00.00	3,720
Total	3,919.56	0.83	0.01	3,948.65

Notes: CH₄ = methane; CO₂ = carbon dioxide; CO₂E = carbon dioxide equivalent; N₂O = nitrous oxide
¹ Includes emissions from SF₆ (576 pounds of SF₆ assuming a 5% leak rate = 31.22 MT CO₂E per year.)
² 0.93(Carbon Uptake factor)*4,000 acres = 3720 MT CO₂
 See Attachment A for complete results.

As shown in Table 9, estimated annual project-generated GHG emissions would be approximately 3,949 MT CO₂E per year as a result of project operation. As mentioned previously, the project would produce GHG emissions from construction and operation.

However, the project is expected to produce 1,847,040 MWh per year. The latest published GHG emission factor for Southern California Edison is 0.256 MT CO₂e/MWh (Southern California Edison 2017). Southern California Edison reported that 28 percent of its power mix was renewable in 2016. (CEC 2017) Therefore, the non-renewable GHG emission factor would be 0.356 MT CO₂e/MWh. Thus, the Project would provide a potential reduction of 656,725 MT CO₂e per year if the renewable electricity generated by the project were to be used instead of electricity generated by fossil-fuel sources. Annualized construction and operational emissions are calculated to be 3,949 MT CO₂e per year. Thus, the net reduction in GHG emissions would be 652,776 MT CO₂e per year and 19,583,280 MT CO₂e over a 30 year project lifetime. This reduction is not to be considered in the significance determination of the project's GHG emissions but is provided for disclosure purposes.

5 REFERENCES

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- Southern California Edison 2017. EEL ESG/ Sustainability Template – Section 2 Quantitative Information. December 2017.
- United Nations Framework Convention on Climate Change (UNFCCC) 2014. Global Warming Potentials. http://unfccc.int/ghg_data/items/3825.php.
- Wohlfahrt et al., 2008; Schlesinger, et al., 2009. *On Carbon Sequestration in Desert Ecosystems*. June 2009.

ATTACHMENT A
CalEEMod Outputs

Edwards Airforce Base - Kern-Mojave Desert County, Annual

Edwards Airforce Base
Kern-Mojave Desert County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	40.00	1000sqft	4,000.00	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	32
Climate Zone	7	Operational Year		2020	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction State Date July 2018. Operational year 2020.

Land Use - Maximum of 40,000 square foot operational warehouse, operational and maintenance building. Lot area = 4,000 acres.

Construction Phase - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Trips and VMT - VMT and trip length information based on applicant provided information.

On-road Fugitive Dust - Vehicle and vendor trips would travel 0.27 miles on unpaved roads each trip. Haul trucks would travel 2.5 miles on unpaved roads each trip.

Grading - CalEEMod Default values.

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	15,500.00	520.00
tblConstructionPhase	NumDays	15,500.00	200.00
tblLandUse	LotAcreage	0.92	4,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	35.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	25.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	28.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction

tblOffRoadEquipment	PhaseName			Solar Facility Construction
tblOffRoadEquipment	PhaseName			Solar Facility Construction
tblOffRoadEquipment	PhaseName			Solar Facility Construction
tblOffRoadEquipment	PhaseName			Solar Facility Construction
tblOffRoadEquipment	PhaseName			Solar Facility Construction
tblOffRoadEquipment	PhaseName			Solar Facility Construction
tblOffRoadEquipment	UsageHours		8.00	1.10
tblOffRoadEquipment	UsageHours		8.00	6.00
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tblOffRoadEquipment	UsageHours		8.00	0.00
tblOffRoadEquipment	UsageHours		8.00	0.00
tblOffRoadEquipment	UsageHours		8.00	1.60
tblOffRoadEquipment	UsageHours		8.00	0.00
tblOffRoadEquipment	UsageHours		8.00	0.70
tblOffRoadEquipment	UsageHours		8.00	4.00
tblOnRoadDust	HaulingPercentPave		100.00	98.00
tblOnRoadDust	RoadSiltLoading		0.10	0.03
tblOnRoadDust	RoadSiltLoading		0.10	0.03
tblOnRoadDust	VendorPercentPave		100.00	96.30
tblOnRoadDust	WorkerPercentPave		100.00	99.90
tblOperationalOffRoadEquipment	OperDaysPerYear		260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear		260.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber		0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber		0.00	2.00
tblTripsAndVMT	HaulingTripLength		20.00	114.00
tblTripsAndVMT	HaulingTripNumber		0.00	5,200.00
tblTripsAndVMT	VendorTripNumber		0.00	843.00
tblTripsAndVMT	VendorTripNumber		0.00	60.00
tblTripsAndVMT	VendorVehicleClass		HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength		10.80	30.00

tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripNumber	483.00	1,100.00
tblTripsAndVMT	WorkerTripNumber	20.00	116.00
tblVehicleTrips	ST_TR	1.68	1.23
tblVehicleTrips	SU_TR	1.68	1.23
tblVehicleTrips	WD_TR	1.68	1.23
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,250,000.00	1,629,000.00
tblWater	OutdoorWaterUseRate	0.00	13,030,000.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	2.0453	16.1571	14.8924	0.0412	31.4645	0.6430	32.1075	3.4001	0.6010	4.0011	0.0000	3,781.7642	3,781.7642	0.3399	0.0000	3,790.2616
2019	3.7790	30.5070	28.3004	0.0830	54.5867	1.1814	55.7681	5.9600	1.1030	7.0631	0.0000	7,591.4370	7,591.4370	0.6807	0.0000	7,608.4550
2020	1.7866	14.5015	14.0197	0.0432	30.9622	0.5440	31.5062	3.3675	0.5067	3.8742	0.0000	3,936.7316	3,936.7316	0.3596	0.0000	3,945.7215
Maximum	3.7790	30.5070	28.3004	0.0830	54.5867	1.1814	55.7681	5.9600	1.1030	7.0631	0.0000	7,591.4370	7,591.4370	0.6807	0.0000	7,608.4550

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	1.3837	11.8918	15.5551	0.0412	9.5803	0.3954	9.9757	1.1530	0.3899	1.5429	0.0000	3,781.7630	3,781.7630	0.3399	0.0000	3,790.2604
2019	2.5691	23.3052	29.8209	0.0830	16.7938	0.7738	17.5676	2.0673	0.7642	2.8314	0.0000	7,591.4346	7,591.4346	0.6807	0.0000	7,608.4527
2020	1.2100	11.4344	14.9308	0.0432	9.5026	0.3738	9.8764	1.1584	0.3703	1.5287	0.0000	3,936.7304	3,936.7304	0.3596	0.0000	3,945.7203
Maximum	2.5691	23.3052	29.8209	0.0830	16.7938	0.7738	17.5676	2.0673	0.7642	2.8314	0.0000	7,591.4346	7,591.4346	0.6807	0.0000	7,608.4527

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	32.16	23.76	-5.41	0.00	69.34	34.85	68.66	65.60	31.04	60.48	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-2-2018	10-1-2018	9.0273	6.5558
2	10-2-2018	1-1-2019	9.2218	6.7548
3	1-2-2019	4-1-2019	8.3163	6.2959
4	4-2-2019	7-1-2019	8.2298	6.1870
5	7-2-2019	10-1-2019	8.3317	6.2642
6	10-2-2019	1-1-2020	9.3584	7.0895
7	1-2-2020	4-1-2020	8.3139	6.4711
8	4-2-2020	7-1-2020	7.7522	6.0019
9	7-2-2020	9-30-2020	0.0424	0.0336
		Highest	9.3584	7.0895

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2026	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	42.4404	42.4404	1.7500e-003	3.6000e-004	42.5922
Mobile	0.0207	0.2690	0.2017	1.0700e-003	0.0555	1.1400e-003	0.0567	0.0149	1.0800e-003	0.0160	0.0000	99.3513	99.3513	7.2200e-003	0.0000	99.5317
Offroad	4.2400e-003	0.0408	0.0415	6.0000e-005		2.7600e-003	2.7600e-003		2.5400e-003	2.5400e-003	0.0000	4.8857	4.8857	1.5800e-003	0.0000	4.9252
Waste						0.0000	0.0000		0.0000	0.0000	7.6325	0.0000	7.6325	0.4511	0.0000	18.9091
Water						0.0000	0.0000		0.0000	0.0000	0.0000	52.8830	52.8830	0.3722	1.7100e-003	62.6954
Total	0.2275	0.3098	0.2436	1.1300e-003	0.0555	3.9000e-003	0.0594	0.0149	3.6200e-003	0.0186	7.6325	199.5612	207.1936	0.8338	2.0700e-003	228.6544

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2026	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	42.4404	42.4404	1.7500e-003	3.6000e-004	42.5922
Mobile	0.0207	0.2690	0.2017	1.0700e-003	0.0555	1.1400e-003	0.0567	0.0149	1.0800e-003	0.0160	0.0000	99.3513	99.3513	7.2200e-003	0.0000	99.5317
Offroad	4.2400e-003	0.0408	0.0415	6.0000e-005		2.7600e-003	2.7600e-003		2.5400e-003	2.5400e-003	0.0000	4.8857	4.8857	1.5800e-003	0.0000	4.9252
Waste						0.0000	0.0000		0.0000	0.0000	7.6325	0.0000	7.6325	0.4511	0.0000	18.9091
Water						0.0000	0.0000		0.0000	0.0000	0.0000	52.8830	52.8830	0.3722	1.7100e-003	62.6954
Total	0.2275	0.3098	0.2436	1.1300e-003	0.0555	3.9000e-003	0.0594	0.0149	3.6200e-003	0.0186	7.6325	199.5612	207.1936	0.8338	2.0700e-003	228.6544

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Solar Facility Construction	Grading	7/2/2018	6/26/2020	5	520	
2	Gen-Tie Construction	Grading	10/1/2019	7/6/2020	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Solar Facility Construction	Excavators	9	1.10	158	0.38
Solar Facility Construction	Forklifts	25	0.50	89	0.20
Solar Facility Construction	Generator Sets	4	8.00	84	0.74
Solar Facility Construction	Graders	0	0.00	187	0.41
Solar Facility Construction	Off-Highway Tractors	3	0.30	124	0.44
Solar Facility Construction	Off-Highway Tractors	3	0.50	124	0.44
Solar Facility Construction	Other Construction Equipment	30	2.00	172	0.42
Solar Facility Construction	Other Construction Equipment	20	1.10	172	0.42
Solar Facility Construction	Other Construction Equipment	28	0.80	172	0.42
Solar Facility Construction	Other Material Handling Equipment	10	1.50	168	0.40
Solar Facility Construction	Rubber Tired Loaders	2	1.40	203	0.36
Solar Facility Construction	Scrapers	4	1.60	367	0.48

Category	tons/yr										MT/yr					
Fugitive Dust					0.2206	0.0000	0.2206	0.0238	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.9151	9.4122	6.9446	0.0106		0.5262	0.5262		0.4896	0.4896	0.0000	958.9166	958.9166	0.2631	0.0000	965.4943
Total	0.9151	9.4122	6.9446	0.0106	0.2206	0.5262	0.7468	0.0238	0.4896	0.5134	0.0000	958.9166	958.9166	0.2631	0.0000	965.4943

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0253	0.8121	0.1234	2.6300e-003	7.9753	4.1800e-003	7.9795	0.8155	4.0000e-003	0.8195	0.0000	249.9190	249.9190	4.5400e-003	0.0000	250.0324
Vendor	0.3313	5.3077	1.9993	0.0109	20.1525	0.1015	20.2541	2.0718	0.0971	2.1689	0.0000	1,024.6038	1,024.6038	0.0261	0.0000	1,025.2574
Worker	0.7736	0.6252	5.8252	0.0171	3.1161	0.0111	3.1272	0.4890	0.0102	0.4993	0.0000	1,548.3247	1,548.3247	0.0461	0.0000	1,549.4774
Total	1.1301	6.7450	7.9478	0.0306	31.2439	0.1168	31.3607	3.3763	0.1113	3.4876	0.0000	2,822.8475	2,822.8475	0.0768	0.0000	2,824.7673

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0993	0.0000	0.0993	0.0107	0.0000	0.0107	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2536	5.1469	7.6073	0.0106		0.2786	0.2786		0.2786	0.2786	0.0000	958.9155	958.9155	0.2631	0.0000	965.4931

Total	0.2536	5.1469	7.6073	0.0106	0.0993	0.2786	0.3778	0.0107	0.2786	0.2893	0.0000	958.9155	958.9155	0.2631	0.0000	965.4931
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0253	0.8121	0.1234	2.6300e-003	2.2717	4.1800e-003	2.2759	0.2398	4.0000e-003	0.2437	0.0000	249.9190	249.9190	4.5400e-003	0.0000	250.0324
Vendor	0.3313	5.3077	1.9993	0.0109	5.7291	0.1015	5.8306	0.6234	0.0971	0.7205	0.0000	1,024.6038	1,024.6038	0.0261	0.0000	1,025.2574
Worker	0.7736	0.6252	5.8252	0.0171	1.4803	0.0111	1.4914	0.2791	0.0102	0.2894	0.0000	1,548.3247	1,548.3247	0.0461	0.0000	1,549.4774
Total	1.1301	6.7450	7.9478	0.0306	9.4811	0.1168	9.5978	1.1423	0.1113	1.2536	0.0000	2,822.8475	2,822.8475	0.0768	0.0000	2,824.7673

3.2 Solar Facility Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2206	0.0000	0.2206	0.0238	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6853	17.2771	13.6961	0.0211		0.9527	0.9527		0.8859	0.8859	0.0000	1,884.9264	1,884.9264	0.5217	0.0000	1,897.9692
Total	1.6853	17.2771	13.6961	0.0211	0.2206	0.9527	1.1732	0.0238	0.8859	0.9097	0.0000	1,884.9264	1,884.9264	0.5217	0.0000	1,897.9692

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0482	1.5143	0.2408	5.1700e-003	7.9912	7.5700e-003	7.9988	0.8212	7.2500e-003	0.8285	0.0000	492.3307	492.3307	8.6500e-003	0.0000	492.5469
Vendor	0.5726	9.8602	3.4663	0.0215	40.1513	0.1721	40.3233	4.1278	0.1646	4.2924	0.0000	2,034.4569	2,034.4569	0.0456	0.0000	2,035.5963
Worker	1.3813	1.0828	10.1710	0.0331	6.2084	0.0216	6.2301	0.9743	0.0199	0.9943	0.0000	2,989.4677	2,989.4677	0.0804	0.0000	2,991.4772
Total	2.0021	12.4573	13.8781	0.0598	54.3509	0.2013	54.5521	5.9233	0.1918	6.1151	0.0000	5,516.2553	5,516.2553	0.1346	0.0000	5,519.6204

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0993	0.0000	0.0993	0.0107	0.0000	0.0107	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5052	10.2545	15.1565	0.0211		0.5550	0.5550		0.5550	0.5550	0.0000	1,884.9241	1,884.9241	0.5217	0.0000	1,897.9670
Total	0.5052	10.2545	15.1565	0.0211	0.0993	0.5550	0.6543	0.0107	0.5550	0.5658	0.0000	1,884.9241	1,884.9241	0.5217	0.0000	1,897.9670

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0482	1.5143	0.2408	5.1700e-003	2.2876	7.5700e-003	2.2952	0.2455	7.2500e-003	0.2528	0.0000	492.3307	492.3307	8.6500e-003	0.0000	492.5469
Vendor	0.5726	9.8602	3.4663	0.0215	11.4144	0.1721	11.5865	1.2420	0.1646	1.4067	0.0000	2,034.4569	2,034.4569	0.0456	0.0000	2,035.5963
Worker	1.3813	1.0828	10.1710	0.0331	2.9493	0.0216	2.9710	0.5561	0.0199	0.5760	0.0000	2,989.4677	2,989.4677	0.0804	0.0000	2,991.4772
Total	2.0021	12.4573	13.8781	0.0598	16.6513	0.2013	16.8526	2.0437	0.1918	2.2355	0.0000	5,516.2553	5,516.2553	0.1346	0.0000	5,519.6204

3.2 Solar Facility Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2206	0.0000	0.2206	0.0238	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7703	7.8191	6.6501	0.0104		0.4268	0.4268		0.3967	0.3967	0.0000	907.4519	907.4519	0.2548	0.0000	913.8228
Total	0.7703	7.8191	6.6501	0.0104	0.2206	0.4268	0.6474	0.0238	0.3967	0.4205	0.0000	907.4519	907.4519	0.2548	0.0000	913.8228

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0220	0.6842	0.1132	2.5100e-003	7.9749	3.1200e-003	7.9780	0.8153	2.9800e-003	0.8183	0.0000	238.5004	238.5004	3.9800e-003	0.0000	238.5999
Vendor	0.2075	4.1030	1.4105	0.0105	19.6910	0.0540	19.7451	2.0244	0.0517	2.0760	0.0000	993.8522	993.8522	0.0181	0.0000	994.3044
Worker	0.6173	0.4670	4.4503	0.0157	3.0447	0.0104	3.0551	0.4778	9.5300e-003	0.4874	0.0000	1,419.2612	1,419.2612	0.0344	0.0000	1,420.1204
Total	0.8468	5.2541	5.9740	0.0287	30.7107	0.0675	30.7782	3.3175	0.0642	3.3817	0.0000	2,651.6137	2,651.6137	0.0564	0.0000	2,653.0247

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0993	0.0000	0.0993	0.0107	0.0000	0.0107	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2478	5.0290	7.4331	0.0104		0.2722	0.2722		0.2722	0.2722	0.0000	907.4508	907.4508	0.2548	0.0000	913.8218
Total	0.2478	5.0290	7.4331	0.0104	0.0993	0.2722	0.3715	0.0107	0.2722	0.2829	0.0000	907.4508	907.4508	0.2548	0.0000	913.8218

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0220	0.6842	0.1132	2.5100e-003	2.2713	3.1200e-003	2.2744	0.2396	2.9800e-003	0.2426	0.0000	238.5004	238.5004	3.9800e-003	0.0000	238.5999
Vendor	0.2075	4.1030	1.4105	0.0105	5.5979	0.0540	5.6519	0.6091	0.0517	0.6608	0.0000	993.8522	993.8522	0.0181	0.0000	994.3044
Worker	0.6173	0.4670	4.4503	0.0157	1.4464	0.0104	1.4568	0.2727	9.5300e-003	0.2823	0.0000	1,419.2612	1,419.2612	0.0344	0.0000	1,420.1204
Total	0.8468	5.2541	5.9740	0.0287	9.3156	0.0675	9.3831	1.1215	0.0642	1.1857	0.0000	2,651.6137	2,651.6137	0.0564	0.0000	2,653.0247

3.3 Gen-Tie Construction - 2019

Unmitigated Construction On-Site

Off-Road	0.0153	0.2992	0.4616	6.2000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	55.5520	55.5520	0.0176	0.0000	55.9914
Total	0.0153	0.2992	0.4616	6.2000e-004	0.0000	0.0149	0.0149	0.0000	0.0149	0.0149	0.0000	55.5520	55.5520	0.0176	0.0000	55.9914

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7100e-003	0.2653	0.0535	5.8000e-004	6.9900e-003	1.9900e-003	8.9900e-003	2.2900e-003	1.9100e-003	4.1900e-003	0.0000	54.9841	54.9841	4.6800e-003	0.0000	55.1012
Worker	0.0368	0.0289	0.2712	8.8000e-004	0.0362	5.8000e-004	0.0368	0.0106	5.3000e-004	0.0111	0.0000	79.7191	79.7191	2.1400e-003	0.0000	79.7727
Total	0.0465	0.2942	0.3247	1.4600e-003	0.0432	2.5700e-003	0.0458	0.0129	2.4400e-003	0.0153	0.0000	134.7032	134.7032	6.8200e-003	0.0000	134.8739

3.3 Gen-Tie Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0851	0.8845	0.8091	1.2600e-003		0.0458	0.0458		0.0421	0.0421	0.0000	110.3350	110.3350	0.0357	0.0000	111.2271
Total	0.0851	0.8845	0.8091	1.2600e-003	0.0000	0.0458	0.0458	0.0000	0.0421	0.0421	0.0000	110.3350	110.3350	0.0357	0.0000	111.2271

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0163	0.4923	0.0952	1.1700e-003	7.8600e-003	2.7600e-003	0.0106	4.6400e-003	2.6400e-003	7.2800e-003	0.0000	110.6478	110.6478	8.8400e-003	0.0000	110.8688
Worker	0.0682	0.0516	0.4913	1.7300e-003	0.0231	1.1400e-003	0.0242	0.0215	1.0500e-003	0.0226	0.0000	156.6832	156.6832	3.7900e-003	0.0000	156.7781
Total	0.0844	0.5438	0.5865	2.9000e-003	0.0309	3.9000e-003	0.0348	0.0262	3.6900e-003	0.0299	0.0000	267.3311	267.3311	0.0126	0.0000	267.6469

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.6075	0.9372	1.2600e-003		0.0302	0.0302		0.0302	0.0302	0.0000	110.3348	110.3348	0.0357	0.0000	111.2269
Total	0.0310	0.6075	0.9372	1.2600e-003	0.0000	0.0302	0.0302	0.0000	0.0302	0.0302	0.0000	110.3348	110.3348	0.0357	0.0000	111.2269

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0163	0.4923	0.0952	1.1700e-003	0.0142	2.7600e-003	0.0170	4.6400e-003	2.6400e-003	7.2800e-003	0.0000	110.6478	110.6478	8.8400e-003	0.0000	110.8688
Worker	0.0682	0.0516	0.4913	1.7300e-003	0.0735	1.1400e-003	0.0746	0.0215	1.0500e-003	0.0226	0.0000	156.6832	156.6832	3.7900e-003	0.0000	156.7781
Total	0.0844	0.5438	0.5865	2.9000e-003	0.0877	3.9000e-003	0.0916	0.0262	3.6900e-003	0.0299	0.0000	267.3311	267.3311	0.0126	0.0000	267.6469

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0207	0.2690	0.2017	1.0700e-003	0.0555	1.1400e-003	0.0567	0.0149	1.0800e-003	0.0160	0.0000	99.3513	99.3513	7.2200e-003	0.0000	99.5317
Unmitigated	0.0207	0.2690	0.2017	1.0700e-003	0.0555	1.1400e-003	0.0567	0.0149	1.0800e-003	0.0160	0.0000	99.3513	99.3513	7.2200e-003	0.0000	99.5317

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	49.20	49.20	49.20	143,640	143,640
Total	49.20	49.20	49.20	143,640	143,640

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No	133200	42.4404	1.7500e-003	3.6000e-004	42.5922
Total		42.4404	1.7500e-003	3.6000e-004	42.5922

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No	133200	42.4404	1.7500e-003	3.6000e-004	42.5922
Total		42.4404	1.7500e-003	3.6000e-004	42.5922

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2026	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004
Unmitigated	0.2026	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1562					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004
Total	0.2026	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1562					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004
Total	0.2026	0.0000	3.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.1000e-004	7.1000e-004	0.0000	0.0000	7.6000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e

Category	MT/yr			
Mitigated	52.8830	0.3722	1.7100e-003	62.6954
Unmitigated	52.8830	0.3722	1.7100e-003	62.6954

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No	1.629 / 13.03	52.8830	0.3722	1.7100e-003	62.6954
Total		52.8830	0.3722	1.7100e-003	62.6954

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No	1.629 / 13.03	52.8830	0.3722	1.7100e-003	62.6954
Total		52.8830	0.3722	1.7100e-003	62.6954

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.6325	0.4511	0.0000	18.9091
Unmitigated	7.6325	0.4511	0.0000	18.9091

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No	37.6	7.6325	0.4511	0.0000	18.9091
Total		7.6325	0.4511	0.0000	18.9091

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No	37.6	7.6325	0.4511	0.0000	18.9091
Total		7.6325	0.4511	0.0000	18.9091

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	2	8.00	12	89	0.20	Diesel
Tractors/Loaders/Backhoes	2	8.00	12	97	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	1.7300e-003	0.0156	0.0142	2.0000e-005		1.1600e-003	1.1600e-003		1.0700e-003	1.0700e-003	0.0000	1.6115	1.6115	5.2000e-004	0.0000	1.6245
Tractors/Loaders/Backhoes	2.5100e-003	0.0253	0.0274	4.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	3.2742	3.2742	1.0600e-003	0.0000	3.3007
Total	4.2400e-003	0.0408	0.0415	6.0000e-005		2.7600e-003	2.7600e-003		2.5400e-003	2.5400e-003	0.0000	4.8857	4.8857	1.5800e-003	0.0000	4.9252

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Edwards Airforce Base - Kern-Mojave Desert County, Summer

**Edwards Airforce Base
Kern-Mojave Desert County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	40.00	1000sqft	4,000.00	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	32
Climate Zone	7			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction State Date July 2018. Operational year 2020.

Land Use - Maximum of 40,000 square foot operational warehouse, operational and maintenance building. Lot area = 4,000 acres.

Construction Phase - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Trips and VMT - VMT and trip length information based on applicant provided information.

On-road Fugitive Dust - Vehicle and vendor trips would travel 0.27 miles on unpaved roads each trip. Haul trucks would travel 2.5 miles on unpaved roads each trip.

Grading - CalEEMod default values.

tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.60
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	RoadSiltLoading	0.10	0.03
tblOnRoadDust	RoadSiltLoading	0.10	0.03
tblOnRoadDust	VendorPercentPave	100.00	96.30
tblOnRoadDust	WorkerPercentPave	100.00	99.90
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	114.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,200.00
tblTripsAndVMT	VendorTripNumber	0.00	843.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripNumber	483.00	1,100.00

tblTripsAndVMT	WorkerTripNumber	20.00	116.00
tblVehicleTrips	ST_TR	1.68	1.23
tblVehicleTrips	SU_TR	1.68	1.23
tblVehicleTrips	WD_TR	1.68	1.23
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,250,000.00	1,629,000.00
tblWater	OutdoorWaterUseRate	0.00	13,030,000.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	32.1323	242.5439	245.3079	0.6572	532.7438	9.8133	542.5571	56.2111	9.1714	65.3825	0.0000	66,425.8325	66,425.8325	5.8210	0.0000	66,571.3571
2019	31.9226	247.3759	251.0332	0.7132	467.2422	9.6711	476.9133	49.8666	9.0224	58.8890	0.0000	71,880.2513	71,880.2513	6.4510	0.0000	72,041.5268
2020	28.5872	222.4303	234.1180	0.7018	537.2163	8.4628	545.6790	56.9236	7.8828	64.8064	0.0000	70,428.3278	70,428.3278	6.2360	0.0000	70,584.2287
Maximum	32.1323	247.3759	251.0332	0.7132	537.2163	9.8133	545.6790	56.9236	9.1714	65.3825	0.0000	71,880.2513	71,880.2513	6.4510	0.0000	72,041.5268

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	22.0322	177.4248	255.4255	0.6572	157.8250	6.0325	163.8575	18.7760	5.9495	24.7255	0.0000	66,425.8325	66,425.8325	5.8210	0.0000	66,571.3571
2019	21.9764	188.1322	264.0445	0.7132	140.3868	6.3208	146.7075	17.2300	6.2442	23.4742	0.0000	71,880.2513	71,880.2513	6.4510	0.0000	72,041.5267
2020	19.6156	174.7009	248.2643	0.7018	160.0358	5.8142	165.8500	19.2626	5.7597	25.0223	0.0000	70,428.3278	70,428.3278	6.2360	0.0000	70,584.2287
Maximum	22.0322	188.1322	264.0445	0.7132	160.0358	6.3208	165.8500	19.2626	6.2442	25.0223	0.0000	71,880.2513	71,880.2513	6.4510	0.0000	72,041.5267

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	31.32	24.16	-5.10	0.00	70.19	34.99	69.56	66.09	31.15	61.27	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1328	1.4556	1.2116	6.1900e-003	0.3107	6.2000e-003	0.3169	0.0835	5.8700e-003	0.0894		634.8732	634.8732	0.0426		635.9391
Offroad	0.7070	6.8053	6.9199	9.2700e-003		0.4596	0.4596		0.4228	0.4228		897.5987	897.5987	0.2903		904.8562
Total	1.9502	8.2610	8.1357	0.0155	0.3107	0.4658	0.7765	0.0835	0.4287	0.5122		1,532.4806	1,532.4806	0.3330	0.0000	1,540.8047

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1328	1.4556	1.2116	6.1900e-003	0.3107	6.2000e-003	0.3169	0.0835	5.8700e-003	0.0894		634.8732	634.8732	0.0426		635.9391
Offroad	0.7070	6.8053	6.9199	9.2700e-003		0.4596	0.4596		0.4228	0.4228		897.5987	897.5987	0.2903		904.8562
Total	1.9502	8.2610	8.1357	0.0155	0.3107	0.4658	0.7765	0.0835	0.4287	0.5122		1,532.4806	1,532.4806	0.3330	0.0000	1,540.8047

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Solar Facility Construction	Grading	7/2/2018	6/26/2020	5	520	
2	Gen-Tie Construction	Grading	10/1/2019	7/6/2020	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Solar Facility Construction	Excavators	9	1.10	158	0.38
Solar Facility Construction	Forklifts	25	0.50	89	0.20
Solar Facility Construction	Generator Sets	4	8.00	84	0.74
Solar Facility Construction	Graders	0	0.00	187	0.41
Solar Facility Construction	Off-Highway Tractors	3	0.30	124	0.44
Solar Facility Construction	Off-Highway Tractors	3	0.50	124	0.44
Solar Facility Construction	Other Construction Equipment	30	2.00	172	0.42
Solar Facility Construction	Other Construction Equipment	20	1.10	172	0.42
Solar Facility Construction	Other Construction Equipment	28	0.80	172	0.42
Solar Facility Construction	Other Material Handling Equipment	10	1.50	168	0.40
Solar Facility Construction	Rubber Tired Loaders	2	1.40	203	0.36
Solar Facility Construction	Scrapers	4	1.60	367	0.48
Solar Facility Construction	Tractors/Loaders/Backhoes	35	0.70	97	0.37
Solar Facility Construction	Trenchers	20	1.20	78	0.50
Gen-Tie Construction	Cranes	1	1.60	231	0.29
Gen-Tie Construction	Excavators	1	6.00	158	0.38
Gen-Tie Construction	Graders	0	0.00	187	0.41
Gen-Tie Construction	Other Construction Equipment	2	2.00	172	0.42
Gen-Tie Construction	Other Construction Equipment	2	4.00	172	0.42
Gen-Tie Construction	Other Material Handling Equipment	1	4.00	168	0.40
Gen-Tie Construction	Rubber Tired Dozers	0	0.00	247	0.40
Gen-Tie Construction	Scrapers	0	0.00	367	0.48
Gen-Tie Construction	Tractors/Loaders/Backhoes	1	4.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Solar Facility Construction	193	1,100.00	843.00	5,200.00	30.00	7.30	114.00	LD_Mix	MHDT	HHDT
Gen-Tie Construction	8	116.00	60.00	0.00	30.00	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Solar Facility Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8484	0.0000	0.8484	0.0916	0.0000	0.0916			0.0000			0.0000
Off-Road	13.9717	143.6976	106.0246	0.1619		8.0339	8.0339		7.4751	7.4751		16,137.7808	16,137.7808	4.4279		16,248.4775
Total	13.9717	143.6976	106.0246	0.1619	0.8484	8.0339	8.8823	0.0916	7.4751	7.5667		16,137.7808	16,137.7808	4.4279		16,248.4775

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3844	11.8338	1.8653	0.0402	134.4172	0.0637	134.4808	13.6202	0.0609	13.6811		4,214.6532	4,214.6532	0.0738		4,216.4977
Vendor	5.0577	78.1488	29.4486	0.1658	338.3602	1.5462	339.9064	34.5690	1.4792	36.0482		17,262.6882	17,262.6882	0.4324		17,273.4987
Worker	12.7185	8.8638	107.9695	0.2893	59.1181	0.1694	59.2875	7.9303	0.1562	8.0865		28,810.7103	28,810.7103	0.8869		28,832.8832
Total	18.1606	98.8463	139.2834	0.4953	531.8954	1.7793	533.6747	56.1195	1.6963	57.8158		50,288.0517	50,288.0517	1.3931		50,322.8796

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3818	0.0000	0.3818	0.0412	0.0000	0.0412			0.0000			0.0000
Off-Road	3.8715	78.5784	116.1421	0.1619		4.2532	4.2532		4.2532	4.2532	0.0000	16,137.7808	16,137.7808	4.4279		16,248.4775
Total	3.8715	78.5784	116.1421	0.1619	0.3818	4.2532	4.6350	0.0412	4.2532	4.2944	0.0000	16,137.7808	16,137.7808	4.4279		16,248.4775

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3844	11.8338	1.8653	0.0402	37.9208	0.0637	37.9844	3.9862	0.0609	4.0471		4,214.6532	4,214.6532	0.0738		4,216.4977
Vendor	5.0577	78.1488	29.4486	0.1658	95.5894	1.5462	97.1356	10.3311	1.4792	11.8103		17,262.6882	17,262.6882	0.4324		17,273.4987
Worker	12.7185	8.8638	107.9695	0.2893	23.9330	0.1694	24.1025	4.4175	0.1562	4.5737		28,810.7103	28,810.7103	0.8869		28,832.8832
Total	18.1606	98.8463	139.2834	0.4953	157.4432	1.7793	159.2225	18.7348	1.6963	20.4311		50,288.0517	50,288.0517	1.3931		50,322.8796

3.2 Solar Facility Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.8484	0.0000	0.8484	0.0916	0.0000	0.0916			0.0000			0.0000
Off-Road	12.9139	132.3913	104.9506	0.1619		7.3001	7.3001		6.7883	6.7883		15,921.65 25	15,921.652 5	4.4068		16,031.82 32
Total	12.9139	132.3913	104.9506	0.1619	0.8484	7.3001	8.1485	0.0916	6.7883	6.8799		15,921.65 25	15,921.652 5	4.4068		16,031.82 32

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3683	11.0779	1.8280	0.0397	67.5880	0.0579	67.6459	6.8804	0.0554	6.9359		4,167.297 8	4,167.2978	0.0706		4,169.062 2
Vendor	4.3854	72.9775	25.5246	0.1652	338.3602	1.3155	339.6756	34.5690	1.2584	35.8274		17,204.34 31	17,204.343 1	0.3776		17,213.78 30
Worker	11.3968	7.7143	95.0300	0.2803	59.1181	0.1658	59.2838	7.9303	0.1527	8.0830		27,923.34 28	27,923.342 8	0.7782		27,942.79 88
Total	16.1506	91.7697	122.3826	0.4852	465.0662	1.5392	466.6053	49.3797	1.4666	50.8463		49,294.98 36	49,294.983 6	1.2264		49,325.64 40

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3818	0.0000	0.3818	0.0412	0.0000	0.0412			0.0000			0.0000
Off-Road	3.8715	78.5784	116.1421	0.1619		4.2532	4.2532		4.2532	4.2532	0.0000	15,921.65 25	15,921.652 5	4.4068		16,031.82 32

Total	3.8715	78.5784	116.1421	0.1619	0.3818	4.2532	4.6350	0.0412	4.2532	4.2944	0.0000	15,921.65 25	15,921.652 5	4.4068		16,031.82 32
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3683	11.0779	1.8280	0.0397	19.1549	0.0579	19.2128	2.0449	0.0554	2.1004		4,167.297 8	4,167.2978	0.0706		4,169.062 2
Vendor	4.3854	72.9775	25.5246	0.1652	95.5894	1.3155	96.9049	10.3311	1.2584	11.5895		17,204.34 31	17,204.343 1	0.3776		17,213.78 30
Worker	11.3968	7.7143	95.0300	0.2803	23.9330	0.1658	24.0988	4.4175	0.1527	4.5702		27,923.34 28	27,923.342 8	0.7782		27,942.79 88
Total	16.1506	91.7697	122.3826	0.4852	138.6773	1.5392	140.2165	16.7935	1.4666	18.2601		49,294.98 36	49,294.983 6	1.2264		49,325.64 40

3.2 Solar Facility Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8484	0.0000	0.8484	0.0916	0.0000	0.0916			0.0000			0.0000
Off-Road	12.0357	122.1730	103.9076	0.1619		6.6694	6.6694		6.1986	6.1986		15,629.60 08	15,629.600 8	4.3893		15,739.33 20
Total	12.0357	122.1730	103.9076	0.1619	0.8484	6.6694	7.5178	0.0916	6.1986	6.2902		15,629.60 08	15,629.600 8	4.3893		15,739.33 20

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3433	10.2082	1.7529	0.0392	137.5620	0.0486	137.6106	13.9374	0.0465	13.9839		4,116.4506	4,116.4506	0.0662		4,118.1059
Vendor	3.2383	62.1036	21.0703	0.1645	338.3602	0.8419	339.2021	34.5690	0.8054	35.3744		17,137.3116	17,137.3116	0.3044		17,144.9226
Worker	10.3676	6.7915	85.0263	0.2712	59.1181	0.1617	59.2798	7.9303	0.1489	8.0792		27,032.0759	27,032.0759	0.6795		27,049.0626
Total	13.9492	79.1034	107.8495	0.4749	535.0402	1.0522	536.0924	56.4367	1.0008	57.4375		48,285.8381	48,285.8381	1.0501		48,312.0911

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3818	0.0000	0.3818	0.0412	0.0000	0.0412			0.0000			0.0000
Off-Road	3.8715	78.5784	116.1421	0.1619		4.2532	4.2532		4.2532	4.2532	0.0000	15,629.6008	15,629.6008	4.3893		15,739.3320
Total	3.8715	78.5784	116.1421	0.1619	0.3818	4.2532	4.6350	0.0412	4.2532	4.2944	0.0000	15,629.6008	15,629.6008	4.3893		15,739.3320

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.3433	10.2082	1.7529	0.0392	38.8040	0.0486	38.8526	4.0776	0.0465	4.1241		4,116.4506	4,116.4506	0.0662		4,118.1059
Vendor	3.2383	62.1036	21.0703	0.1645	95.5894	0.8419	96.4313	10.3311	0.8054	11.1365		17,137.316	17,137.316	0.3044		17,144.926
Worker	10.3676	6.7915	85.0263	0.2712	23.9330	0.1617	24.0947	4.4175	0.1489	4.5664		27,032.0759	27,032.0759	0.6795		27,049.066
Total	13.9492	79.1034	107.8495	0.4749	158.3264	1.0522	159.3786	18.8262	1.0008	19.8270		48,285.8381	48,285.8381	1.0501		48,312.0911

3.3 Gen-Tie Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3660	14.4975	12.1680	0.0187		0.7544	0.7544		0.6940	0.6940		1,855.6264	1,855.6264	0.5871		1,870.3039
Total	1.3660	14.4975	12.1680	0.0187	0.0000	0.7544	0.7544	0.0000	0.6940	0.6940		1,855.6264	1,855.6264	0.5871		1,870.3039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2904	7.9039	1.5107	0.0178	0.2141	0.0600	0.2740	0.0698	0.0574	0.1272		1,863.3454	1,863.3454	0.1486		1,867.0606
Worker	1.2019	0.8135	10.0214	0.0296	1.1136	0.0175	1.1311	0.3254	0.0161	0.3415		2,944.6434	2,944.6434	0.0821		2,946.6951
Total	1.4922	8.7174	11.5321	0.0474	1.3277	0.0775	1.4051	0.3953	0.0735	0.4687		4,807.9888	4,807.9888	0.2307		4,813.7558

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	0.4621	9.0666	13.9878	0.0187		0.4509	0.4509		0.4509	0.4509	0.0000	1,855.6264	1,855.6264	0.5871			1,870.3039
Total	0.4621	9.0666	13.9878	0.0187	0.0000	0.4509	0.4509	0.0000	0.4509	0.4509	0.0000	1,855.6264	1,855.6264	0.5871			1,870.3039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2904	7.9039	1.5107	0.0178	0.2141	0.0600	0.2740	0.0698	0.0574	0.1272		1,863.3454	1,863.3454	0.1486			1,867.0606
Worker	1.2019	0.8135	10.0214	0.0296	1.1136	0.0175	1.1311	0.3254	0.0161	0.3415		2,944.6434	2,944.6434	0.0821			2,946.6951
Total	1.4922	8.7174	11.5321	0.0474	1.3277	0.0775	1.4051	0.3953	0.0735	0.4687		4,807.9888	4,807.9888	0.2307			4,813.7558

3.3 Gen-Tie Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2695	13.2014	12.0760	0.0187		0.6833	0.6833		0.6286	0.6286		1,815.2755	1,815.2755	0.5871		1,829.9529
Total	1.2695	13.2014	12.0760	0.0187	0.0000	0.6833	0.6833	0.0000	0.6286	0.6286		1,815.2755	1,815.2755	0.5871		1,829.9529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2395	7.2363	1.3185	0.0177	0.2141	0.0409	0.2549	0.0698	0.0391	0.1089		1,846.9582	1,846.9582	0.1379		1,850.4061
Worker	1.0933	0.7162	8.9664	0.0286	1.1136	0.0171	1.1307	0.3254	0.0157	0.3411		2,850.6553	2,850.6553	0.0717		2,852.4466
Total	1.3328	7.9525	10.2849	0.0463	1.3277	0.0579	1.3856	0.3953	0.0548	0.4500		4,697.6135	4,697.6135	0.2096		4,702.8527

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Off-Road	0.4621	9.0666	13.9878	0.0187		0.4509	0.4509		0.4509	0.4509	0.0000	1,815.2755	1,815.2755	0.5871		1,829.9529
Total	0.4621	9.0666	13.9878	0.0187	0.0000	0.4509	0.4509	0.0000	0.4509	0.4509	0.0000	1,815.2755	1,815.2755	0.5871		1,829.9529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2395	7.2363	1.3185	0.0177	0.2141	0.0409	0.2549	0.0698	0.0391	0.1089		1,846.9582	1,846.9582	0.1379		1,850.4061
Worker	1.0933	0.7162	8.9664	0.0286	1.1136	0.0171	1.1307	0.3254	0.0157	0.3411		2,850.6553	2,850.6553	0.0717		2,852.4466
Total	1.3328	7.9525	10.2849	0.0463	1.3277	0.0579	1.3856	0.3953	0.0548	0.4500		4,697.6135	4,697.6135	0.2096		4,702.8527

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1328	1.4556	1.2116	6.1900e-003	0.3107	6.2000e-003	0.3169	0.0835	5.8700e-003	0.0894		634.8732	634.8732	0.0426		635.9391
Unmitigated	0.1328	1.4556	1.2116	6.1900e-003	0.3107	6.2000e-003	0.3169	0.0835	5.8700e-003	0.0894		634.8732	634.8732	0.0426		635.9391

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	49.20	49.20	49.20	143,640	143,640
Total	49.20	49.20	49.20	143,640	143,640

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.472669	0.031291	0.166276	0.125679	0.021211	0.006775	0.020722	0.144029	0.001634	0.001785	0.006011	0.000972	0.000946

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Fuel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Fuel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Unmitigated	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2540					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8560					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Total	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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SubCategory	lb/day								lb/day					
Architectural Coating	0.2540				0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	0.8560				0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.1100e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005	9.3400e-003
Total	1.1104	4.0000e-005	4.1100e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005	9.3400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	2	8.00	12	89	0.20	Diesel
Tractors/Loaders/Backhoes	2	8.00	12	97	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	0.2880	2.5950	2.3605	3.0500e-003		0.1933	0.1933		0.1779	0.1779		296.0617	296.0617	0.0958		298.4555
Tractors/Loaders/Backhoes	0.4190	4.2103	4.5594	6.2100e-003		0.2662	0.2662		0.2449	0.2449		601.5370	601.5370	0.1946		606.4008

Total	0.7070	6.8053	6.9199	9.2600e-003		0.4596	0.4596		0.4228	0.4228		897.5987	897.5987	0.2903		904.8562
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Edwards Airforce Base - Kern-Mojave Desert County, Winter

**Edwards Airforce Base
Kern-Mojave Desert County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	40.00	1000sqft	4,000.00	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	32
Climate Zone	7			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction State Date July 2018. Operational year 2020.

Land Use - Maximum of 40,000 square foot operational warehouse, operational and maintenance building. Lot area = 4,000 acres.

Construction Phase - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Off-road Equipment - Construction phasing based on applicant provided information.

Trips and VMT - VMT and trip length information based on applicant provided information.

On-road Fugitive Dust - Vehicle and vendor trips would travel 0.27 miles on unpaved roads each trip. Haul trucks would travel 2.5 miles on unpaved roads each trip.

Grading - CalEEMod default values.

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	15,500.00	520.00
tblConstructionPhase	NumDays	15,500.00	200.00
tblLandUse	LotAcreage	0.92	4,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	35.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	25.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	28.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction

tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	PhaseName		Solar Facility Construction
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.60
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	RoadSiltLoading	0.10	0.03
tblOnRoadDust	RoadSiltLoading	0.10	0.03
tblOnRoadDust	VendorPercentPave	100.00	96.30
tblOnRoadDust	WorkerPercentPave	100.00	99.90
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	114.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,200.00
tblTripsAndVMT	VendorTripNumber	0.00	843.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	30.00

tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripNumber	483.00	1,100.00
tblTripsAndVMT	WorkerTripNumber	20.00	116.00
tblVehicleTrips	ST_TR	1.68	1.23
tblVehicleTrips	SU_TR	1.68	1.23
tblVehicleTrips	WD_TR	1.68	1.23
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,250,000.00	1,629,000.00
tblWater	OutdoorWaterUseRate	0.00	13,030,000.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	32.5789	248.3258	224.2034	0.6184	532.7438	9.8218	542.5656	56.2111	9.1796	65.3907	0.0000	62,569.6794	62,569.6794	5.6998	0.0000	62,712.1749
2019	32.3833	252.7563	229.9673	0.6710	467.2422	9.6799	476.9221	49.8666	9.0308	58.8974	0.0000	67,685.0791	67,685.0791	6.3480	0.0000	67,843.7788
2020	29.0415	226.8231	214.9410	0.6610	537.2163	8.4696	545.6858	56.9236	7.8894	64.8129	0.0000	66,362.3132	66,362.3132	6.1468	0.0000	66,515.9828
Maximum	32.5789	252.7563	229.9673	0.6710	537.2163	9.8218	545.6858	56.9236	9.1796	65.3907	0.0000	67,685.0791	67,685.0791	6.3480	0.0000	67,843.7788

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	22.4788	183.2067	234.3209	0.6184	157.8250	6.0411	163.8661	18.7760	5.9577	24.7337	0.0000	62,569.6794	62,569.6794	5.6998	0.0000	62,712.1749
2019	22.4372	193.5127	242.9786	0.6710	140.3868	6.3295	146.7163	17.2300	6.2526	23.4826	0.0000	67,685.0790	67,685.0790	6.3480	0.0000	67,843.7788
2020	20.0699	179.0937	229.0873	0.6610	160.0358	5.8210	165.8568	19.2626	5.7662	25.0288	0.0000	66,362.3132	66,362.3132	6.1468	0.0000	66,515.9828
Maximum	22.4788	193.5127	242.9786	0.6710	160.0358	6.3295	165.8568	19.2626	6.2526	25.0288	0.0000	67,685.0790	67,685.0790	6.3480	0.0000	67,843.7788

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	30.87	23.64	-5.57	0.00	70.19	34.96	69.56	66.09	31.12	61.27	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1108	1.4754	1.1270	5.6900e-003	0.3107	6.3200e-003	0.3171	0.0835	5.9900e-003	0.0895		584.0802	584.0802	0.0460		585.2304
Offroad	0.7070	6.8053	6.9199	9.2700e-003		0.4596	0.4596		0.4228	0.4228		897.5987	897.5987	0.2903		904.8562
Total	1.9282	8.2807	8.0510	0.0150	0.3107	0.4659	0.7766	0.0835	0.4288	0.5123		1,481.6876	1,481.6876	0.3363	0.0000	1,490.0960

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1108	1.4754	1.1270	5.6900e-003	0.3107	6.3200e-003	0.3171	0.0835	5.9900e-003	0.0895		584.0802	584.0802	0.0460		585.2304
Offroad	0.7070	6.8053	6.9199	9.2700e-003		0.4596	0.4596		0.4228	0.4228		897.5987	897.5987	0.2903		904.8562
Total	1.9282	8.2807	8.0510	0.0150	0.3107	0.4659	0.7766	0.0835	0.4288	0.5123		1,481.6876	1,481.6876	0.3363	0.0000	1,490.0960

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Solar Facility Construction	Grading	7/2/2018	6/26/2020	5	520	
2	Gen-Tie Construction	Grading	10/1/2019	7/6/2020	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Solar Facility Construction	Excavators	9	1.10	158	0.38
Solar Facility Construction	Forklifts	25	0.50	89	0.20
Solar Facility Construction	Generator Sets	4	8.00	84	0.74
Solar Facility Construction	Graders	0	0.00	187	0.41
Solar Facility Construction	Off-Highway Tractors	3	0.30	124	0.44
Solar Facility Construction	Off-Highway Tractors	3	0.50	124	0.44
Solar Facility Construction	Other Construction Equipment	30	2.00	172	0.42
Solar Facility Construction	Other Construction Equipment	20	1.10	172	0.42
Solar Facility Construction	Other Construction Equipment	28	0.80	172	0.42
Solar Facility Construction	Other Material Handling Equipment	10	1.50	168	0.40
Solar Facility Construction	Rubber Tired Loaders	2	1.40	203	0.36
Solar Facility Construction	Scrapers	4	1.60	367	0.48
Solar Facility Construction	Tractors/Loaders/Backhoes	35	0.70	97	0.37
Solar Facility Construction	Trenchers	20	1.20	78	0.50
Gen-Tie Construction	Cranes	1	1.60	231	0.29
Gen-Tie Construction	Excavators	1	6.00	158	0.38
Gen-Tie Construction	Graders	0	0.00	187	0.41
Gen-Tie Construction	Other Construction Equipment	2	2.00	172	0.42
Gen-Tie Construction	Other Construction Equipment	2	4.00	172	0.42
Gen-Tie Construction	Other Material Handling Equipment	1	4.00	168	0.40
Gen-Tie Construction	Rubber Tired Dozers	0	0.00	247	0.40
Gen-Tie Construction	Scrapers	0	0.00	367	0.48
Gen-Tie Construction	Tractors/Loaders/Backhoes	1	4.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Solar Facility Construction	193	1,100.00	843.00	5,200.00	30.00	7.30	114.00	LD_Mix	MHDT	HHDT
Gen-Tie Construction	8	116.00	60.00	0.00	30.00	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Solar Facility Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8484	0.0000	0.8484	0.0916	0.0000	0.0916			0.0000			0.0000
Off-Road	13.9717	143.6976	106.0246	0.1619		8.0339	8.0339		7.4751	7.4751		16,137.7808	16,137.7808	4.4279		16,248.4775
Total	13.9717	143.6976	106.0246	0.1619	0.8484	8.0339	8.8823	0.0916	7.4751	7.5667		16,137.7808	16,137.7808	4.4279		16,248.4775

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3875	12.5343	1.9129	0.0400	134.4172	0.0639	134.4811	13.6202	0.0611	13.6814		4,193.8879	4,193.8879	0.0799		4,195.8856
Vendor	5.1486	81.9303	31.8980	0.1654	338.3602	1.5546	339.9147	34.5690	1.4872	36.0562		17,216.8737	17,216.8737	0.4491		17,228.1022
Worker	13.0711	10.1637	84.3680	0.2511	59.1181	0.1694	59.2875	7.9303	0.1562	8.0865		25,021.1371	25,021.1371	0.7429		25,039.7096

Total	18.6072	104.6283	118.1788	0.4565	531.8954	1.7879	533.6833	56.1195	1.7045	57.8240		46,431.89	46,431.898	1.2720		46,463.69
												86	6			74

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3818	0.0000	0.3818	0.0412	0.0000	0.0412			0.0000			0.0000
Off-Road	3.8715	78.5784	116.1421	0.1619		4.2532	4.2532		4.2532	4.2532	0.0000	16,137.7808	16,137.7808	4.4279		16,248.4775
Total	3.8715	78.5784	116.1421	0.1619	0.3818	4.2532	4.6350	0.0412	4.2532	4.2944	0.0000	16,137.7808	16,137.7808	4.4279		16,248.4775

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3875	12.5343	1.9129	0.0400	37.9208	0.0639	37.9847	3.9862	0.0611	4.0473		4,193.8879	4,193.8879	0.0799		4,195.8856
Vendor	5.1486	81.9303	31.8980	0.1654	95.5894	1.5546	97.1440	10.3311	1.4872	11.8183		17,216.8737	17,216.8737	0.4491		17,228.1022
Worker	13.0711	10.1637	84.3680	0.2511	23.9330	0.1694	24.1025	4.4175	0.1562	4.5737		25,021.1371	25,021.1371	0.7429		25,039.7096
Total	18.6072	104.6283	118.1788	0.4565	157.4432	1.7879	159.2311	18.7348	1.7045	20.4393		46,431.8986	46,431.8986	1.2720		46,463.6974

3.2 Solar Facility Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8484	0.0000	0.8484	0.0916	0.0000	0.0916			0.0000			0.0000
Off-Road	12.9139	132.3913	104.9506	0.1619		7.3001	7.3001		6.7883	6.7883		15,921.6525	15,921.6525	4.4068		16,031.8232
Total	12.9139	132.3913	104.9506	0.1619	0.8484	7.3001	8.1485	0.0916	6.7883	6.8799		15,921.6525	15,921.6525	4.4068		16,031.8232

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3712	11.7312	1.8729	0.0395	67.5880	0.0582	67.6461	6.8804	0.0556	6.9361		4,146.6684	4,146.6684	0.0765		4,148.5810
Vendor	4.4653	76.3531	27.7939	0.1648	338.3602	1.3231	339.6833	34.5690	1.2657	35.8347		17,158.0709	17,158.0709	0.3933		17,167.9043
Worker	11.7278	8.8370	73.6502	0.2432	59.1181	0.1658	59.2838	7.9303	0.1527	8.0830		24,246.3615	24,246.3615	0.6486		24,262.5772
Total	16.5644	96.9213	103.3170	0.4475	465.0662	1.5470	466.6132	49.3797	1.4741	50.8538		45,551.1007	45,551.1007	1.1185		45,579.0626

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.3818	0.0000	0.3818	0.0412	0.0000	0.0412			0.0000			0.0000
Off-Road	3.8715	78.5784	116.1421	0.1619		4.2532	4.2532		4.2532	4.2532	0.0000	15,921.6525	15,921.6525	4.4068		16,031.8232
Total	3.8715	78.5784	116.1421	0.1619	0.3818	4.2532	4.6350	0.0412	4.2532	4.2944	0.0000	15,921.6525	15,921.6525	4.4068		16,031.8232

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3712	11.7312	1.8729	0.0395	19.1549	0.0582	19.2131	2.0449	0.0556	2.1006		4,146.6684	4,146.6684	0.0765		4,148.5810
Vendor	4.4653	76.3531	27.7939	0.1648	95.5894	1.3231	96.9125	10.3311	1.2657	11.5969		17,158.0709	17,158.0709	0.3933		17,167.9043
Worker	11.7278	8.8370	73.6502	0.2432	23.9330	0.1658	24.0988	4.4175	0.1527	4.5702		24,246.3615	24,246.3615	0.6486		24,262.5772
Total	16.5644	96.9213	103.3170	0.4475	138.6773	1.5470	140.2244	16.7935	1.4741	18.2676		45,551.1007	45,551.1007	1.1185		45,579.0626

3.2 Solar Facility Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8484	0.0000	0.8484	0.0916	0.0000	0.0916			0.0000			0.0000
Off-Road	12.0357	122.1730	103.9076	0.1619		6.6694	6.6694		6.1986	6.1986		15,629.6008	15,629.6008	4.3893		15,739.3320
Total	12.0357	122.1730	103.9076	0.1619	0.8484	6.6694	7.5178	0.0916	6.1986	6.2902		15,629.6008	15,629.6008	4.3893		15,739.3320

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3460	10.8063	1.7943	0.0391	137.5620	0.0488	137.6108	13.9374	0.0467	13.9841		4,095.9443	4,095.9443	0.0718		4,097.7403
Vendor	3.3102	64.7333	23.1382	0.1641	338.3602	0.8478	339.2080	34.5690	0.8110	35.3800		17,091.1409	17,091.1409	0.3193		17,099.1243
Worker	10.7011	7.7722	65.5584	0.2353	59.1181	0.1617	59.2798	7.9303	0.1489	8.0792		23,471.3907	23,471.3907	0.5642		23,485.4963
Total	14.3573	83.3118	90.4909	0.4385	535.0402	1.0583	536.0985	56.4367	1.0066	57.4433		44,658.4759	44,658.4759	0.9554		44,682.3609

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3818	0.0000	0.3818	0.0412	0.0000	0.0412			0.0000			0.0000
Off-Road	3.8715	78.5784	116.1421	0.1619		4.2532	4.2532		4.2532	4.2532	0.0000	15,629.6008	15,629.6008	4.3893		15,739.3320
Total	3.8715	78.5784	116.1421	0.1619	0.3818	4.2532	4.6350	0.0412	4.2532	4.2944	0.0000	15,629.6008	15,629.6008	4.3893		15,739.3320

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Hauling	0.3460	10.8063	1.7943	0.0391	38.8040	0.0488	38.8527	4.0776	0.0467	4.1242	4,095.9443	4,095.9443	0.0718	4,097.7403
Vendor	3.3102	64.7333	23.1382	0.1641	95.5894	0.8478	96.4372	10.3311	0.8110	11.1421	17,091.1409	17,091.1409	0.3193	17,099.1243
Worker	10.7011	7.7722	65.5584	0.2353	23.9330	0.1617	24.0947	4.4175	0.1489	4.5664	23,471.3907	23,471.3907	0.5642	23,485.4963
Total	14.3573	83.3118	90.4909	0.4385	158.3264	1.0583	159.3847	18.8262	1.0066	19.8328	44,658.4759	44,658.4759	0.9554	44,682.3609

3.3 Gen-Tie Constrution - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3660	14.4975	12.1680	0.0187		0.7544	0.7544		0.6940	0.6940	1,855.6264	1,855.6264	1,855.6264	0.5871		1,870.3039
Total	1.3660	14.4975	12.1680	0.0187	0.0000	0.7544	0.7544	0.0000	0.6940	0.6940	1,855.6264	1,855.6264	1,855.6264	0.5871		1,870.3039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3024	8.0144	1.7650	0.0172	0.2141	0.0609	0.2750	0.0698	0.0583	0.1281	1,799.8104	1,799.8104	1,799.8104	0.1672		1,803.9901
Worker	1.2368	0.9319	7.7668	0.0257	1.1136	0.0175	1.1311	0.3254	0.0161	0.3415	2,556.8890	2,556.8890	2,556.8890	0.0684		2,558.5991

Total	1.5392	8.9463	9.5317	0.0429	1.3277	0.0784	1.4060	0.3953	0.0744	0.4696		4,356.699	4,356.6994	0.2356		4,362.589
												4				2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4621	9.0666	13.9878	0.0187		0.4509	0.4509		0.4509	0.4509	0.0000	1,855.6264	1,855.6264	0.5871		1,870.3039
Total	0.4621	9.0666	13.9878	0.0187	0.0000	0.4509	0.4509	0.0000	0.4509	0.4509	0.0000	1,855.6264	1,855.6264	0.5871		1,870.3039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3024	8.0144	1.7650	0.0172	0.2141	0.0609	0.2750	0.0698	0.0583	0.1281		1,799.8104	1,799.8104	0.1672		1,803.9901
Worker	1.2368	0.9319	7.7668	0.0257	1.1136	0.0175	1.1311	0.3254	0.0161	0.3415		2,556.8890	2,556.8890	0.0684		2,558.5991
Total	1.5392	8.9463	9.5317	0.0429	1.3277	0.0784	1.4060	0.3953	0.0744	0.4696		4,356.6994	4,356.6994	0.2356		4,362.5892

3.3 Gen-Tie Constrution - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2695	13.2014	12.0760	0.0187		0.6833	0.6833		0.6286	0.6286		1,815.2755	1,815.2755	0.5871		1,829.9529
Total	1.2695	13.2014	12.0760	0.0187	0.0000	0.6833	0.6833	0.0000	0.6286	0.6286		1,815.2755	1,815.2755	0.5871		1,829.9529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2506	7.3172	1.5531	0.0171	0.2141	0.0416	0.2556	0.0698	0.0398	0.1096		1,783.7962	1,783.7962	0.1555		1,787.6846
Worker	1.1285	0.8196	6.9134	0.0248	1.1136	0.0171	1.1307	0.3254	0.0157	0.3411		2,475.1648	2,475.1648	0.0595		2,476.6523
Total	1.3790	8.1368	8.4665	0.0419	1.3277	0.0586	1.3863	0.3953	0.0555	0.4507		4,258.9611	4,258.9611	0.2150		4,264.3370

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000			0.0000
Off-Road	0.4621	9.0666	13.9878	0.0187		0.4509	0.4509		0.4509	0.4509	0.0000	1,815.2755	1,815.2755	0.5871	1,829.9529
Total	0.4621	9.0666	13.9878	0.0187	0.0000	0.4509	0.4509	0.0000	0.4509	0.4509	0.0000	1,815.2755	1,815.2755	0.5871	1,829.9529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2506	7.3172	1.5531	0.0171	0.2141	0.0416	0.2556	0.0698	0.0398	0.1096		1,783.7962	1,783.7962	0.1555		1,787.6846
Worker	1.1285	0.8196	6.9134	0.0248	1.1136	0.0171	1.1307	0.3254	0.0157	0.3411		2,475.1648	2,475.1648	0.0595		2,476.6523
Total	1.3790	8.1368	8.4665	0.0419	1.3277	0.0586	1.3863	0.3953	0.0555	0.4507		4,258.9611	4,258.9611	0.2150		4,264.3370

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1108	1.4754	1.1270	5.6900e-003	0.3107	6.3200e-003	0.3171	0.0835	5.9900e-003	0.0895		584.0802	584.0802	0.0460		585.2304

Unmitigated	0.1108	1.4754	1.1270	5.6900e-003	0.3107	6.3200e-003	0.3171	0.0835	5.9900e-003	0.0895		584.0802	584.0802	0.0460		585.2304
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	49.20	49.20	49.20	143,640	143,640
Total	49.20	49.20	49.20	143,640	143,640

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.472669	0.031291	0.166276	0.125679	0.021211	0.006775	0.020722	0.144029	0.001634	0.001785	0.006011	0.000972	0.000946

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Natural Gas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Unmitigated	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2540					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8560					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003
Total	1.1104	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005		9.3400e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

SubCategory	lb/day								lb/day					
Architectural Coating	0.2540				0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	0.8560				0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.1100e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005	9.3400e-003
Total	1.1104	4.0000e-005	4.1100e-003	0.0000	1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		8.7500e-003	8.7500e-003	2.0000e-005	9.3400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	2	8.00	12	89	0.20	Diesel
Tractors/Loaders/Backhoes	2	8.00	12	97	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	0.2880	2.5950	2.3605	3.0500e-003		0.1933	0.1933		0.1779	0.1779		296.0617	296.0617	0.0958		298.4555
Tractors/Loaders/Backhoes	0.4190	4.2103	4.5594	6.2100e-003		0.2662	0.2662		0.2449	0.2449		601.5370	601.5370	0.1946		606.4008

Total	0.7070	6.8053	6.9199	9.2600e-003		0.4596	0.4596		0.4228	0.4228		897.5987	897.5987	0.2903		904.8562
-------	--------	--------	--------	-------------	--	--------	--------	--	--------	--------	--	----------	----------	--------	--	----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

ATTACHMENT B
AERMOD Outputs and AAQA

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 10/9/2017
** File: C:\Lakes\AERMOD View\EAFB_Solar\EAFB_Solar.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\EAFB_Solar\EAFB_Solar.isc
  MODELOPT DFAULT CONC
  AVERTIME 24 PERIOD
  POLLUTID ALL
  RUNORNOT RUN
  ERRORFIL EAFB_Solar.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION AREA1          AREA          395825.796   3869062.113       776.120
** Source Parameters **
  SRCPARAM AREA1          1.2346E-06      5.000   900.000   900.000
0.000      1.400

** Variable Emissions Type: "By Season / Hour / Seven Days (SHRDOW7)"
** Variable Emission Scenario: "Scenario 1"
** Season = Winter; Day of Week = Monday
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
  EMISFACT AREA1          SHRDOW7 1.0 1.0 1.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring; Day of Week = Monday
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
  EMISFACT AREA1          SHRDOW7 1.0 1.0 1.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer; Day of Week = Monday
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
  EMISFACT AREA1          SHRDOW7 1.0 1.0 1.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall; Day of Week = Monday

```


EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Friday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
EMISFACT	AREA1	SHRDOW7	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Friday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
EMISFACT	AREA1	SHRDOW7	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Friday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
EMISFACT	AREA1	SHRDOW7	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

```
INCLUDED EAFB_Solar.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "723810 - Edwards AFB MetData - CARB\723810.SFC"
PROFFILE "723810 - Edwards AFB MetData - CARB\723810.PFL"
SURFDATA 23114 2009
UAIRDATA 3190 2009
PROFBASE 704.4 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST EAFB_Solar.AD\24H1GALL.PLT 31
PLOTFILE PERIOD ALL EAFB_Solar.AD\PE00GALL.PLT 32
SUMMFILE EAFB_Solar.sum
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****
```

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** 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 RURAL Dispersion Only.

**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.

**Other Options Specified:

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: ALL

**Model Calculates 1 Short Term Average(s) of: 24-HR

and Calculates PERIOD Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and
5302 Receptor(s)

with: 0 POINT(s), including

0 POINTCAP(s) and 0 POINTHOR(s)

and: 0 VOLUME source(s)

and: 1 AREA type source(s)

and: 0 LINE 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: 14134

**Output Options Selected:

Model Outputs Tables of PERIOD 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) = 704.40 ;
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 = 4.1 MB of RAM.

**Detailed Error/Message File: EAFB_Solar.err
**File for Summary of Results: EAFB_Solar.sum

```

*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE      2
*** MODELOPTs:      RegDEFAULT CONC ELEV RURAL

```

*** AREA SOURCE DATA

X-DIM SOURCE OF AREA ID (METERS)	Y-DIM OF AREA (METERS)	NUMBER PART. CATS. (DEG.)	EMISSION RATE (GRAMS/SEC /METER**2) (METERS)	COORD (SW CORNER)		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)
				URBAN SOURCE (METERS)	EMISSION RATE SCALAR VARY BY		
AREA1 900.00	900.00	0	0.12346E-05 1.40	395825.8 NO	3869062.1 SHRDOW7	776.1	5.00

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 3

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE

GROUPS ***

SRCGROUP ID

SOURCE IDs

ALL AREA1 ,


```

*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 4

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = AREA1 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
------	--------	------	--------	------	--------	------	--------	------

SEASON = WINTER; DAY OF

WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01
11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = SPRING; DAY OF

WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01
11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = SUMMER; DAY OF

WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01
11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = FALL ; DAY OF

WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01
11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = WINTER; DAY OF

WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01
11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01								

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = WINTER ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SPRING ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = WINTER ; DAY OF

WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SPRING; DAY OF

WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00			
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = SUMMER; DAY OF

WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00			
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00			
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

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*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 5

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 6

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 7

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMET - VERSION 14134 ***   ***
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PAGE      8
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** DISCRETE CARTESIAN

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

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 9

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 14

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 16

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 17

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 18

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 22

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 23

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 24

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 25

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 26

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 28

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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(394988.9, 3867610.7, 780.0, 780.0, 0.0); (

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 29

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 30

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 31

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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393658.5, 3868025.1, 792.4, 1275.0, 0.0);

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 32

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 33

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 34

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 37

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 38

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 39

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 40

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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(395713.8, 3871312.8, 785.0, 1275.0, 0.0); (

395691.3, 3871303.4, 785.0, 1275.0, 0.0);

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 41

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 42

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 43

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 44

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 45

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 46

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 48

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 50

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 52

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 53

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 54

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 55

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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(397817.0, 3870702.0, 775.6, 775.6, 0.0); (

397807.7, 3870724.5, 775.7, 775.7, 0.0);

(397798.4, 3870747.0, 775.9, 775.9, 0.0); (

397789.0, 3870769.5, 776.0, 776.0, 0.0);

(397779.7, 3870792.0, 776.0, 776.0, 0.0); (

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(397761.1, 3870837.0, 776.4, 776.4, 0.0); (

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(397742.5, 3870882.0, 776.6, 776.6, 0.0); (

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(397624.5, 3870986.8, 777.0, 777.0, 0.0); (

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(397579.5, 3871005.4, 777.2, 777.2, 0.0); (

397557.0, 3871014.7, 777.2, 777.2, 0.0);

(397534.5, 3871024.1, 777.3, 777.3, 0.0); (

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(397489.5, 3871042.7, 777.8, 777.8, 0.0); (

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(397264.5, 3871135.9, 779.1, 779.1, 0.0); (

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(397219.5, 3871154.5, 779.0, 779.0, 0.0); (

397197.0, 3871163.8, 779.0, 779.0, 0.0);

(397174.5, 3871173.2, 779.0, 779.0, 0.0); (

397152.0, 3871182.5, 779.0, 779.0, 0.0);

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 56

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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(397039.5, 3871229.1, 780.0, 780.0, 0.0); (
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(396994.5, 3871247.7, 780.0, 780.0, 0.0); (
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398195.0, 3870755.0, 774.2, 774.2, 0.0);

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 57

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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398006.8, 3871209.6, 777.2, 777.2, 0.0); (
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(397065.4, 3871618.3, 781.0, 781.0, 0.0); (

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(397020.0, 3871637.2, 781.4, 781.4, 0.0); (

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(396929.0, 3871674.8, 782.0, 782.0, 0.0); (

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 58

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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(398573.9, 3870806.0, 772.3, 772.3, 0.0); (

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(398555.0, 3870851.7, 773.0, 773.0, 0.0); (

398545.5, 3870874.6, 773.1, 773.1, 0.0);

(398536.0, 3870897.5, 773.3, 773.3, 0.0); (

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 59

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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398120.0, 3871581.5,	777.9,	777.9,	0.0);	(
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398074.3, 3871600.5,	778.2,	778.2,	0.0);	(
(398051.4, 3871609.9,	778.4,	778.4,	0.0);	(
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(397914.1, 3871666.8,	779.1,	779.1,	0.0);	(
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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 60

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 61

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 62

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 63

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 64

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** METEOROLOGICAL DAYS

SELECTED FOR PROCESSING ***

(1=YES;

0=NO)

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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)

8.23, 10.80, 1.54, 3.09, 5.14,

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 65

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** UP TO THE FIRST 24 HOURS OF

METEOROLOGICAL DATA ***

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Surface file:   723810 - Edwards AFB MetData - CARB\723810.SFC
Met Version:   14134
Profile file:   723810 - Edwards AFB MetData - CARB\723810.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:   23114           Upper air station no.:
3190
Name: UNKNOWN           Name:
UNKNOWN
Year:   2009           Year:
2009

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First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
09	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.8	2.0							
09	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.6	2.0							
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.5	2.0							
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.1	2.0							
09	01	01	1	05	-6.5	0.087	-9.000	-9.000	-999.	62.	8.5	0.18	
1.43	1.00	1.76	283.	10.0	271.4	2.0							
09	01	01	1	06	-11.7	0.117	-9.000	-9.000	-999.	96.	11.5	0.18	
1.43	1.00	2.36	232.	10.0	271.5	2.0							
09	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	270.8	2.0							
09	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	0.56	0.00	0.	10.0	271.9	2.0							
09	01	01	1	09	22.2	-9.000	-9.000	-9.000	55.	-999.	-99999.0	0.16	
1.43	0.33	0.00	0.	10.0	274.5	2.0							
09	01	01	1	10	77.9	0.283	0.668	0.009	128.	361.	-24.3	0.18	
1.43	0.25	2.36	201.	10.0	277.6	2.0							
09	01	01	1	11	117.0	-9.000	-9.000	-9.000	216.	-999.	-99999.0	0.16	
1.43	0.22	0.00	0.	10.0	280.1	2.0							
09	01	01	1	12	136.4	0.247	1.087	0.009	315.	295.	-9.3	0.20	
1.43	0.22	1.76	86.	10.0	282.1	2.0							
09	01	01	1	13	135.3	0.235	1.200	0.008	427.	274.	-8.0	0.16	
1.43	0.22	1.76	999.	10.0	284.2	2.0							

09	01	01	1	14	113.6	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.16
1.43	0.23	0.00	0.	10.0	285.5	2.0						
09	01	01	1	15	72.4	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.16
1.43	0.26	0.00	0.	10.0	286.8	2.0						
09	01	01	1	16	15.5	-9.000	-9.000	-9.000	633.	-999.	-99999.0	0.16
1.43	0.35	0.00	0.	10.0	287.1	2.0						
09	01	01	1	17	5.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	0.64	0.00	0.	10.0	284.1	2.0						
09	01	01	1	18	-4.9	0.077	-9.000	-9.000	-999.	51.	7.7	0.20
1.43	1.00	1.50	97.	10.0	281.1	2.0						
09	01	01	1	19	-4.7	0.074	-9.000	-9.000	-999.	48.	7.3	0.17
1.43	1.00	1.50	174.	10.0	279.1	2.0						
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	277.1	2.0						
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	275.1	2.0						
09	01	01	1	22	-16.9	0.158	-9.000	-9.000	-999.	151.	19.5	0.18
1.43	1.00	2.60	222.	10.0	276.1	2.0						
09	01	01	1	23	-16.8	0.156	-9.000	-9.000	-999.	148.	18.8	0.18
1.43	1.00	2.60	210.	10.0	274.1	2.0						
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	274.1	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	-999.	-99.00	272.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 66

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*** MODELOPTs:    RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
396724.50	3869038.47	0.27621		
396699.62	3869038.47	0.33123		
396674.74	3869038.47	0.37335		
396649.86	3869038.47	0.40405		
396624.98	3869038.47	0.42712		
396600.10	3869038.47	0.44497		
396575.21	3869038.47	0.45917		
396550.33	3869038.47	0.47072		
396525.45	3869038.47	0.48023		
396500.57	3869038.47	0.48804		
396475.69	3869038.47	0.49447		
396450.81	3869038.47	0.50189		
396425.93	3869038.47	0.51193		
396401.05	3869038.47	0.51537		
396376.17	3869038.47	0.51805		
396351.29	3869038.47	0.52010		
396326.41	3869038.47	0.52313		
396301.53	3869038.47	0.52741		
396276.65	3869038.47	0.53157		
396251.76	3869038.47	0.53115		
396226.88	3869038.47	0.53015		
396202.00	3869038.47	0.53457		
396177.12	3869038.47	0.53704		
396152.24	3869038.47	0.53421		
396127.36	3869038.47	0.53068		
396102.48	3869038.47	0.52647		
396077.60	3869038.47	0.52147		
396052.72	3869038.47	0.52179		
396027.84	3869038.47	0.51997		
396002.96	3869038.47	0.51168		
395978.08	3869038.47	0.50204		
395953.19	3869038.47	0.49060		

	395928.31	3869038.47	0.48460
395903.43	3869038.47	0.47039	
	395878.55	3869038.47	0.44788
395853.67	3869038.47	0.41581	
	395828.79	3869038.47	0.36393
396742.18	3869020.79	0.21635	
	396767.18	3869045.79	0.21090
396699.62	3869013.47	0.26775	
	396674.74	3869013.47	0.29716
396649.86	3869013.47	0.32106	
	396624.98	3869013.47	0.34031
396600.10	3869013.47	0.35587	
	396575.21	3869013.47	0.36860
396550.33	3869013.47	0.37911	
	396525.45	3869013.47	0.38786
396500.57	3869013.47	0.39516	
	396475.69	3869013.47	0.40125
396450.81	3869013.47	0.40722	
	396425.93	3869013.47	0.41402
396401.05	3869013.47	0.41931	
	396376.17	3869013.47	0.42214
396351.29	3869013.47	0.42418	
	396326.41	3869013.47	0.42562
396301.53	3869013.47	0.42744	
	396276.65	3869013.47	0.43074
396251.76	3869013.47	0.43266	
	396226.88	3869013.47	0.43209
396202.00	3869013.47	0.43468	
	396177.12	3869013.47	0.43572
396152.24	3869013.47	0.43321	
	396127.36	3869013.47	0.43015
396102.48	3869013.47	0.42647	
	396077.60	3869013.47	0.42206
396052.72	3869013.47	0.42053	
	396027.84	3869013.47	0.41736
396002.96	3869013.47	0.41017	
	395978.08	3869013.47	0.40189
395953.19	3869013.47	0.39225	
	395928.31	3869013.47	0.38516
395903.43	3869013.47	0.37289	
	395878.55	3869013.47	0.35495
395853.67	3869013.47	0.33057	
	395828.79	3869013.47	0.29701
396742.18	3868995.79	0.19422	
	396784.85	3869028.11	0.17771
396699.62	3868988.47	0.23003	
	396674.74	3868988.47	0.25162
396649.86	3868988.47	0.27027	

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View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 67

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*** MODELOPTs:    RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3

** CONC OF ALL IN
**

	X-COORD (M)	Y-COORD (M)	CONC	X-
396600.10	396624.98	3868988.47	0.28609	
396550.33	396575.21	3868988.47	0.29944	
396500.57	396525.45	3868988.47	0.31069	
396450.81	396475.69	3868988.47	0.32018	
396401.05	396425.93	3868988.47	0.32822	
396351.29	396376.17	3868988.47	0.33501	
396301.53	396326.41	3868988.47	0.34075	
396251.76	396276.65	3868988.47	0.34556	
396202.00	396226.88	3868988.47	0.34991	
396152.24	396177.12	3868988.47	0.35574	
396102.48	396127.36	3868988.47	0.35930	
396052.72	396077.60	3868988.47	0.36155	
396002.96	396027.84	3868988.47	0.36302	
395953.19	395978.08	3868988.47	0.36377	
395903.43	395928.31	3868988.47	0.36450	
395853.67	395878.55	3868988.47	0.36717	
			0.36768	
			0.36911	
			0.36968	
			0.36829	
			0.36557	
			0.36229	
			0.35839	
			0.35708	
			0.35398	
			0.34757	
			0.34021	
			0.33170	
			0.32483	
			0.31377	
			0.29849	
			0.27915	

	395828.79	3868988.47	0.25536
396742.18	3868970.79	0.17638	
	396777.53	3868985.44	0.15970
396802.53	3869010.43	0.15605	
	396817.18	3869045.79	0.16629
396699.62	3868963.47	0.20396	
	396674.74	3868963.47	0.22057
396649.86	3868963.47	0.23553	
	396624.98	3868963.47	0.24861
396600.10	3868963.47	0.25993	
	396575.21	3868963.47	0.26971
396550.33	3868963.47	0.27814	
	396525.45	3868963.47	0.28540
396500.57	3868963.47	0.29162	
	396475.69	3868963.47	0.29694
396450.81	3868963.47	0.30145	
	396425.93	3868963.47	0.30524
396401.05	3868963.47	0.30839	
	396376.17	3868963.47	0.31336
396351.29	3868963.47	0.31608	
	396326.41	3868963.47	0.31750
396301.53	3868963.47	0.31864	
	396276.65	3868963.47	0.31919
396251.76	3868963.47	0.31929	
	396226.88	3868963.47	0.32159
396202.00	3868963.47	0.32172	
	396177.12	3868963.47	0.32208
396152.24	3868963.47	0.32287	
	396127.36	3868963.47	0.32044
396102.48	3868963.47	0.31746	
	396077.60	3868963.47	0.31392
396052.72	3868963.47	0.31203	
	396027.84	3868963.47	0.30912
396002.96	3868963.47	0.30375	
	395978.08	3868963.47	0.29706
395953.19	3868963.47	0.28956	
	395928.31	3868963.47	0.28296
395903.43	3868963.47	0.27296	
	395878.55	3868963.47	0.25992
395853.67	3868963.47	0.24433	
	395828.79	3868963.47	0.22627
396745.71	3868922.26	0.15059	
	396766.93	3868931.04	0.14408
396788.14	3868939.83	0.13756	
	396809.35	3868948.62	0.13133
396839.35	3868978.61	0.12771	
	396848.14	3868999.83	0.13056
396856.93	3869021.04	0.13412	

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*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 68

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396865.71	3869042.25	0.13824		
396724.50	3868913.47	0.15663		
396699.62	3868913.47	0.16792		
396674.74	3868913.47	0.17875		
396649.86	3868913.47	0.18905		
396624.98	3868913.47	0.19906		
396600.10	3868913.47	0.20814		
396575.21	3868913.47	0.21549		
396550.33	3868913.47	0.22201		
396525.45	3868913.47	0.22776		
396500.57	3868913.47	0.23282		
396475.69	3868913.47	0.23723		
396450.81	3868913.47	0.24107		
396425.93	3868913.47	0.24436		
396401.05	3868913.47	0.24715		
396376.17	3868913.47	0.24947		
396351.29	3868913.47	0.25135		
396326.41	3868913.47	0.25312		
396301.53	3868913.47	0.25456		
396276.65	3868913.47	0.25539		
396251.76	3868913.47	0.25718		
396226.88	3868913.47	0.25943		
396202.00	3868913.47	0.25965		
396177.12	3868913.47	0.26004		
396152.24	3868913.47	0.26075		
396127.36	3868913.47	0.25874		
396102.48	3868913.47	0.25625		
396077.60	3868913.47	0.25324		
396052.72	3868913.47	0.24969		
396027.84	3868913.47	0.24683		
396002.96	3868913.47	0.24456		
395978.08	3868913.47	0.24075		

	395953.19	3868913.47	0.23475
395928.31	3868913.47	0.22726	
	395903.43	3868913.47	0.21877
395878.55	3868913.47	0.20917	
	395853.67	3868913.47	0.19839
395828.79	3868913.47	0.18667	
	396744.70	3868871.84	0.13358
396785.11	3868888.57	0.12484	
	396825.51	3868905.31	0.11594
396874.29	3868942.25	0.10855	
	396891.02	3868982.65	0.11168
396907.76	3869023.06	0.11622	
	396699.62	3868863.47	0.14551
396674.74	3868863.47	0.15326	
	396649.86	3868863.47	0.16052
396624.98	3868863.47	0.16719	
	396600.10	3868863.47	0.17385
396575.21	3868863.47	0.18082	
	396550.33	3868863.47	0.18589
396525.45	3868863.47	0.19043	
	396500.57	3868863.47	0.19447
396475.69	3868863.47	0.19805	
	396450.81	3868863.47	0.20119
396425.93	3868863.47	0.20393	
	396401.05	3868863.47	0.20630
396376.17	3868863.47	0.20831	
	396351.29	3868863.47	0.20997
396326.41	3868863.47	0.21129	
	396301.53	3868863.47	0.21286
396276.65	3868863.47	0.21530	
	396251.76	3868863.47	0.21643
396226.88	3868863.47	0.21954	
	396202.00	3868863.47	0.22224
396177.12	3868863.47	0.22437	
	396152.24	3868863.47	0.22509
396127.36	3868863.47	0.22322	
	396102.48	3868863.47	0.22167
396077.60	3868863.47	0.21865	
	396052.72	3868863.47	0.21513
396027.84	3868863.47	0.21109	
	396002.96	3868863.47	0.20656
395978.08	3868863.47	0.20154	
	395953.19	3868863.47	0.19592
395928.31	3868863.47	0.18984	
	395903.43	3868863.47	0.18326
395878.55	3868863.47	0.17599	
	395853.67	3868863.47	0.16814
395828.79	3868863.47	0.15981	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 69

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396746.60	3868822.62	0.11999		
396768.69	3868831.77	0.11657		
396790.79	3868840.93	0.11291		
396812.89	3868850.08	0.10916		
396834.98	3868859.23	0.10504		
396857.08	3868868.38	0.10111		
396879.18	3868877.54	0.09683		
396910.43	3868908.79	0.09371		
396919.58	3868930.88	0.09452		
396928.73	3868952.98	0.09581		
396937.89	3868975.07	0.09702		
396947.04	3868997.17	0.09861		
396956.19	3869019.27	0.10047		
396965.35	3869041.36	0.10247		
396724.50	3868813.47	0.12315		
396699.62	3868813.47	0.12914		
396674.74	3868813.47	0.13499		
396649.86	3868813.47	0.14051		
396624.98	3868813.47	0.14561		
396600.10	3868813.47	0.15030		
396575.21	3868813.47	0.15483		
396550.33	3868813.47	0.16030		
396525.45	3868813.47	0.16396		
396500.57	3868813.47	0.16721		
396475.69	3868813.47	0.17010		
396450.81	3868813.47	0.17266		
396425.93	3868813.47	0.17490		
396401.05	3868813.47	0.17684		
396376.17	3868813.47	0.17850		
396351.29	3868813.47	0.17995		
396326.41	3868813.47	0.18199		
396301.53	3868813.47	0.18471		

	396276.65	3868813.47	0.18753
396251.76	3868813.47	0.19034	
	396226.88	3868813.47	0.19525
396202.00	3868813.47	0.19411	
	396177.12	3868813.47	0.19040
396152.24	3868813.47	0.18787	
	396127.36	3868813.47	0.18612
396102.48	3868813.47	0.18409	
	396077.60	3868813.47	0.18282
396052.72	3868813.47	0.18039	
	396027.84	3868813.47	0.17765
396002.96	3868813.47	0.17495	
	395978.08	3868813.47	0.17174
395953.19	3868813.47	0.16743	
	395928.31	3868813.47	0.16302
395903.43	3868813.47	0.15764	
	395878.55	3868813.47	0.15203
395853.67	3868813.47	0.14609	
	395828.79	3868813.47	0.13984
396745.93	3868739.01	0.10271	
	396767.35	3868747.89	0.10011
396788.78	3868756.76	0.09789	
	396810.21	3868765.64	0.09551
396831.63	3868774.51	0.09303	
	396853.06	3868783.39	0.09049
396874.49	3868792.26	0.08794	
	396895.92	3868801.14	0.08535
396917.34	3868810.01	0.08269	
	396938.77	3868818.89	0.07998
396969.07	3868849.19	0.07740	
	396977.95	3868870.62	0.07757
396986.83	3868892.04	0.07786	
	396995.70	3868913.47	0.07831
397004.58	3868934.90	0.07891	
	397013.45	3868956.32	0.07968
397022.33	3868977.75	0.08059	
	397031.21	3868999.18	0.08161
397040.08	3869020.60	0.08272	
	397048.96	3869042.03	0.08390
396724.50	3868730.14	0.10536	
	396699.62	3868730.14	0.10935
396674.74	3868730.14	0.11326	
	396649.86	3868730.14	0.11699
396624.98	3868730.14	0.12045	
	396600.10	3868730.14	0.12362
396575.21	3868730.14	0.12672	
	396550.33	3868730.14	0.13073
396525.45	3868730.14	0.13319	

PAGE 70

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

 *** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL IN	
		**	
X-COORD (M)	Y-COORD (M)	CONC	X-
396500.57	3868730.14	0.13540	
396475.69	3868730.14	0.13812	
396450.81	3868730.14	0.14084	
396425.93	3868730.14	0.14263	
396401.05	3868730.14	0.14398	
396376.17	3868730.14	0.14800	
396351.29	3868730.14	0.15002	
396326.41	3868730.14	0.15302	
396301.53	3868730.14	0.15674	
396276.65	3868730.14	0.15541	
396251.76	3868730.14	0.15213	
396226.88	3868730.14	0.12490	
396202.00	3868730.14	0.09610	
396177.12	3868730.14	0.08648	
396152.24	3868730.14	0.08510	
396127.36	3868730.14	0.08647	
396102.48	3868730.14	0.09328	
396077.60	3868730.14	0.11091	
396052.72	3868730.14	0.12554	
396027.84	3868730.14	0.13138	
396002.96	3868730.14	0.13795	
395978.08	3868730.14	0.13657	
395953.19	3868730.14	0.13406	
395928.31	3868730.14	0.13100	
395903.43	3868730.14	0.12645	
395878.55	3868730.14	0.12221	
395853.67	3868730.14	0.11878	
395828.79	3868730.14	0.11468	
396747.16	3868656.19	0.08963	
396769.83	3868665.58	0.08820	
396792.49	3868674.96	0.08665	
396815.15	3868684.35	0.08497	

	396837.82	3868693.74	0.08309
396860.48	3868703.13	0.08119	
	396883.14	3868712.51	0.07919
396905.81	3868721.90	0.07716	
	396928.47	3868731.29	0.07509
396951.13	3868740.67	0.07295	
	396973.79	3868750.06	0.07068
396996.46	3868759.45	0.06842	
	397028.51	3868791.50	0.06599
397037.90	3868814.16	0.06588	
	397047.29	3868836.82	0.06584
397056.67	3868859.49	0.06591	
	397066.06	3868882.15	0.06609
397075.45	3868904.81	0.06640	
	397084.84	3868927.47	0.06683
397094.23	3868950.14	0.06735	
	397103.61	3868972.80	0.06795
397113.00	3868995.46	0.06862	
	397122.39	3869018.13	0.06934
397131.78	3869040.79	0.07012	
	396724.50	3868646.80	0.09099
396699.62	3868646.80	0.09414	
	396674.74	3868646.80	0.09751
396649.86	3868646.80	0.10027	
	396624.98	3868646.80	0.10271
396600.10	3868646.80	0.10537	
	396575.21	3868646.80	0.10842
396550.33	3868646.80	0.11021	
	396525.45	3868646.80	0.11183
396500.57	3868646.80	0.11431	
	396475.69	3868646.80	0.11625
396450.81	3868646.80	0.11742	
	396425.93	3868646.80	0.11859
396401.05	3868646.80	0.12095	
	396376.17	3868646.80	0.12324
396351.29	3868646.80	0.12417	
	396326.41	3868646.80	0.12613
396301.53	3868646.80	0.12823	
	396276.65	3868646.80	0.12608
396251.76	3868646.80	0.11150	
	396226.88	3868646.80	0.09570
396202.00	3868646.80	0.09581	
	396177.12	3868646.80	0.09863
396152.24	3868646.80	0.09728	
	396127.36	3868646.80	0.09642
396102.48	3868646.80	0.10154	
	396077.60	3868646.80	0.10713
396052.72	3868646.80	0.10963	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 71

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396027.84	3868646.80	0.11505		
396002.96	3868646.80	0.11415		
395978.08	3868646.80	0.11302		
395953.19	3868646.80	0.11069		
395928.31	3868646.80	0.10752		
395903.43	3868646.80	0.10466		
395878.55	3868646.80	0.10196		
395853.67	3868646.80	0.09930		
395828.79	3868646.80	0.09645		
396746.60	3868572.62	0.07963		
396768.69	3868581.77	0.07850		
396790.79	3868590.93	0.07693		
396812.89	3868600.08	0.07587		
396834.98	3868609.23	0.07470		
396857.08	3868618.38	0.07340		
396879.18	3868627.54	0.07200		
396901.27	3868636.69	0.07053		
396923.37	3868645.84	0.06902		
396945.47	3868654.99	0.06748		
396967.56	3868664.15	0.06590		
396989.66	3868673.30	0.06425		
397011.76	3868682.45	0.06253		
397033.85	3868691.60	0.06074		
397055.95	3868700.76	0.05890		
397087.20	3868732.00	0.05682		
397096.35	3868754.10	0.05656		
397105.51	3868776.20	0.05682		
397114.66	3868798.29	0.05689		
397123.81	3868820.39	0.05669		
397132.97	3868842.49	0.05674		
397142.12	3868864.58	0.05683		
397151.27	3868886.68	0.05694		

	397160.43	3868908.77	0.05697
397169.58	3868930.87	0.05740	
	397178.73	3868952.97	0.05779
397187.89	3868975.06	0.05813	
	397197.04	3868997.16	0.05852
397206.19	3869019.26	0.05935	
	397215.35	3869041.35	0.05985
396724.50	3868563.47	0.08046	
	396699.62	3868563.47	0.08245
396674.74	3868563.47	0.08441	
	396649.86	3868563.47	0.08669
396624.98	3868563.47	0.08890	
	396600.10	3868563.47	0.09076
396575.21	3868563.47	0.09229	
	396550.33	3868563.47	0.09417
396525.45	3868563.47	0.09571	
	396500.57	3868563.47	0.09676
396475.69	3868563.47	0.09821	
	396450.81	3868563.47	0.09968
396425.93	3868563.47	0.10037	
	396401.05	3868563.47	0.10153
396376.17	3868563.47	0.10241	
	396351.29	3868563.47	0.10333
396326.41	3868563.47	0.10406	
	396301.53	3868563.47	0.10462
396276.65	3868563.47	0.10537	
	396251.76	3868563.47	0.10657
396226.88	3868563.47	0.10615	
	396202.00	3868563.47	0.10556
396177.12	3868563.47	0.10469	
	396152.24	3868563.47	0.10406
396127.36	3868563.47	0.10341	
	396102.48	3868563.47	0.10178
396077.60	3868563.47	0.10065	
	396052.72	3868563.47	0.09947
396027.84	3868563.47	0.09826	
	396002.96	3868563.47	0.09680
395978.08	3868563.47	0.09463	
	395953.19	3868563.47	0.09262
395928.31	3868563.47	0.09088	
	395903.43	3868563.47	0.08915
395878.55	3868563.47	0.08729	
	395853.67	3868563.47	0.08531
395828.79	3868563.47	0.08321	
	396746.60	3868322.62	0.05692
396768.69	3868331.77	0.05693	
	396790.79	3868340.93	0.05687
396812.89	3868350.08	0.05649	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 72

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396834.98	3868359.23	0.05615		
396857.08	3868368.38	0.05566		
396879.18	3868377.54	0.05534		
396901.27	3868386.69	0.05492		
396923.37	3868395.84	0.05441		
396945.47	3868404.99	0.05382		
396967.56	3868414.15	0.05316		
396989.66	3868423.30	0.05245		
397011.76	3868432.45	0.05171		
397033.85	3868441.60	0.05091		
397055.95	3868450.76	0.05008		
397078.05	3868459.91	0.04935		
397100.14	3868469.06	0.04839		
397122.24	3868478.21	0.04741		
397144.34	3868487.37	0.04621		
397166.43	3868496.52	0.04515		
397188.53	3868505.67	0.04400		
397210.63	3868514.82	0.04327		
397232.72	3868523.98	0.04202		
397263.97	3868555.22	0.04050		
397273.13	3868577.32	0.04008		
397282.28	3868599.42	0.03965		
397291.43	3868621.51	0.03925		
397300.59	3868643.61	0.03886		
397309.74	3868665.71	0.03853		
397318.89	3868687.80	0.03820		
397328.05	3868709.90	0.03791		
397337.20	3868731.99	0.03766		
397346.35	3868754.09	0.03753		
397355.51	3868776.19	0.03736		
397364.66	3868798.28	0.03726		
397373.81	3868820.38	0.03724		

	397382.97	3868842.47	0.03727
397392.12	3868864.57	0.03723	
	397401.27	3868886.67	0.03725
397410.43	3868908.76	0.03727	
	397419.58	3868930.86	0.03728
397428.73	3868952.96	0.03738	
	397437.89	3868975.05	0.03753
397447.04	3868997.15	0.03775	
	397456.19	3869019.24	0.03804
397465.35	3869041.34	0.03840	
	396724.50	3868313.47	0.05713
396699.62	3868313.47	0.05790	
	396674.74	3868313.47	0.05866
396649.86	3868313.47	0.05939	
	396624.98	3868313.47	0.06010
396600.10	3868313.47	0.06075	
	396575.21	3868313.47	0.06143
396550.33	3868313.47	0.06251	
	396525.45	3868313.47	0.06296
396500.57	3868313.47	0.06343	
	396475.69	3868313.47	0.06401
396450.81	3868313.47	0.06450	
	396425.93	3868313.47	0.06465
396401.05	3868313.47	0.06476	
	396376.17	3868313.47	0.06499
396351.29	3868313.47	0.06539	
	396326.41	3868313.47	0.06563
396301.53	3868313.47	0.06565	
	396276.65	3868313.47	0.06565
396251.76	3868313.47	0.06562	
	396226.88	3868313.47	0.06555
396202.00	3868313.47	0.06542	
	396177.12	3868313.47	0.06499
396152.24	3868313.47	0.06439	
	396127.36	3868313.47	0.06406
396102.48	3868313.47	0.06367	
	396077.60	3868313.47	0.06351
396052.72	3868313.47	0.06319	
	396027.84	3868313.47	0.06270
396002.96	3868313.47	0.06224	
	395978.08	3868313.47	0.06202
395953.19	3868313.47	0.06137	
	395928.31	3868313.47	0.06100
395903.43	3868313.47	0.06035	
	395878.55	3868313.47	0.05951
395853.67	3868313.47	0.05859	
	395828.79	3868313.47	0.05760
396747.31	3868072.92	0.04199	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 73

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL    ***
INCLUDING SOURCE(S): AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
396770.12	3868082.37	0.04185		
396792.93	3868091.81	0.04185		
396815.74	3868101.26	0.04198		
396838.55	3868110.71	0.04211		
396861.36	3868120.16	0.04224		
396884.17	3868129.60	0.04234		
396906.98	3868139.05	0.04241		
396929.78	3868148.50	0.04244		
396952.59	3868157.95	0.04240		
396975.40	3868167.39	0.04229		
396998.21	3868176.84	0.04212		
397021.02	3868186.29	0.04189		
397043.83	3868195.74	0.04160		
397066.64	3868205.18	0.04128		
397089.45	3868214.63	0.04094		
397112.26	3868224.08	0.04057		
397135.07	3868233.53	0.04020		
397157.88	3868242.98	0.03981		
397180.69	3868252.42	0.03941		
397203.50	3868261.87	0.03890		
397226.31	3868271.32	0.03841		
397249.12	3868280.77	0.03786		
397271.93	3868290.21	0.03727		
397294.73	3868299.66	0.03663		
397317.54	3868309.11	0.03593		
397340.35	3868318.56	0.03515		
397363.16	3868328.00	0.03432		
397385.97	3868337.45	0.03340		
397408.78	3868346.90	0.03249		
397441.04	3868379.16	0.03106		
397450.49	3868401.97	0.03057		
397459.94	3868424.77	0.03009		

	397469.39	3868447.58	0.02966
397478.83	3868470.39	0.02919	
	397488.28	3868493.20	0.02872
397497.73	3868516.01	0.02826	
	397507.18	3868538.82	0.02784
397516.63	3868561.63	0.02740	
	397526.08	3868584.44	0.02697
397535.53	3868607.25	0.02658	
	397544.98	3868630.06	0.02629
397554.42	3868652.86	0.02604	
	397563.87	3868675.67	0.02584
397573.32	3868698.48	0.02570	
	397582.77	3868721.29	0.02563
397592.22	3868744.10	0.02556	
	397601.67	3868766.91	0.02553
397611.12	3868789.72	0.02558	
	397620.56	3868812.53	0.02562
397630.01	3868835.34	0.02572	
	397639.46	3868858.14	0.02584
397648.91	3868880.95	0.02599	
	397658.36	3868903.76	0.02621
397667.81	3868926.57	0.02642	
	397677.26	3868949.38	0.02670
397686.71	3868972.19	0.02704	
	397696.15	3868995.00	0.02738
397705.60	3869017.81	0.02782	
	397715.05	3869040.62	0.02827
396724.50	3868063.47	0.04195	
	396699.62	3868063.47	0.04234
396674.74	3868063.47	0.04274	
	396649.86	3868063.47	0.04345
396624.98	3868063.47	0.04403	
	396600.10	3868063.47	0.04445
396575.21	3868063.47	0.04486	
	396550.33	3868063.47	0.04525
396525.45	3868063.47	0.04598	
	396500.57	3868063.47	0.04640
396475.69	3868063.47	0.04669	
	396450.81	3868063.47	0.04694
396425.93	3868063.47	0.04719	
	396401.05	3868063.47	0.04770
396376.17	3868063.47	0.04781	
	396351.29	3868063.47	0.04785
396326.41	3868063.47	0.04783	
	396301.53	3868063.47	0.04775
396276.65	3868063.47	0.04763	
	396251.76	3868063.47	0.04746
396226.88	3868063.47	0.04724	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 74
*** MODELOPTs:    RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396202.00	3868063.47	0.04700		
396177.12	3868063.47	0.04673		
396152.24	3868063.47	0.04645		
396127.36	3868063.47	0.04617		
396102.48	3868063.47	0.04590		
396077.60	3868063.47	0.04588		
396052.72	3868063.47	0.04572		
396027.84	3868063.47	0.04549		
396002.96	3868063.47	0.04533		
395978.08	3868063.47	0.04532		
395953.19	3868063.47	0.04506		
395928.31	3868063.47	0.04476		
395903.43	3868063.47	0.04443		
395878.55	3868063.47	0.04414		
395853.67	3868063.47	0.04387		
395828.79	3868063.47	0.04339		
396747.00	3867672.79	0.02927		
396769.50	3867682.11	0.02920		
396792.00	3867691.43	0.02917		
396814.49	3867700.75	0.02916		
396836.99	3867710.06	0.02918		
396859.49	3867719.38	0.02924		
396881.99	3867728.70	0.02932		
396904.49	3867738.02	0.02941		
396926.99	3867747.34	0.02930		
396949.48	3867756.66	0.02936		
396971.98	3867765.98	0.02948		
396994.48	3867775.30	0.02936		
397016.98	3867784.61	0.02946		
397039.48	3867793.93	0.02958		
397061.98	3867803.25	0.02967		
397084.47	3867812.57	0.02975		

	397106.97	3867821.89	0.02980
397129.47	3867831.21	0.02977	
	397151.97	3867840.53	0.02969
397174.47	3867849.85	0.02981	
	397196.97	3867859.17	0.02952
397219.46	3867868.48	0.02950	
	397241.96	3867877.80	0.02948
397264.46	3867887.12	0.02945	
	397286.96	3867896.44	0.02942
397309.46	3867905.76	0.02939	
	397331.96	3867915.08	0.02935
397354.45	3867924.40	0.02930	
	397376.95	3867933.72	0.02923
397399.45	3867943.03	0.02914	
	397421.95	3867952.35	0.02901
397444.45	3867961.67	0.02885	
	397466.95	3867970.99	0.02864
397489.44	3867980.31	0.02838	
	397511.94	3867989.63	0.02808
397534.44	3867998.95	0.02772	
	397556.94	3868008.27	0.02731
397579.44	3868017.59	0.02685	
	397601.94	3868026.90	0.02634
397624.43	3868036.22	0.02578	
	397646.93	3868045.54	0.02514
397669.43	3868054.86	0.02447	
	397691.93	3868064.18	0.02381
397723.75	3868096.00	0.02271	
	397733.07	3868118.49	0.02227
397742.39	3868140.99	0.02182	
	397751.71	3868163.49	0.02135
397761.03	3868185.99	0.02085	
	397770.35	3868208.49	0.02036
397779.67	3868230.98	0.01987	
	397788.99	3868253.48	0.01941
397798.31	3868275.98	0.01896	
	397807.63	3868298.48	0.01853
397816.95	3868320.98	0.01812	
	397826.27	3868343.47	0.01774
397835.59	3868365.97	0.01739	
	397844.91	3868388.47	0.01706
397854.22	3868410.97	0.01677	
	397863.54	3868433.47	0.01652
397872.86	3868455.96	0.01630	
	397882.18	3868478.46	0.01612
397891.50	3868500.96	0.01599	
	397900.82	3868523.46	0.01590
397910.14	3868545.96	0.01586	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 75
*** MODELOPTs:   RegDFault  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):          AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL    IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
397919.46	3868568.45	0.01585	
397928.78	3868590.95	0.01587	
397938.10	3868613.45	0.01592	
397947.42	3868635.95	0.01600	
397956.74	3868658.44	0.01614	
397966.06	3868680.94	0.01628	
397975.38	3868703.44	0.01643	
397984.70	3868725.94	0.01659	
397994.02	3868748.44	0.01679	
398003.34	3868770.93	0.01701	
398012.66	3868793.43	0.01722	
398021.98	3868815.93	0.01741	
398031.30	3868838.43	0.01764	
398040.62	3868860.93	0.01787	
398049.94	3868883.42	0.01811	
398059.26	3868905.92	0.01836	
398068.58	3868928.42	0.01861	
398077.90	3868950.92	0.01888	
398087.22	3868973.42	0.01917	
398096.54	3868995.91	0.01950	
398105.86	3869018.41	0.01980	
398115.18	3869040.91	0.02010	
396724.50	3867663.47	0.02948	
396699.62	3867663.47	0.02996	
396674.74	3867663.47	0.03029	
396649.86	3867663.47	0.03063	
396624.98	3867663.47	0.03096	
396600.10	3867663.47	0.03129	
396575.21	3867663.47	0.03160	
396550.33	3867663.47	0.03190	
396525.45	3867663.47	0.03216	
396500.57	3867663.47	0.03238	

	396475.69	3867663.47	0.03262
396450.81	3867663.47	0.03286	
	396425.93	3867663.47	0.03305
396401.05	3867663.47	0.03309	
	396376.17	3867663.47	0.03307
396351.29	3867663.47	0.03301	
	396326.41	3867663.47	0.03290
396301.53	3867663.47	0.03282	
	396276.65	3867663.47	0.03282
396251.76	3867663.47	0.03262	
	396226.88	3867663.47	0.03242
396202.00	3867663.47	0.03222	
	396177.12	3867663.47	0.03202
396152.24	3867663.47	0.03183	
	396127.36	3867663.47	0.03165
396102.48	3867663.47	0.03154	
	396077.60	3867663.47	0.03146
396052.72	3867663.47	0.03133	
	396027.84	3867663.47	0.03119
396002.96	3867663.47	0.03105	
	395978.08	3867663.47	0.03094
395953.19	3867663.47	0.03084	
	395928.31	3867663.47	0.03067
395903.43	3867663.47	0.03049	
	395878.55	3867663.47	0.03029
395853.67	3867663.47	0.03007	
	395828.79	3867663.47	0.02985
396747.23	3867272.88	0.02309	
	396769.96	3867282.30	0.02302
396792.68	3867291.71	0.02288	
	396815.41	3867301.13	0.02265
396838.14	3867310.54	0.02256	
	396860.87	3867319.95	0.02248
396883.60	3867329.37	0.02241	
	396906.32	3867338.78	0.02235
396929.05	3867348.20	0.02230	
	396951.78	3867357.61	0.02223
396974.51	3867367.02	0.02208	
	396997.24	3867376.44	0.02202
397019.96	3867385.85	0.02204	
	397042.69	3867395.26	0.02206
397065.42	3867404.68	0.02210	
	397088.15	3867414.09	0.02214
397110.87	3867423.51	0.02218	
	397133.60	3867432.92	0.02200
397156.33	3867442.33	0.02177	
	397179.06	3867451.75	0.02181
397201.79	3867461.16	0.02163	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 76

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-

397224.51	3867470.58	0.02168		
397247.24	3867479.99	0.02173		
397269.97	3867489.40	0.02179		
397292.70	3867498.82	0.02186		
397315.43	3867508.23	0.02193		
397338.15	3867517.65	0.02202		
397360.88	3867527.06	0.02211		
397383.61	3867536.47	0.02222		
397406.34	3867545.89	0.02233		
397429.07	3867555.30	0.02245		
397451.79	3867564.72	0.02257		
397474.52	3867574.13	0.02269		
397497.25	3867583.54	0.02281		
397519.98	3867592.96	0.02293		
397542.71	3867602.37	0.02304		
397565.43	3867611.78	0.02313		
397588.16	3867621.20	0.02320		
397610.89	3867630.61	0.02324		
397633.62	3867640.03	0.02326		
397656.34	3867649.44	0.02324		
397679.07	3867658.85	0.02318		
397701.80	3867668.27	0.02308		
397724.53	3867677.68	0.02294		
397747.26	3867687.10	0.02275		
397769.98	3867696.51	0.02246		
397792.71	3867705.92	0.02216		
397815.44	3867715.34	0.02184		
397838.17	3867724.75	0.02143		
397860.90	3867734.17	0.02101		
397883.62	3867743.58	0.02057		
397906.35	3867752.99	0.02009		
397929.08	3867762.41	0.01954		

	397951.81	3867771.82	0.01901
397974.54	3867781.24	0.01845	
	398006.68	3867813.38	0.01750
398016.09	3867836.10	0.01712	
	398025.51	3867858.83	0.01672
398034.92	3867881.56	0.01632	
	398044.34	3867904.29	0.01591
398053.75	3867927.01	0.01550	
	398063.17	3867949.74	0.01510
398072.58	3867972.47	0.01470	
	398082.00	3867995.20	0.01432
398091.41	3868017.92	0.01394	
	398100.83	3868040.65	0.01358
398110.24	3868063.38	0.01324	
	398119.66	3868086.11	0.01291
398129.07	3868108.83	0.01261	
	398138.49	3868131.56	0.01233
398147.90	3868154.29	0.01207	
	398157.32	3868177.02	0.01184
398166.73	3868199.74	0.01163	
	398176.15	3868222.47	0.01145
398185.56	3868245.20	0.01130	
	398194.98	3868267.93	0.01117
398204.39	3868290.65	0.01108	
	398213.81	3868313.38	0.01102
398223.22	3868336.11	0.01100	
	398232.64	3868358.84	0.01099
398242.05	3868381.56	0.01100	
	398251.47	3868404.29	0.01104
398260.88	3868427.02	0.01110	
	398270.30	3868449.75	0.01117
398279.71	3868472.47	0.01127	
	398289.13	3868495.20	0.01139
398298.54	3868517.93	0.01152	
	398307.96	3868540.66	0.01167
398317.37	3868563.38	0.01181	
	398326.79	3868586.11	0.01197
398336.20	3868608.84	0.01212	
	398345.62	3868631.57	0.01228
398355.03	3868654.29	0.01244	
	398364.45	3868677.02	0.01261
398373.86	3868699.75	0.01278	
	398383.28	3868722.48	0.01293
398392.69	3868745.20	0.01309	
	398402.11	3868767.93	0.01325
398411.52	3868790.66	0.01338	
	398420.94	3868813.39	0.01351
398430.35	3868836.11	0.01364	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 77

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-

	398439.77	3868858.84	0.01378	
398449.18	3868881.57	0.01391		
	398458.60	3868904.30	0.01405	
398468.01	3868927.02	0.01419		
	398477.43	3868949.75	0.01436	
398486.84	3868972.48	0.01452		
	398496.26	3868995.21	0.01468	
398505.67	3869017.93	0.01485		
	398515.09	3869040.66	0.01503	
396724.50	3867263.47	0.02315		
	396699.62	3867263.47	0.02334	
396674.74	3867263.47	0.02353		
	396649.86	3867263.47	0.02371	
396624.98	3867263.47	0.02387		
	396600.10	3867263.47	0.02402	
396575.21	3867263.47	0.02415		
	396550.33	3867263.47	0.02427	
396525.45	3867263.47	0.02448		
	396500.57	3867263.47	0.02461	
396475.69	3867263.47	0.02468		
	396450.81	3867263.47	0.02472	
396425.93	3867263.47	0.02475		
	396401.05	3867263.47	0.02484	
396376.17	3867263.47	0.02485		
	396351.29	3867263.47	0.02481	
396326.41	3867263.47	0.02476		
	396301.53	3867263.47	0.02470	
396276.65	3867263.47	0.02463		
	396251.76	3867263.47	0.02456	
396226.88	3867263.47	0.02448		
	396202.00	3867263.47	0.02441	
396177.12	3867263.47	0.02433		

	396152.24	3867263.47	0.02427
396127.36	3867263.47	0.02426	
	396102.48	3867263.47	0.02417
396077.60	3867263.47	0.02407	
	396052.72	3867263.47	0.02396
396027.84	3867263.47	0.02384	
	396002.96	3867263.47	0.02373
395978.08	3867263.47	0.02363	
	395953.19	3867263.47	0.02348
395928.31	3867263.47	0.02334	
	395903.43	3867263.47	0.02318
395878.55	3867263.47	0.02300	
	395853.67	3867263.47	0.02282
395828.79	3867263.47	0.02264	
	396747.38	3866872.95	0.01875
396770.25	3866882.42	0.01872	
	396793.13	3866891.90	0.01872
396816.01	3866901.37	0.01871	
	396838.88	3866910.85	0.01870
396861.76	3866920.32	0.01867	
	396884.64	3866929.80	0.01862
396907.51	3866939.27	0.01853	
	396930.39	3866948.75	0.01842
396953.26	3866958.22	0.01835	
	396976.14	3866967.70	0.01830
396999.02	3866977.18	0.01825	
	397021.89	3866986.65	0.01819
397044.77	3866996.13	0.01813	
	397067.65	3867005.60	0.01807
397090.52	3867015.08	0.01801	
	397113.40	3867024.55	0.01780
397136.28	3867034.03	0.01772	
	397159.15	3867043.50	0.01760
397182.03	3867052.98	0.01742	
	397204.91	3867062.45	0.01741
397227.78	3867071.93	0.01730	
	397250.66	3867081.41	0.01720
397273.54	3867090.88	0.01710	
	397296.41	3867100.36	0.01701
397319.29	3867109.83	0.01692	
	397342.16	3867119.31	0.01683
397365.04	3867128.78	0.01675	
	397387.92	3867138.26	0.01670
397410.79	3867147.73	0.01673	
	397433.67	3867157.21	0.01677
397456.55	3867166.68	0.01680	
	397479.42	3867176.16	0.01689
397502.30	3867185.64	0.01700	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 78

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
---	---	---	---	---
397548.05	397525.18	3867195.11	0.01713	
397593.81	3867204.59	0.01726		
397639.56	397570.93	3867214.06	0.01742	
397685.31	3867223.54	0.01758		
397731.06	397616.68	3867233.01	0.01775	
397776.82	3867242.49	0.01793		
397822.57	397662.44	3867251.96	0.01812	
397868.32	3867261.44	0.01830		
397914.08	397708.19	3867270.91	0.01848	
397959.83	3867280.39	0.01866		
398005.58	397753.94	3867289.87	0.01883	
398051.34	3867299.34	0.01898		
398097.09	397799.69	3867308.82	0.01911	
398142.84	3867318.29	0.01922		
398188.59	397845.45	3867327.77	0.01930	
398234.35	3867337.24	0.01936		
	397891.20	3867346.72	0.01933	
	397914.08	3867356.19	0.01930	
	397936.95	3867365.67	0.01925	
	397959.83	3867375.14	0.01916	
	397982.71	3867384.62	0.01904	
	398005.58	3867394.10	0.01888	
	398028.46	3867403.57	0.01868	
	398051.34	3867413.05	0.01843	
	398074.21	3867422.52	0.01812	
	398097.09	3867432.00	0.01781	
	398119.96	3867441.47	0.01748	
	398142.84	3867450.95	0.01712	
	398165.72	3867460.42	0.01669	
	398188.59	3867469.90	0.01627	
	398211.47	3867479.37	0.01585	
	398234.35	3867488.85	0.01541	

	398257.22	3867498.32	0.01497
398289.58	3867530.68	0.01419	
	398299.05	3867553.55	0.01386
398308.53	3867576.43	0.01351	
	398318.01	3867599.30	0.01316
398327.48	3867622.18	0.01281	
	398336.96	3867645.06	0.01246
398346.44	3867667.93	0.01213	
	398355.91	3867690.81	0.01180
398365.39	3867713.68	0.01147	
	398374.86	3867736.56	0.01116
398384.34	3867759.44	0.01086	
	398393.82	3867782.31	0.01056
398403.29	3867805.19	0.01029	
	398412.77	3867828.07	0.01002
398422.25	3867850.94	0.00977	
	398431.72	3867873.82	0.00954
398441.20	3867896.69	0.00932	
	398450.68	3867919.57	0.00912
398460.15	3867942.45	0.00894	
	398469.63	3867965.32	0.00878
398479.11	3867988.20	0.00864	
	398488.58	3868011.07	0.00852
398498.06	3868033.95	0.00842	
	398507.54	3868056.83	0.00833
398517.01	3868079.70	0.00827	
	398526.49	3868102.58	0.00823
398535.96	3868125.45	0.00820	
	398545.44	3868148.33	0.00819
398554.92	3868171.21	0.00820	
	398564.39	3868194.08	0.00822
398573.87	3868216.96	0.00825	
	398583.35	3868239.83	0.00830
398592.82	3868262.71	0.00836	
	398602.30	3868285.59	0.00843
398611.78	3868308.46	0.00851	
	398621.25	3868331.34	0.00861
398630.73	3868354.21	0.00871	
	398640.21	3868377.09	0.00882
398649.68	3868399.97	0.00893	
	398659.16	3868422.84	0.00905
398668.64	3868445.72	0.00917	
	398678.11	3868468.59	0.00930
398687.59	3868491.47	0.00943	
	398697.06	3868514.35	0.00955
398706.54	3868537.22	0.00967	
	398716.02	3868560.10	0.00979
398725.49	3868582.97	0.00991	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 79

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-

398734.97	3868605.85	0.01003		
398744.45	3868628.73	0.01015		
398753.92	3868651.60	0.01025		
398763.40	3868674.48	0.01035		
398772.88	3868697.35	0.01045		
398782.35	3868720.23	0.01054		
398791.83	3868743.11	0.01062		
398801.31	3868765.98	0.01070		
398810.78	3868788.86	0.01077		
398820.26	3868811.74	0.01084		
398829.74	3868834.61	0.01092		
398839.21	3868857.49	0.01100		
398848.69	3868880.36	0.01108		
398858.16	3868903.24	0.01116		
398867.64	3868926.12	0.01125		
398877.12	3868948.99	0.01134		
398886.59	3868971.87	0.01144		
398896.07	3868994.74	0.01154		
398905.55	3869017.62	0.01165		
398915.02	3869040.50	0.01176		
396724.50	3866863.47	0.01882		
396699.62	3866863.47	0.01890		
396674.74	3866863.47	0.01897		
396649.86	3866863.47	0.01903		
396624.98	3866863.47	0.01909		
396600.10	3866863.47	0.01914		
396575.21	3866863.47	0.01919		
396550.33	3866863.47	0.01923		
396525.45	3866863.47	0.01927		
396500.57	3866863.47	0.01931		
396475.69	3866863.47	0.01934		
396450.81	3866863.47	0.01937		

	396425.93	3866863.47	0.01939
396401.05	3866863.47	0.01942	
	396376.17	3866863.47	0.01944
396351.29	3866863.47	0.01947	
	396326.41	3866863.47	0.01949
396301.53	3866863.47	0.01953	
	396276.65	3866863.47	0.01960
396251.76	3866863.47	0.01961	
	396226.88	3866863.47	0.01962
396202.00	3866863.47	0.01963	
	396177.12	3866863.47	0.01962
396152.24	3866863.47	0.01960	
	396127.36	3866863.47	0.01958
396102.48	3866863.47	0.01954	
	396077.60	3866863.47	0.01953
396052.72	3866863.47	0.01947	
	396027.84	3866863.47	0.01939
396002.96	3866863.47	0.01930	
	395978.08	3866863.47	0.01920
395953.19	3866863.47	0.01908	
	395928.31	3866863.47	0.01895
395903.43	3866863.47	0.01884	
	395878.55	3866863.47	0.01872
395853.67	3866863.47	0.01857	
	395828.79	3866863.47	0.01842
396747.48	3866472.99	0.01555	
	396770.46	3866482.51	0.01560
396793.44	3866492.03	0.01564	
	396816.42	3866501.54	0.01568
396839.40	3866511.06	0.01571	
	396862.38	3866520.58	0.01574
396885.36	3866530.10	0.01577	
	396908.34	3866539.62	0.01579
396931.32	3866549.14	0.01581	
	396954.30	3866558.66	0.01582
396977.29	3866568.17	0.01582	
	397000.27	3866577.69	0.01580
397023.25	3866587.21	0.01582	
	397046.23	3866596.73	0.01582
397069.21	3866606.25	0.01577	
	397092.19	3866615.77	0.01571
397115.17	3866625.28	0.01564	
	397138.15	3866634.80	0.01559
397161.13	3866644.32	0.01553	
	397184.11	3866653.84	0.01537
397207.09	3866663.36	0.01530	
	397230.07	3866672.88	0.01519
397253.05	3866682.40	0.01507	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 80
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

 *** DISCRETE CARTESIAN
 RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN

 **

	X-COORD (M)	Y-COORD (M)	CONC	X-
	Y-COORD (M)	CONC		
397276.03	3866691.91	0.01495		
397299.01	3866701.43	0.01480		
397321.99	3866710.95	0.01465		
397344.97	3866720.47	0.01454		
397367.95	3866729.99	0.01445		
397390.93	3866739.51	0.01437		
397413.91	3866749.03	0.01426		
397436.89	3866758.54	0.01416		
397459.87	3866768.06	0.01406		
397482.86	3866777.58	0.01399		
397505.84	3866787.10	0.01395		
397528.82	3866796.62	0.01393		
397551.80	3866806.14	0.01391		
397574.78	3866815.66	0.01390		
397597.76	3866825.17	0.01393		
397620.74	3866834.69	0.01399		
397643.72	3866844.21	0.01404		
397666.70	3866853.73	0.01411		
397689.68	3866863.25	0.01422		
397712.66	3866872.77	0.01431		
397735.64	3866882.28	0.01444		
397758.62	3866891.80	0.01460		
397781.60	3866901.32	0.01477		
397804.58	3866910.84	0.01493		
397827.56	3866920.36	0.01514		
397850.54	3866929.88	0.01533		
397873.52	3866939.40	0.01553		
397896.50	3866948.91	0.01573		
397919.48	3866958.43	0.01593		
397942.46	3866967.95	0.01611		
397965.44	3866977.47	0.01628		
397988.43	3866986.99	0.01640		

	398011.41	3866996.51	0.01654
398034.39	3867006.03	0.01663	
	398057.37	3867015.54	0.01670
398080.35	3867025.06	0.01677	
	398103.33	3867034.58	0.01677
398126.31	3867044.10	0.01678	
	398149.29	3867053.62	0.01674
398172.27	3867063.14	0.01665	
	398195.25	3867072.66	0.01653
398218.23	3867082.17	0.01643	
	398241.21	3867091.69	0.01631
398264.19	3867101.21	0.01616	
	398287.17	3867110.73	0.01598
398310.15	3867120.25	0.01578	
	398333.13	3867129.77	0.01557
398356.11	3867139.28	0.01534	
	398379.09	3867148.80	0.01504
398402.07	3867158.32	0.01471	
	398425.05	3867167.84	0.01438
398448.03	3867177.36	0.01404	
	398471.01	3867186.88	0.01369
398494.00	3867196.40	0.01333	
	398516.98	3867205.91	0.01296
398539.96	3867215.43	0.01259	
	398572.46	3867247.93	0.01190
398581.98	3867270.91	0.01160	
	398591.50	3867293.89	0.01132
398601.01	3867316.87	0.01103	
	398610.53	3867339.85	0.01075
398620.05	3867362.83	0.01046	
	398629.57	3867385.81	0.01017
398639.09	3867408.79	0.00989	
	398648.61	3867431.77	0.00960
398658.13	3867454.75	0.00934	
	398667.65	3867477.73	0.00908
398677.17	3867500.71	0.00883	
	398686.69	3867523.69	0.00860
398696.21	3867546.67	0.00837	
	398705.73	3867569.65	0.00815
398715.25	3867592.63	0.00795	
	398724.77	3867615.61	0.00776
398734.29	3867638.59	0.00758	
	398743.81	3867661.57	0.00741
398753.33	3867684.55	0.00726	
	398762.85	3867707.53	0.00712
398772.37	3867730.51	0.00698	
	398781.89	3867753.49	0.00686
398791.41	3867776.47	0.00676	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 81

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
398810.44	398800.93	3867799.45	0.00668	
398829.48	398819.96	3867845.41	0.00655	
398848.52	398829.48	3867868.39	0.00650	
398867.56	398839.00	3867891.37	0.00646	
398886.60	398848.52	3867914.35	0.00644	
398905.64	398858.04	3867937.33	0.00643	
398924.68	398867.56	3867960.31	0.00644	
398943.72	398877.08	3867983.29	0.00645	
398962.76	398886.60	3868006.27	0.00648	
398981.80	398896.12	3868029.25	0.00651	
399000.84	398905.64	3868052.23	0.00655	
399019.87	398915.16	3868075.21	0.00660	
399038.91	398924.68	3868098.19	0.00664	
399057.95	398934.20	3868121.17	0.00671	
399076.99	398943.72	3868144.15	0.00677	
399096.03	398953.24	3868167.13	0.00685	
	398962.76	3868190.11	0.00693	
	398972.28	3868213.09	0.00701	
	398981.80	3868236.07	0.00710	
	398991.32	3868259.05	0.00719	
	399000.84	3868282.03	0.00727	
	399010.36	3868305.01	0.00737	
	399019.87	3868327.99	0.00747	
	399029.39	3868350.97	0.00757	
	399038.91	3868373.95	0.00767	
	399048.43	3868396.93	0.00776	
	399057.95	3868419.91	0.00786	
	399067.47	3868442.89	0.00796	
	399076.99	3868465.87	0.00806	
	399086.51	3868488.85	0.00815	
	399096.03	3868511.83	0.00824	

	399105.55	3868534.81	0.00833
399115.07	3868557.79	0.00841	
	399124.59	3868580.77	0.00848
399134.11	3868603.75	0.00855	
	399143.63	3868626.73	0.00861
399153.15	3868649.71	0.00866	
	399162.67	3868672.69	0.00871
399172.19	3868695.67	0.00875	
	399181.71	3868718.65	0.00878
399191.23	3868741.63	0.00882	
	399200.75	3868764.61	0.00886
399210.27	3868787.59	0.00888	
	399219.79	3868810.57	0.00892
399229.30	3868833.55	0.00895	
	399238.82	3868856.53	0.00898
399248.34	3868879.51	0.00902	
	399257.86	3868902.49	0.00905
399267.38	3868925.47	0.00910	
	399276.90	3868948.45	0.00915
399286.42	3868971.43	0.00921	
	399295.94	3868994.41	0.00927
399305.46	3869017.39	0.00934	
	399314.98	3869040.37	0.00941
396724.50	3866463.47	0.01551	
	396699.62	3866463.47	0.01553
396674.74	3866463.47	0.01555	
	396649.86	3866463.47	0.01557
396624.98	3866463.47	0.01559	
	396600.10	3866463.47	0.01562
396575.21	3866463.47	0.01564	
	396550.33	3866463.47	0.01567
396525.45	3866463.47	0.01570	
	396500.57	3866463.47	0.01574
396475.69	3866463.47	0.01578	
	396450.81	3866463.47	0.01582
396425.93	3866463.47	0.01588	
	396401.05	3866463.47	0.01593
396376.17	3866463.47	0.01599	
	396351.29	3866463.47	0.01605
396326.41	3866463.47	0.01612	
	396301.53	3866463.47	0.01618
396276.65	3866463.47	0.01624	
	396251.76	3866463.47	0.01629
396226.88	3866463.47	0.01633	
	396202.00	3866463.47	0.01637
396177.12	3866463.47	0.01640	
	396152.24	3866463.47	0.01642
396127.36	3866463.47	0.01644	

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

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PAGE 82

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
396102.48	3866463.47	0.01645	
396077.60	3866463.47	0.01643	
396052.72	3866463.47	0.01640	
396027.84	3866463.47	0.01635	
396002.96	3866463.47	0.01629	
395978.08	3866463.47	0.01623	
395953.19	3866463.47	0.01615	
395928.31	3866463.47	0.01608	
395903.43	3866463.47	0.01598	
395878.55	3866463.47	0.01587	
395853.67	3866463.47	0.01576	
395828.79	3866463.47	0.01564	
395803.79	3869063.41	0.33778	
395803.73	3869088.30	0.36156	
395803.66	3869113.19	0.37506	
395803.60	3869138.08	0.38284	
395803.54	3869162.97	0.38832	
395803.48	3869187.86	0.39218	
395803.41	3869212.75	0.39471	
395803.35	3869237.64	0.39637	
395803.29	3869262.53	0.39732	
395803.23	3869287.42	0.39761	
395803.16	3869312.31	0.39728	
395803.10	3869337.20	0.39650	
395803.04	3869362.09	0.39534	
395802.97	3869386.98	0.39379	
395802.91	3869411.87	0.39199	
395802.85	3869436.76	0.38974	
395802.79	3869461.65	0.38690	
395802.72	3869486.54	0.38344	
395802.66	3869511.43	0.37962	
395802.60	3869536.32	0.37540	

	395802.53	3869561.21	0.37073
395802.47	3869586.10	0.36564	
	395802.41	3869610.99	0.35652
395802.35	3869635.88	0.34753	
	395802.28	3869660.77	0.34071
395802.22	3869685.66	0.33294	
	395802.16	3869710.55	0.32492
395802.10	3869735.44	0.31589	
	395802.03	3869760.33	0.30576
395801.97	3869785.23	0.29431	
	395801.91	3869810.12	0.28132
395801.84	3869835.01	0.26609	
	395801.78	3869859.90	0.24450
395801.72	3869884.79	0.22173	
	395801.66	3869909.68	0.19402
395801.59	3869934.57	0.15899	
	395801.53	3869959.46	0.12134
395786.13	3869045.71	0.26548	
	395778.73	3869088.23	0.27745
395778.66	3869113.12	0.28570	
	395778.60	3869138.01	0.29120
395778.54	3869162.91	0.29503	
	395778.48	3869187.80	0.29766
395778.41	3869212.69	0.29938	
	395778.35	3869237.58	0.30042
395778.29	3869262.47	0.30083	
	395778.23	3869287.36	0.30077
395778.16	3869312.25	0.30024	
	395778.10	3869337.14	0.29931
395778.04	3869362.03	0.29802	
	395777.97	3869386.92	0.29632
395777.91	3869411.81	0.29430	
	395777.85	3869436.70	0.29195
395777.79	3869461.59	0.28921	
	395777.72	3869486.48	0.28612
395777.66	3869511.37	0.28271	
	395777.60	3869536.26	0.27883
395777.53	3869561.15	0.27239	
	395777.47	3869586.04	0.26747
395777.41	3869610.93	0.26192	
	395777.35	3869635.82	0.25599
395777.28	3869660.71	0.24995	
	395777.22	3869685.60	0.24338
395777.16	3869710.49	0.23610	
	395777.10	3869735.38	0.22810
395777.03	3869760.27	0.21918	
	395776.97	3869785.16	0.20931
395776.91	3869810.05	0.19785	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 83

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*** MODELOPTs:   RegDEFAULT   CONC   ELEV   RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                INCLUDING SOURCE(S):   AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
395776.84	3869834.94	0.18356		
395776.78	3869859.83	0.16867		
395776.72	3869884.72	0.15200		
395776.66	3869909.61	0.13307		
395776.59	3869934.50	0.11237		
395776.53	3869959.39	0.09321		
395761.13	3869045.64	0.22274		
395793.48	3869003.07	0.23213		
395753.73	3869088.17	0.22825		
395753.66	3869113.06	0.23377		
395753.60	3869137.95	0.23762		
395753.54	3869162.84	0.24029		
395753.48	3869187.73	0.24211		
395753.41	3869212.62	0.24325		
395753.35	3869237.51	0.24385		
395753.29	3869262.40	0.24398		
395753.23	3869287.29	0.24370		
395753.16	3869312.18	0.24302		
395753.10	3869337.07	0.24202		
395753.04	3869361.96	0.24068		
395752.97	3869386.85	0.23901		
395752.91	3869411.74	0.23704		
395752.85	3869436.64	0.23475		
395752.79	3869461.53	0.23214		
395752.72	3869486.42	0.22870		
395752.66	3869511.31	0.22458		
395752.60	3869536.20	0.22100		
395752.53	3869561.09	0.21622		
395752.47	3869585.98	0.21184		
395752.41	3869610.87	0.20720		
395752.35	3869635.76	0.20215		
395752.28	3869660.65	0.19663		

	395752.22	3869685.54	0.19063
395752.16	3869710.43	0.18409	
	395752.10	3869735.32	0.17693
395752.03	3869760.21	0.16906	
	395751.97	3869785.10	0.16009
395751.91	3869809.99	0.14979	
	395751.84	3869834.88	0.13878
395751.78	3869859.77	0.12729	
	395751.72	3869884.66	0.11473
395751.66	3869909.55	0.10138	
	395751.59	3869934.44	0.08813
395751.53	3869959.33	0.07639	
	395736.13	3869045.58	0.19263
395750.82	3869010.31	0.19257	
	395775.82	3868985.37	0.20024
395728.73	3869088.11	0.19536	
	395728.66	3869113.00	0.19921
395728.60	3869137.89	0.20150	
	395728.54	3869162.78	0.20321
395728.48	3869187.67	0.20439	
	395728.41	3869212.56	0.20505
395728.35	3869237.45	0.20529	
	395728.29	3869262.34	0.20514
395728.23	3869287.23	0.20514	
	395728.16	3869312.12	0.20450
395728.10	3869337.01	0.20338	
	395728.04	3869361.90	0.20183
395727.97	3869386.79	0.19958	
	395727.91	3869411.68	0.19761
395727.85	3869436.57	0.19539	
	395727.79	3869461.46	0.19288
395727.72	3869486.35	0.18969	
	395727.66	3869511.24	0.18593
395727.60	3869536.13	0.18257	
	395727.53	3869561.02	0.17889
395727.47	3869585.91	0.17491	
	395727.41	3869610.80	0.17059
395727.35	3869635.69	0.16591	
	395727.28	3869660.58	0.16083
395727.22	3869685.47	0.15535	
	395727.16	3869710.37	0.14942
395727.10	3869735.26	0.14263	
	395727.03	3869760.15	0.13551
395726.97	3869785.04	0.12783	
	395726.91	3869809.93	0.11930
395726.84	3869834.82	0.11068	
	395726.78	3869859.71	0.10148
395726.72	3869884.60	0.09186	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***          10/09/17
*** AERMET - VERSION 14134 ***    ***
***          18:08:39

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PAGE 84
*** MODELOPTs:      RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
---	---	---	---	---
395726.59	3869934.38	0.07305		
395726.66	3869909.49	0.08219		
395687.60	3869041.93	0.15204		
395705.23	3868999.60	0.15470		
395744.04	3868948.51	0.16001		
395786.42	3868930.99	0.17504		
395678.79	3869063.09	0.14881		
395678.66	3869112.87	0.15323		
395678.54	3869162.65	0.15541		
395678.41	3869212.43	0.15591		
395678.29	3869262.21	0.15514		
395678.16	3869311.99	0.15334		
395678.04	3869361.78	0.15062		
395677.91	3869411.56	0.14701		
395677.79	3869461.34	0.14253		
395677.66	3869511.12	0.13715		
395677.53	3869560.90	0.13084		

	395677.47	3869585.79	0.12734
395677.41	3869610.68	0.12356	
	395677.35	3869635.57	0.11951
395677.28	3869660.46	0.11509	
	395677.22	3869685.35	0.10985
395677.16	3869710.24	0.10510	
	395677.10	3869735.13	0.10007
395677.03	3869760.02	0.09478	
	395676.97	3869784.91	0.08923
395676.91	3869809.80	0.08345	
	395676.84	3869834.69	0.07747
395676.78	3869859.58	0.07145	
	395676.72	3869884.47	0.06555
395676.66	3869909.36	0.05993	
	395676.59	3869934.25	0.05463
395676.53	3869959.14	0.04979	
	395637.18	3869042.81	0.12467
395653.97	3869002.50	0.12839	
	395670.76	3868962.18	0.12929
395707.72	3868913.53	0.13281	
	395748.08	3868896.84	0.14328
395788.43	3868880.16	0.15231	
	395628.73	3869087.86	0.12371
395628.67	3869112.75	0.12462	
	395628.60	3869137.64	0.12517
395628.54	3869162.53	0.12543	
	395628.48	3869187.42	0.12543
395628.41	3869212.31	0.12516	
	395628.35	3869237.20	0.12465
395628.29	3869262.09	0.12391	
	395628.23	3869286.98	0.12296
395628.16	3869311.87	0.12182	
	395628.10	3869336.76	0.12050
395628.04	3869361.65	0.11900	
	395627.97	3869386.54	0.11733
395627.91	3869411.43	0.11549	
	395627.85	3869436.32	0.11347
395627.79	3869461.21	0.11129	
	395627.72	3869486.10	0.10892
395627.66	3869510.99	0.10639	
	395627.60	3869535.88	0.10368
395627.54	3869560.77	0.10037	
	395627.47	3869585.66	0.09725
395627.41	3869610.55	0.09396	
	395627.35	3869635.44	0.09052
395627.28	3869660.33	0.08700	
	395627.22	3869685.22	0.08333
395627.16	3869710.11	0.07952	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 85

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL	IN
		**	
X-COORD (M)	Y-COORD (M)	CONC	X-
COORD (M)	Y-COORD (M)	CONC	
395627.10	3869735.00	0.07556	
395627.03	3869759.89	0.07145	
395626.97	3869784.78	0.06725	
395626.91	3869809.67	0.06301	
395626.84	3869834.56	0.05879	
395626.78	3869859.45	0.05472	
395626.72	3869884.34	0.05067	
395626.66	3869909.24	0.04692	
395626.59	3869934.13	0.04355	
395626.53	3869959.02	0.04055	
395597.15	3869018.75	0.10732	
395606.33	3868996.70	0.10885	
395615.51	3868974.65	0.10995	
395624.69	3868952.61	0.11085	
395633.87	3868930.56	0.11114	
395643.06	3868908.52	0.11066	
395674.31	3868877.35	0.11416	
395696.37	3868868.22	0.11856	
395718.44	3868859.10	0.12285	
395740.51	3868849.97	0.12666	
395762.58	3868840.85	0.13038	
395784.65	3868831.72	0.13389	
395806.72	3868822.60	0.13710	
395578.79	3869062.84	0.10320	
395578.73	3869087.73	0.10383	
395578.67	3869112.62	0.10418	
395578.60	3869137.51	0.10427	
395578.54	3869162.40	0.10414	
395578.48	3869187.29	0.10383	
395578.41	3869212.18	0.10333	
395578.35	3869237.07	0.10266	

	395578.29	3869261.96	0.10181
395578.23	3869286.85	0.10079	
	395578.16	3869311.74	0.09960
395578.10	3869336.63	0.09826	
	395578.04	3869361.52	0.09674
395577.97	3869386.41	0.09495	
	395577.91	3869411.30	0.09320
395577.85	3869436.19	0.09134	
	395577.79	3869461.08	0.08916
395577.72	3869485.97	0.08688	
	395577.66	3869510.86	0.08465
395577.60	3869535.75	0.08230	
	395577.54	3869560.65	0.07983
395577.47	3869585.54	0.07725	
	395577.41	3869610.43	0.07456
395577.35	3869635.32	0.07176	
	395577.28	3869660.21	0.06886
395577.22	3869685.10	0.06586	
	395577.16	3869709.99	0.06277
395577.10	3869734.88	0.05961	
	395577.03	3869759.77	0.05640
395576.97	3869784.66	0.05320	
	395576.91	3869809.55	0.05004
395576.84	3869834.44	0.04691	
	395576.78	3869859.33	0.04390
395576.72	3869884.22	0.04117	
	395576.66	3869909.11	0.03864
395576.59	3869934.00	0.03629	
	395576.53	3869958.89	0.03414
395504.36	3869041.25	0.08217	
	395513.26	3869019.87	0.08386
395522.17	3868998.50	0.08539	
	395531.07	3868977.12	0.08672
395539.97	3868955.74	0.08783	
	395548.87	3868934.36	0.08868
395557.78	3868912.98	0.08925	
	395566.68	3868891.60	0.08959
395575.58	3868870.23	0.08968	
	395584.48	3868848.85	0.08947
395614.79	3868818.62	0.09185	
	395636.19	3868809.77	0.09474
395657.59	3868800.93	0.09764	
	395678.99	3868792.08	0.10031
395700.39	3868783.23	0.10282	
	395721.79	3868774.38	0.10522
395743.19	3868765.53	0.10754	
	395764.59	3868756.68	0.10977
395785.99	3868747.83	0.11143	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 86

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
395807.39	3868738.99	0.11307		
395495.46	3869062.63	0.08027		
395495.39	3869087.52	0.08028		
395495.33	3869112.41	0.08013		
395495.27	3869137.30	0.07981		
395495.21	3869162.19	0.07915		
395495.14	3869187.08	0.07838		
395495.08	3869211.97	0.07766		
395495.02	3869236.86	0.07684		
395494.96	3869261.75	0.07591		
395494.89	3869286.64	0.07488		
395494.83	3869311.53	0.07375		
395494.77	3869336.42	0.07252		
395494.70	3869361.31	0.07118		
395494.64	3869386.20	0.06976		
395494.58	3869411.09	0.06825		
395494.52	3869435.98	0.06667		
395494.45	3869460.87	0.06502		
395494.39	3869485.76	0.06330		
395494.33	3869510.65	0.06152		
395494.26	3869535.54	0.05967		
395494.20	3869560.43	0.05776		
395494.14	3869585.33	0.05578		
395494.08	3869610.22	0.05371		
395494.01	3869635.11	0.05159		
395493.95	3869660.00	0.04944		
395493.89	3869684.89	0.04726		
395493.83	3869709.78	0.04490		
395493.76	3869734.67	0.04271		
395493.70	3869759.56	0.04061		
395493.64	3869784.45	0.03859		
395493.57	3869809.34	0.03665		

	395493.51	3869834.23	0.03480
395493.45	3869859.12	0.03304	
	395493.39	3869884.01	0.03137
395493.32	3869908.90	0.02979	
	395493.26	3869933.79	0.02831
395493.20	3869958.68	0.02692	
	395421.54	3869039.81	0.06566
395430.96	3869017.20	0.06724	
	395440.37	3868994.58	0.06872
395449.79	3868971.97	0.07017	
	395459.21	3868949.36	0.07149
395468.62	3868926.75	0.07265	
	395478.04	3868904.14	0.07354
395487.45	3868881.53	0.07420	
	395496.87	3868858.92	0.07464
395506.29	3868836.31	0.07482	
	395515.70	3868813.69	0.07478
395525.12	3868791.08	0.07454	
	395557.17	3868759.11	0.07671
395579.80	3868749.75	0.07896	
	395602.44	3868740.39	0.08121
395625.07	3868731.03	0.08335	
	395647.71	3868721.68	0.08526
395670.34	3868712.32	0.08710	
	395692.98	3868702.96	0.08868
395715.61	3868693.60	0.09001	
	395738.25	3868684.24	0.09165
395760.88	3868674.88	0.09278	
	395783.52	3868665.52	0.09405
395806.15	3868656.16	0.09535	
	395412.12	3869062.42	0.06398
395412.06	3869087.31	0.06371	
	395412.00	3869112.20	0.06332
395411.94	3869137.09	0.06283	
	395411.87	3869161.98	0.06222
395411.81	3869186.87	0.06151	
	395411.75	3869211.76	0.06072
395411.69	3869236.65	0.05987	
	395411.62	3869261.54	0.05895
395411.56	3869286.43	0.05798	
	395411.50	3869311.32	0.05696
395411.43	3869336.21	0.05579	
	395411.37	3869361.10	0.05450
395411.31	3869385.99	0.05331	
	395411.25	3869410.88	0.05207
395411.18	3869435.77	0.05076	
	395411.12	3869460.66	0.04941
395411.06	3869485.55	0.04801	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 87

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
395410.99	3869510.44	0.04657		
395410.93	3869535.33	0.04508		
395410.87	3869560.22	0.04356		
395410.81	3869585.11	0.04200		
395410.74	3869610.01	0.04042		
395410.68	3869634.90	0.03884		
395410.62	3869659.79	0.03727		
395410.56	3869684.68	0.03572		
395410.49	3869709.57	0.03422		
395410.43	3869734.46	0.03277		
395410.37	3869759.35	0.03137		
395410.30	3869784.24	0.03004		
395410.24	3869809.13	0.02876		
395410.18	3869834.02	0.02753		
395410.12	3869858.91	0.02625		
395410.05	3869883.80	0.02510		
395409.99	3869908.69	0.02402		
395409.93	3869933.58	0.02300		
395409.86	3869958.47	0.02204		
395337.97	3869040.16	0.05364		
395347.15	3869018.12	0.05499		
395356.33	3868996.07	0.05629		
395365.51	3868974.02	0.05752		
395374.70	3868951.98	0.05868		
395383.88	3868929.93	0.05976		
395393.06	3868907.89	0.06074		
395402.24	3868885.84	0.06162		
395411.42	3868863.79	0.06236		
395420.60	3868841.75	0.06297		
395429.78	3868819.70	0.06353		
395438.96	3868797.66	0.06389		
395448.14	3868775.61	0.06399		

	395457.32	3868753.56	0.06394
395466.50	3868731.52	0.06377	
	395497.75	3868700.35	0.06539
395519.82	3868691.22	0.06713	
	395541.89	3868682.10	0.06879
395563.96	3868672.97	0.07041	
	395586.03	3868663.85	0.07199
395608.10	3868654.72	0.07336	
	395630.17	3868645.60	0.07468
395652.24	3868636.47	0.07589	
	395674.31	3868627.35	0.07676
395696.37	3868618.22	0.07786	
	395718.44	3868609.10	0.07901
395740.51	3868599.97	0.08011	
	395762.58	3868590.85	0.08079
395784.65	3868581.72	0.08164	
	395806.72	3868572.60	0.08250
395328.79	3869062.21	0.05224	
	395328.73	3869087.10	0.05185
395328.67	3869111.99	0.05138	
	395328.60	3869136.88	0.05084
395328.54	3869161.77	0.05021	
	395328.48	3869186.66	0.04947
395328.41	3869211.55	0.04860	
	395328.35	3869236.44	0.04774
395328.29	3869261.33	0.04689	
	395328.23	3869286.22	0.04601
395328.16	3869311.11	0.04509	
	395328.10	3869336.00	0.04414
395328.04	3869360.89	0.04317	
	395327.98	3869385.78	0.04216
395327.91	3869410.67	0.04111	
	395327.85	3869435.56	0.04003
395327.79	3869460.45	0.03890	
	395327.72	3869485.34	0.03774
395327.66	3869510.23	0.03656	
	395327.60	3869535.12	0.03535
395327.54	3869560.01	0.03413	
	395327.47	3869584.90	0.03292
395327.41	3869609.80	0.03172	
	395327.35	3869634.69	0.03055
395327.28	3869659.58	0.02941	
	395327.22	3869684.47	0.02832
395327.16	3869709.36	0.02728	
	395327.10	3869734.25	0.02628
395327.03	3869759.14	0.02528	
	395326.97	3869784.03	0.02432
395326.91	3869808.92	0.02342	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 88

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
---	---	---	---	---
395326.85	3869833.81	0.02254		
395326.78	3869858.70	0.02171		
395326.72	3869883.59	0.02090		
395326.66	3869908.48	0.02012		
395326.59	3869933.37	0.01937		
395326.53	3869958.26	0.01866		
395097.15	3869017.49	0.03291		
395106.33	3868995.44	0.03370		
395115.52	3868973.39	0.03456		
395124.70	3868951.35	0.03538		
395133.88	3868929.30	0.03614		
395143.06	3868907.26	0.03692		
395152.24	3868885.21	0.03777		
395161.42	3868863.16	0.03855		
395170.60	3868841.12	0.03927		
395179.78	3868819.07	0.03995		
395188.96	3868797.02	0.04059		
395198.14	3868774.98	0.04117		
395207.32	3868752.93	0.04170		
395216.50	3868730.89	0.04216		
395225.68	3868708.84	0.04255		
395234.86	3868686.79	0.04286		
395244.04	3868664.75	0.04315		
395253.23	3868642.70	0.04334		
395262.41	3868620.66	0.04344		
395271.59	3868598.61	0.04345		
395280.77	3868576.56	0.04340		
395289.95	3868554.52	0.04332		
395321.20	3868523.35	0.04414		
395343.27	3868514.22	0.04518		
395365.34	3868505.10	0.04613		

	395387.41	3868495.97	0.04704
395409.48	3868486.85	0.04793	
	395431.54	3868477.72	0.04888
395453.61	3868468.60	0.04971	
	395475.68	3868459.47	0.05047
395497.75	3868450.35	0.05117	
	395519.82	3868441.22	0.05177
395541.89	3868432.10	0.05234	
	395563.96	3868422.97	0.05283
395586.03	3868413.85	0.05316	
	395608.10	3868404.72	0.05364
395630.17	3868395.60	0.05414	
	395652.24	3868386.47	0.05455
395674.31	3868377.35	0.05489	
	395696.37	3868368.22	0.05540
395718.44	3868359.10	0.05592	
	395740.51	3868349.97	0.05642
395762.58	3868340.85	0.05689	
	395784.65	3868331.72	0.05714
395806.72	3868322.60	0.05731	
	395078.79	3869061.58	0.03114
395078.73	3869086.47	0.03071	
	395078.67	3869111.36	0.03025
395078.60	3869136.25	0.02975	
	395078.54	3869161.14	0.02921
395078.48	3869186.03	0.02864	
	395078.42	3869210.92	0.02802
395078.35	3869235.81	0.02738	
	395078.29	3869260.70	0.02670
395078.23	3869285.59	0.02600	
	395078.16	3869310.48	0.02477
395078.10	3869335.37	0.02393	
	395078.04	3869360.26	0.02318
395077.98	3869385.15	0.02245	
	395077.91	3869410.04	0.02174
395077.85	3869434.93	0.02107	
	395077.79	3869459.82	0.02045
395077.73	3869484.71	0.01988	
	395077.66	3869509.60	0.01936
395077.60	3869534.49	0.01887	
	395077.54	3869559.38	0.01842
395077.47	3869584.27	0.01801	
	395077.41	3869609.16	0.01761
395077.35	3869634.05	0.01724	
	395077.29	3869658.95	0.01687
395077.22	3869683.84	0.01652	
	395077.16	3869708.73	0.01616
395077.10	3869733.62	0.01580	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 89

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
 **

X-COORD (M)	Y-COORD (M)	CONC	X-
395077.03	3869758.51	0.01544	
395076.97	3869783.40	0.01508	
395076.91	3869808.29	0.01471	
395076.85	3869833.18	0.01434	
395076.78	3869858.07	0.01391	
395076.72	3869882.96	0.01351	
395076.66	3869907.85	0.01314	
395076.60	3869932.74	0.01276	
395076.53	3869957.63	0.01240	
394838.27	3869038.19	0.02047	
394847.75	3869015.43	0.02115	
394857.22	3868992.68	0.02181	
394866.70	3868969.92	0.02246	
394876.18	3868947.16	0.02309	
394885.65	3868924.40	0.02370	
394895.13	3868901.65	0.02428	
394904.61	3868878.89	0.02489	
394914.08	3868856.13	0.02551	
394923.56	3868833.37	0.02612	
394933.04	3868810.62	0.02667	
394942.52	3868787.86	0.02717	
394951.99	3868765.10	0.02765	
394961.47	3868742.35	0.02812	
394970.95	3868719.59	0.02857	
394980.42	3868696.83	0.02899	
394989.90	3868674.07	0.02957	
394999.38	3868651.32	0.03044	
395008.85	3868628.56	0.03079	
395018.33	3868605.80	0.03109	
395027.81	3868583.04	0.03134	
395037.28	3868560.29	0.03154	
395046.76	3868537.53	0.03169	

	395056.24	3868514.77	0.03182
395065.71	3868492.02	0.03190	
	395075.19	3868469.26	0.03196
395084.67	3868446.50	0.03195	
	395094.14	3868423.74	0.03191
395103.62	3868400.99	0.03185	
	395113.10	3868378.23	0.03178
395145.36	3868346.05	0.03232	
	395168.14	3868336.63	0.03301
395190.92	3868327.21	0.03364	
	395213.70	3868317.79	0.03427
395236.48	3868308.37	0.03489	
	395259.26	3868298.96	0.03553
395282.04	3868289.54	0.03619	
	395304.82	3868280.12	0.03678
395327.61	3868270.70	0.03732	
	395350.39	3868261.28	0.03782
395373.17	3868251.86	0.03835	
	395395.95	3868242.44	0.03880
395418.73	3868233.02	0.03918	
	395441.51	3868223.60	0.03954
395464.29	3868214.18	0.03990	
	395487.07	3868204.76	0.04019
395509.85	3868195.34	0.04043	
	395532.64	3868185.92	0.04060
395555.42	3868176.50	0.04089	
	395578.20	3868167.08	0.04119
395600.98	3868157.66	0.04143	
	395623.76	3868148.24	0.04161
395646.54	3868138.83	0.04193	
	395669.32	3868129.41	0.04225
395692.10	3868119.99	0.04256	
	395714.88	3868110.57	0.04282
395737.67	3868101.15	0.04291	
	395760.45	3868091.73	0.04306
395783.23	3868082.31	0.04323	
	395806.01	3868072.89	0.04334
394828.79	3869060.95	0.01978	
	394828.73	3869085.84	0.01935
394828.67	3869110.73	0.01891	
	394828.60	3869135.62	0.01846
394828.54	3869160.51	0.01800	
	394828.48	3869185.40	0.01752
394828.42	3869210.29	0.01703	
	394828.35	3869235.18	0.01657
394828.29	3869260.07	0.01611	
	394828.23	3869284.96	0.01567
394828.17	3869309.85	0.01524	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 90

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
---	---	---	---	---
394828.10	3869334.74	0.01482		
394828.04	3869359.63	0.01443		
394827.98	3869384.52	0.01405		
394827.91	3869409.41	0.01369		
394827.85	3869434.30	0.01336		
394827.79	3869459.19	0.01305		
394827.73	3869484.08	0.01277		
394827.66	3869508.97	0.01250		
394827.60	3869533.86	0.01224		
394827.54	3869558.75	0.01203		
394827.47	3869583.64	0.01184		
394827.41	3869608.53	0.01167		
394827.35	3869633.42	0.01151		
394827.29	3869658.31	0.01136		
394827.22	3869683.20	0.01121		
394827.16	3869708.10	0.01107		
394827.10	3869732.99	0.01092		
394827.04	3869757.88	0.01077		
394826.97	3869782.77	0.01062		
394826.91	3869807.66	0.01046		
394826.85	3869832.55	0.01029		
394826.78	3869857.44	0.01012		
394826.72	3869882.33	0.00995		
394826.66	3869907.22	0.00976		
394826.60	3869932.11	0.00958		
394826.53	3869957.00	0.00938		
394447.92	3869014.00	0.01115		
394447.86	3869036.97	0.01076		
394447.80	3869059.94	0.01037		
394447.74	3869082.91	0.00998		
394447.68	3869105.88	0.00959		
394447.62	3869128.85	0.00920		
394447.56	3869151.82	0.00881		
394447.50	3869174.79	0.00842		
394447.44	3869197.76	0.00803		
394447.38	3869220.73	0.00764		
394447.32	3869243.70	0.00725		
394447.26	3869266.67	0.00686		
394447.20	3869289.64	0.00647		
394447.14	3869312.61	0.00608		
394447.08	3869335.58	0.00569		
394447.02	3869358.55	0.00530		
394446.96	3869381.52	0.00491		
394446.90	3869404.49	0.00452		
394446.84	3869427.46	0.00413		
394446.78	3869450.43	0.00374		
394446.72	3869473.40	0.00335		
394446.66	3869496.37	0.00296		
394446.60	3869519.34	0.00257		
394446.54	3869542.31	0.00218		
394446.48	3869565.28	0.00179		
394446.42	3869588.25	0.00140		
394446.36	3869611.22	0.00101		
394446.30	3869634.19	0.00062		
394446.24	3869657.16	0.00023		
394446.18	3869680.13	0.00000		

	394495.75	3868899.16	0.01327
394505.31	3868876.19	0.01379	
	394514.88	3868853.22	0.01427
394524.44	3868830.25	0.01475	
	394534.01	3868807.28	0.01523
394543.57	3868784.31	0.01573	
	394553.14	3868761.34	0.01624
394562.70	3868738.37	0.01676	
	394572.27	3868715.40	0.01722
394581.83	3868692.44	0.01764	
	394591.40	3868669.47	0.01805
394600.96	3868646.50	0.01843	
	394610.53	3868623.53	0.01882
394620.09	3868600.56	0.01926	
	394629.66	3868577.59	0.01963
394639.22	3868554.62	0.01993	
	394648.79	3868531.65	0.02020
394658.35	3868508.68	0.02044	
	394667.92	3868485.71	0.02066
394677.48	3868462.75	0.02084	
	394687.05	3868439.78	0.02099
394696.61	3868416.81	0.02111	
	394706.18	3868393.84	0.02118
394715.74	3868370.87	0.02122	
	394725.31	3868347.90	0.02127
394734.87	3868324.93	0.02129	
	394744.44	3868301.96	0.02129
394754.00	3868278.99	0.02123	
	394763.57	3868256.02	0.02112
394773.13	3868233.06	0.02098	
	394782.70	3868210.09	0.02084
394792.26	3868187.12	0.02069	
	394801.83	3868164.15	0.02054
394811.39	3868141.18	0.02042	
	394820.96	3868118.21	0.02038
394830.52	3868095.24	0.02037	
	394863.08	3868062.77	0.02058
394886.08	3868053.26	0.02095	
	394909.07	3868043.75	0.02141
394932.06	3868034.24	0.02262	
	394955.05	3868024.74	0.02302
394978.05	3868015.23	0.02343	
	395001.04	3868005.72	0.02387
395024.03	3867996.22	0.02434	
	395047.03	3867986.71	0.02476
395070.02	3867977.20	0.02518	
	395093.01	3867967.70	0.02562
395116.01	3867958.19	0.02605	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 91

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

 *** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
395139.00	3867948.68	0.02643		
395161.99	3867939.17	0.02679		
395184.99	3867929.67	0.02716		
395207.98	3867920.16	0.02750		
395230.97	3867910.65	0.02778		
395253.96	3867901.15	0.02804		
395276.96	3867891.64	0.02831		
395299.95	3867882.13	0.02854		
395322.94	3867872.62	0.02874		
395345.94	3867863.12	0.02892		
395368.93	3867853.61	0.02905		
395391.92	3867844.10	0.02913		
395414.92	3867834.60	0.02918		
395437.91	3867825.09	0.02928		
395460.90	3867815.58	0.02932		
395483.89	3867806.08	0.02938		
395506.89	3867796.57	0.02942		
395529.88	3867787.06	0.02950		
395552.87	3867777.55	0.02957		
395575.87	3867768.05	0.02965		
395598.86	3867758.54	0.02972		
395621.85	3867749.03	0.02979		
395644.85	3867739.53	0.02985		
395667.84	3867730.02	0.02990		
395690.83	3867720.51	0.02994		
395713.82	3867711.01	0.02997		
395736.82	3867701.50	0.02999		
395759.81	3867691.99	0.03000		
395782.80	3867682.48	0.02995		
395805.80	3867672.98	0.02987		
394428.73	3869059.94	0.01040		
394428.73	3869084.83	0.01018		

	394428.67	3869109.72	0.01000
394428.61	3869134.61	0.00983	
	394428.54	3869159.50	0.00968
394428.48	3869184.39	0.00954	
	394428.42	3869209.28	0.00941
394428.36	3869234.17	0.00929	
	394428.29	3869259.06	0.00918
394428.23	3869283.95	0.00907	
	394428.17	3869308.84	0.00897
394428.10	3869333.73	0.00886	
	394428.04	3869358.62	0.00877
394427.98	3869383.51	0.00865	
	394427.92	3869408.40	0.00854
394427.85	3869433.29	0.00842	
	394427.79	3869458.18	0.00830
394427.73	3869483.07	0.00817	
	394427.66	3869507.96	0.00804
394427.60	3869532.85	0.00791	
	394427.54	3869557.74	0.00777
394427.48	3869582.63	0.00763	
	394427.41	3869607.53	0.00750
394427.35	3869632.42	0.00737	
	394427.29	3869657.31	0.00725
394427.23	3869682.20	0.00713	
	394427.16	3869707.09	0.00702
394427.10	3869731.98	0.00692	
	394427.04	3869756.87	0.00683
394426.97	3869781.76	0.00675	
	394426.91	3869806.65	0.00667
394426.85	3869831.54	0.00660	
	394426.79	3869856.43	0.00654
394426.72	3869881.32	0.00649	
	394426.66	3869906.21	0.00643
394426.60	3869931.10	0.00638	
	394426.53	3869955.99	0.00633
394038.24	3869036.25	0.00679	
	394047.68	3869013.58	0.00689
394057.12	3868990.90	0.00700	
	394066.57	3868968.23	0.00714
394076.01	3868945.55	0.00730	
	394085.45	3868922.87	0.00747
394094.90	3868900.20	0.00766	
	394104.34	3868877.52	0.00786
394113.78	3868854.85	0.00809	
	394123.23	3868832.17	0.00834
394132.67	3868809.49	0.00862	
	394142.11	3868786.82	0.00893
394151.55	3868764.14	0.00926	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 92

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
394161.00	3868741.47	0.00958		
394170.44	3868718.79	0.00991		
394179.88	3868696.11	0.01026		
394189.33	3868673.44	0.01061		
394198.77	3868650.76	0.01097		
394208.21	3868628.09	0.01134		
394217.66	3868605.41	0.01174		
394227.10	3868582.73	0.01215		
394236.54	3868560.06	0.01256		
394245.98	3868537.38	0.01292		
394255.43	3868514.71	0.01327		
394264.87	3868492.03	0.01360		
394274.31	3868469.35	0.01394		
394283.76	3868446.68	0.01429		
394293.20	3868424.00	0.01462		
394302.64	3868401.33	0.01492		
394312.09	3868378.65	0.01516		
394321.53	3868355.97	0.01536		
394330.97	3868333.30	0.01557		
394340.41	3868310.62	0.01573		
394349.86	3868287.95	0.01588		
394359.30	3868265.27	0.01599		
394368.74	3868242.59	0.01607		
394378.19	3868219.92	0.01612		
394387.63	3868197.24	0.01615		
394397.07	3868174.57	0.01616		
394406.52	3868151.89	0.01609		
394415.96	3868129.21	0.01602		
394425.40	3868106.54	0.01593		
394434.84	3868083.86	0.01582		
394444.29	3868061.19	0.01577		
394453.73	3868038.51	0.01562		

	394463.17	3868015.83	0.01544
394472.62	3867993.16	0.01525	
	394482.06	3867970.48	0.01505
394491.50	3867947.81	0.01491	
	394500.95	3867925.13	0.01477
394510.39	3867902.45	0.01463	
	394519.83	3867879.78	0.01446
394529.27	3867857.10	0.01433	
	394538.72	3867834.43	0.01421
394548.16	3867811.75	0.01415	
	394580.30	3867779.69	0.01434
394603.00	3867770.30	0.01453	
	394625.70	3867760.92	0.01475
394648.40	3867751.53	0.01510	
	394671.10	3867742.14	0.01543
394693.80	3867732.76	0.01572	
	394716.50	3867723.37	0.01604
394739.20	3867713.99	0.01648	
	394761.90	3867704.60	0.01688
394784.60	3867695.22	0.01724	
	394807.30	3867685.83	0.01761
394830.00	3867676.44	0.01809	
	394852.70	3867667.06	0.01904
394875.40	3867657.67	0.01938	
	394898.10	3867648.29	0.01975
394920.80	3867638.90	0.02007	
	394943.50	3867629.52	0.02038
394966.20	3867620.13	0.02067	
	394988.90	3867610.74	0.02095
395011.60	3867601.36	0.02120	
	395034.30	3867591.97	0.02146
395057.00	3867582.59	0.02169	
	395079.70	3867573.20	0.02188
395102.40	3867563.81	0.02204	
	395125.10	3867554.43	0.02220
395147.80	3867545.04	0.02233	
	395170.50	3867535.66	0.02242
395193.20	3867526.27	0.02248	
	395215.90	3867516.89	0.02253
395238.60	3867507.50	0.02255	
	395261.30	3867498.11	0.02256
395284.00	3867488.73	0.02259	
	395306.70	3867479.34	0.02258
395329.40	3867469.96	0.02255	
	395352.10	3867460.57	0.02251
395374.79	3867451.19	0.02247	
	395397.49	3867441.80	0.02243
395420.19	3867432.41	0.02241	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 93

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
395442.89	3867423.03	0.02237		
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395488.29	3867404.26	0.02228		
395510.99	3867394.87	0.02225		
395533.69	3867385.49	0.02223		
395556.39	3867376.10	0.02218		
395579.09	3867366.71	0.02220		
395601.79	3867357.33	0.02221		
395624.49	3867347.94	0.02224		
395647.19	3867338.56	0.02228		
395669.89	3867329.17	0.02232		
395692.59	3867319.78	0.02237		
395715.29	3867310.40	0.02241		
395737.99	3867301.01	0.02246		
395760.69	3867291.63	0.02251		
395783.39	3867282.24	0.02255		
395806.09	3867272.86	0.02260		
394028.80	3869058.93	0.00669		
394028.73	3869083.82	0.00665		
394028.67	3869108.71	0.00662		
394028.61	3869133.60	0.00659		
394028.54	3869158.49	0.00657		
394028.48	3869183.38	0.00655		
394028.42	3869208.27	0.00652		
394028.36	3869233.16	0.00649		
394028.29	3869258.05	0.00646		
394028.23	3869282.94	0.00644		
394028.17	3869307.83	0.00640		
394028.11	3869332.72	0.00637		
394028.04	3869357.61	0.00633		
394027.98	3869382.50	0.00628		
394027.92	3869407.39	0.00624		

	394027.85	3869432.28	0.00619
394027.79	3869457.17	0.00613	
	394027.73	3869482.06	0.00607
394027.67	3869506.96	0.00600	
	394027.60	3869531.85	0.00592
394027.54	3869556.74	0.00584	
	394027.48	3869581.63	0.00576
394027.41	3869606.52	0.00567	
	394027.35	3869631.41	0.00557
394027.29	3869656.30	0.00547	
	394027.23	3869681.19	0.00537
394027.16	3869706.08	0.00527	
	394027.10	3869730.97	0.00517
394027.04	3869755.86	0.00506	
	394026.98	3869780.75	0.00495
394026.91	3869805.64	0.00485	
	394026.85	3869830.53	0.00476
394026.79	3869855.42	0.00467	
	394026.72	3869880.31	0.00459
394026.66	3869905.20	0.00452	
	394026.60	3869930.09	0.00445
394026.54	3869954.98	0.00440	
	393638.30	3869035.10	0.00509
393647.81	3869012.27	0.00513	
	393657.31	3868989.45	0.00516
393666.82	3868966.62	0.00520	
	393676.32	3868943.80	0.00525
393685.83	3868920.98	0.00530	
	393695.33	3868898.15	0.00535
393704.83	3868875.33	0.00542	
	393714.34	3868852.50	0.00549
393723.84	3868829.68	0.00557	
	393733.35	3868806.85	0.00566
393742.85	3868784.03	0.00576	
	393752.36	3868761.21	0.00588
393761.86	3868738.38	0.00603	
	393771.37	3868715.56	0.00619
393780.87	3868692.73	0.00636	
	393790.38	3868669.91	0.00654
393799.88	3868647.09	0.00674	
	393809.39	3868624.26	0.00695
393818.89	3868601.44	0.00717	
	393828.40	3868578.61	0.00737
393837.90	3868555.79	0.00761	
	393847.41	3868532.96	0.00785
393856.91	3868510.14	0.00812	
	393866.42	3868487.32	0.00839
393875.92	3868464.49	0.00867	

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 94

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S):      AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

			** CONC OF ALL	IN
			**	
MICROGRAMS/M**3				
X-COORD (M)	Y-COORD (M)	CONC		X-
393885.42	3868441.67	0.00896		
393894.93	3868418.84	0.00925		
393904.43	3868396.02	0.00954		
393913.94	3868373.19	0.00982		
393923.44	3868350.37	0.01010		
393932.95	3868327.55	0.01038		
393942.45	3868304.72	0.01065		
393951.96	3868281.90	0.01090		
393961.46	3868259.07	0.01115		
393970.97	3868236.25	0.01138		
393980.47	3868213.43	0.01159		
393989.98	3868190.60	0.01189		
393999.48	3868167.78	0.01214		
394008.99	3868144.95	0.01231		
394018.49	3868122.13	0.01246		
394028.00	3868099.30	0.01271		
394037.50	3868076.48	0.01284		
394047.00	3868053.66	0.01291		
394056.51	3868030.83	0.01295		
394066.01	3868008.01	0.01301		
394075.52	3867985.18	0.01310		
394085.02	3867962.36	0.01309		
394094.53	3867939.53	0.01303		
394104.03	3867916.71	0.01294		
394113.54	3867893.89	0.01283		
394123.04	3867871.06	0.01277		
394132.55	3867848.24	0.01268		
394142.05	3867825.41	0.01251		
394151.56	3867802.59	0.01232		
394161.06	3867779.77	0.01213		
394170.57	3867756.94	0.01192		
394180.07	3867734.12	0.01172		

	394189.58	3867711.29	0.01155
394199.08	3867688.47	0.01138	
	394208.59	3867665.64	0.01122
394218.09	3867642.82	0.01105	
	394227.59	3867620.00	0.01088
394237.10	3867597.17	0.01073	
	394246.60	3867574.35	0.01060
394256.11	3867551.52	0.01050	
	394265.61	3867528.70	0.01049
394297.97	3867496.43	0.01053	
	394320.81	3867486.98	0.01066
394343.66	3867477.53	0.01081	
	394366.51	3867468.09	0.01098
394389.36	3867458.64	0.01120	
	394412.21	3867449.19	0.01150
394435.05	3867439.74	0.01176	
	394457.90	3867430.30	0.01202
394480.75	3867420.85	0.01231	
	394503.60	3867411.40	0.01270
394526.45	3867401.96	0.01304	
	394549.30	3867392.51	0.01337
394572.14	3867383.06	0.01378	
	394594.99	3867373.61	0.01414
394617.84	3867364.17	0.01447	
	394640.69	3867354.72	0.01480
394663.54	3867345.27	0.01514	
	394686.38	3867335.83	0.01554
394709.23	3867326.38	0.01585	
	394732.08	3867316.93	0.01613
394754.93	3867307.48	0.01642	
	394777.78	3867298.04	0.01695
394800.62	3867288.59	0.01716	
	394823.47	3867279.14	0.01736
394846.32	3867269.70	0.01755	
	394869.17	3867260.25	0.01773
394892.02	3867250.80	0.01787	
	394914.87	3867241.36	0.01799
394937.71	3867231.91	0.01808	
	394960.56	3867222.46	0.01816
394983.41	3867213.01	0.01821	
	395006.26	3867203.57	0.01826
395029.11	3867194.12	0.01829	
	395051.95	3867184.67	0.01829
395074.80	3867175.23	0.01826	
	395097.65	3867165.78	0.01823
395120.50	3867156.33	0.01818	
	395143.35	3867146.88	0.01812
395166.19	3867137.44	0.01808	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 95

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-

395189.04	3867127.99	0.01800		
395211.89	3867118.54	0.01792		
395234.74	3867109.10	0.01784		
395257.59	3867099.65	0.01776		
395280.44	3867090.20	0.01768		
395303.28	3867080.75	0.01761		
395326.13	3867071.31	0.01755		
395348.98	3867061.86	0.01749		
395371.83	3867052.41	0.01744		
395394.68	3867042.97	0.01743		
395417.52	3867033.52	0.01743		
395440.37	3867024.07	0.01742		
395463.22	3867014.62	0.01743		
395486.07	3867005.18	0.01745		
395508.92	3866995.73	0.01748		
395531.76	3866986.28	0.01752		
395554.61	3866976.84	0.01759		
395577.46	3866967.39	0.01765		
395600.31	3866957.94	0.01771		
395623.16	3866948.49	0.01778		
395646.01	3866939.05	0.01786		
395668.85	3866929.60	0.01793		
395691.70	3866920.15	0.01800		
395714.55	3866910.71	0.01805		
395737.40	3866901.26	0.01813		
395760.25	3866891.81	0.01821		
395783.09	3866882.36	0.01828		
395805.94	3866872.92	0.01835		
393628.80	3869057.92	0.00506		
393628.73	3869082.81	0.00506		
393628.67	3869107.70	0.00505		
393628.61	3869132.59	0.00505		

	393628.55	3869157.48	0.00505
393628.48	3869182.37	0.00505	
	393628.42	3869207.26	0.00504
393628.36	3869232.15	0.00504	
	393628.29	3869257.04	0.00503
393628.23	3869281.93	0.00503	
	393628.17	3869306.82	0.00502
393628.11	3869331.71	0.00500	
	393628.04	3869356.60	0.00499
393627.98	3869381.49	0.00497	
	393627.92	3869406.39	0.00494
393627.86	3869431.28	0.00491	
	393627.79	3869456.17	0.00488
393627.73	3869481.06	0.00485	
	393627.67	3869505.95	0.00481
393627.60	3869530.84	0.00477	
	393627.54	3869555.73	0.00472
393627.48	3869580.62	0.00466	
	393627.42	3869605.51	0.00461
393627.35	3869630.40	0.00454	
	393627.29	3869655.29	0.00448
393627.23	3869680.18	0.00441	
	393627.16	3869705.07	0.00433
393627.10	3869729.96	0.00425	
	393627.04	3869754.85	0.00417
393626.98	3869779.74	0.00408	
	393626.91	3869804.63	0.00399
393626.85	3869829.52	0.00390	
	393626.79	3869854.41	0.00380
393626.73	3869879.30	0.00371	
	393626.66	3869904.19	0.00361
393626.60	3869929.08	0.00351	
	393626.54	3869953.97	0.00342
393238.35	3869033.98	0.00410	
	393247.89	3869011.06	0.00411
393257.44	3868988.13	0.00413	
	393266.99	3868965.20	0.00414
393276.54	3868942.27	0.00416	
	393286.09	3868919.34	0.00417
393295.63	3868896.42	0.00419	
	393305.18	3868873.49	0.00421
393314.73	3868850.56	0.00423	
	393324.28	3868827.63	0.00426
393333.83	3868804.70	0.00429	
	393343.37	3868781.78	0.00432
393352.92	3868758.85	0.00436	
	393362.47	3868735.92	0.00440
393372.02	3868712.99	0.00445	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 96

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN

X-COORD (M)	Y-COORD (M)	CONC	X-
393381.57	3868690.06	0.00451	
393391.11	3868667.14	0.00457	
393400.66	3868644.21	0.00464	
393410.21	3868621.28	0.00472	
393419.76	3868598.35	0.00480	
393429.30	3868575.43	0.00490	
393438.85	3868552.50	0.00502	
393448.40	3868529.57	0.00515	
393457.95	3868506.64	0.00529	
393467.50	3868483.71	0.00544	
393477.04	3868460.79	0.00560	
393486.59	3868437.86	0.00576	
393496.14	3868414.93	0.00595	
393505.69	3868392.00	0.00614	
393515.24	3868369.07	0.00634	
393524.78	3868346.15	0.00655	
393534.33	3868323.22	0.00676	
393543.88	3868300.29	0.00699	
393553.43	3868277.36	0.00723	
393562.98	3868254.43	0.00752	
393572.52	3868231.51	0.00778	
393582.07	3868208.58	0.00802	
393591.62	3868185.65	0.00826	
393601.17	3868162.72	0.00850	
393610.72	3868139.79	0.00874	
393620.26	3868116.87	0.00900	
393629.81	3868093.94	0.00927	
393639.36	3868071.01	0.00953	
393648.91	3868048.08	0.00968	
393658.45	3868025.15	0.00987	
393668.00	3868002.23	0.01010	
393677.55	3867979.30	0.01026	

	393687.10	3867956.37	0.01041
393696.65	3867933.44	0.01054	
	393706.19	3867910.51	0.01065
393715.74	3867887.59	0.01081	
	393725.29	3867864.66	0.01093
393734.84	3867841.73	0.01100	
	393744.39	3867818.80	0.01103
393753.93	3867795.87	0.01103	
	393763.48	3867772.95	0.01101
393773.03	3867750.02	0.01097	
	393782.58	3867727.09	0.01090
393792.13	3867704.16	0.01082	
	393801.67	3867681.23	0.01075
393811.22	3867658.31	0.01068	
	393820.77	3867635.38	0.01057
393830.32	3867612.45	0.01042	
	393839.87	3867589.52	0.01025
393849.41	3867566.59	0.01007	
	393858.96	3867543.67	0.00989
393868.51	3867520.74	0.00971	
	393878.06	3867497.81	0.00952
393887.61	3867474.88	0.00936	
	393897.15	3867451.95	0.00920
393906.70	3867429.03	0.00905	
	393916.25	3867406.10	0.00888
393925.80	3867383.17	0.00871	
	393935.34	3867360.24	0.00856
393944.89	3867337.32	0.00842	
	393954.44	3867314.39	0.00830
393963.99	3867291.46	0.00820	
	393973.54	3867268.53	0.00812
393983.08	3867245.60	0.00808	
	394015.58	3867213.19	0.00812
394038.54	3867203.70	0.00820	
	394061.49	3867194.21	0.00831
394084.44	3867184.72	0.00849	
	394107.39	3867175.23	0.00864
394130.34	3867165.73	0.00880	
	394153.30	3867156.24	0.00899
394176.25	3867146.75	0.00922	
	394199.20	3867137.26	0.00941
394222.15	3867127.77	0.00967	
	394245.10	3867118.28	0.00994
394268.06	3867108.79	0.01024	
	394291.01	3867099.30	0.01052
394313.96	3867089.81	0.01080	
	394336.91	3867080.32	0.01111
394359.86	3867070.83	0.01148	

*** AERMOD - VERSION 16216r *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 ***
*** 18:08:39

PAGE 97

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL IN	
		**	
X-COORD (M)	Y-COORD (M)	CONC	X-
394382.82	3867061.34	0.01177	
394405.77	3867051.85	0.01205	
394428.72	3867042.36	0.01234	
394451.67	3867032.87	0.01266	
394474.62	3867023.38	0.01297	
394497.58	3867013.89	0.01323	
394520.53	3867004.40	0.01346	
394543.48	3866994.91	0.01369	
394566.43	3866985.42	0.01398	
394589.38	3866975.93	0.01417	
394612.34	3866966.44	0.01434	
394635.29	3866956.95	0.01451	
394658.24	3866947.46	0.01469	
394681.19	3866937.97	0.01482	
394704.14	3866928.48	0.01493	
394727.10	3866918.99	0.01501	
394750.05	3866909.50	0.01507	
394773.00	3866900.01	0.01512	
394795.95	3866890.52	0.01519	
394818.90	3866881.03	0.01530	
394841.86	3866871.54	0.01530	
394864.81	3866862.05	0.01528	
394887.76	3866852.56	0.01527	
394910.71	3866843.07	0.01523	
394933.66	3866833.58	0.01519	
394956.62	3866824.09	0.01513	
394979.57	3866814.60	0.01506	
395002.52	3866805.11	0.01498	
395025.47	3866795.62	0.01490	
395048.42	3866786.13	0.01481	
395071.37	3866776.64	0.01472	
395094.33	3866767.15	0.01463	

	395117.28	3866757.66	0.01455
395140.23	3866748.17	0.01447	
	395163.18	3866738.68	0.01440
395186.13	3866729.19	0.01434	
	395209.09	3866719.70	0.01428
395232.04	3866710.21	0.01423	
	395254.99	3866700.72	0.01419
395277.94	3866691.23	0.01415	
	395300.89	3866681.74	0.01413
395323.85	3866672.25	0.01413	
	395346.80	3866662.76	0.01415
395369.75	3866653.27	0.01417	
	395392.70	3866643.78	0.01420
395415.65	3866634.29	0.01423	
	395438.61	3866624.80	0.01428
395461.56	3866615.31	0.01434	
	395484.51	3866605.82	0.01442
395507.46	3866596.33	0.01451	
	395530.41	3866586.84	0.01458
395553.37	3866577.35	0.01466	
	395576.32	3866567.86	0.01475
395599.27	3866558.37	0.01484	
	395622.22	3866548.88	0.01493
395645.17	3866539.39	0.01503	
	395668.13	3866529.90	0.01511
395691.08	3866520.41	0.01520	
	395714.03	3866510.92	0.01528
395736.98	3866501.43	0.01536	
	395759.93	3866491.94	0.01544
395782.89	3866482.45	0.01551	
	395805.84	3866472.96	0.01557
393228.80	3869056.91	0.00409	
	393228.74	3869081.80	0.00410
393228.67	3869106.69	0.00410	
	393228.61	3869131.58	0.00411
393228.55	3869156.47	0.00412	
	393228.48	3869181.36	0.00413
393228.42	3869206.25	0.00413	
	393228.36	3869231.14	0.00413
393228.30	3869256.03	0.00413	
	393228.23	3869280.92	0.00414
393228.17	3869305.82	0.00413	
	393228.11	3869330.71	0.00413
393228.04	3869355.60	0.00413	
	393227.98	3869380.49	0.00412
393227.92	3869405.38	0.00411	
	393227.86	3869430.27	0.00410
393227.79	3869455.16	0.00408	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***          10/09/17
*** AERMET - VERSION 14134 ***    ***
***          18:08:39

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PAGE 98
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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                ** CONC OF ALL      IN
                **
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
393227.73	3869480.05	0.00406	
393227.67	3869504.94	0.00403	
393227.61	3869529.83	0.00401	
393227.54	3869554.72	0.00397	
393227.48	3869579.61	0.00394	
393227.42	3869604.50	0.00389	
393227.35	3869629.39	0.00384	
393227.29	3869654.28	0.00379	
393227.23	3869679.17	0.00373	
393227.17	3869704.06	0.00367	
393227.10	3869728.95	0.00361	
393227.04	3869753.84	0.00354	
393226.98	3869778.73	0.00347	
393226.91	3869803.62	0.00340	
393226.85	3869828.51	0.00332	
393226.79	3869853.40	0.00325	
393226.73	3869878.29	0.00317	
393226.66	3869903.18	0.00309	
393226.60	3869928.07	0.00300	
393226.54	3869952.96	0.00292	
395826.53	3869984.52	0.12657	
395851.47	3869984.52	0.18277	
395876.42	3869984.52	0.24658	
395901.36	3869984.52	0.29863	
395926.31	3869984.52	0.34121	
395951.25	3869984.53	0.37980	
395976.20	3869984.53	0.40789	
396001.14	3869984.53	0.43181	
396026.09	3869984.53	0.45281	
396051.03	3869984.53	0.47120	
396075.98	3869984.53	0.48760	
396100.92	3869984.53	0.50274	

	396125.87	3869984.53	0.52287
396150.81	3869984.53	0.53611	
	396175.75	3869984.54	0.54703
396200.70	3869984.54	0.55707	
	396225.64	3869984.54	0.56630
396250.59	3869984.54	0.57525	
	396275.53	3869984.54	0.58679
396300.48	3869984.54	0.59255	
	396325.42	3869984.54	0.59871
396350.37	3869984.54	0.60425	
	396375.31	3869984.54	0.60922
396400.26	3869984.55	0.61356	
	396425.20	3869984.55	0.61747
396450.15	3869984.55	0.62070	
	396475.09	3869984.55	0.62310
396500.04	3869984.55	0.62164	
	396524.98	3869984.55	0.61628
396549.93	3869984.55	0.61658	
	396574.87	3869984.55	0.61588
396599.82	3869984.55	0.61369	
	396624.76	3869984.56	0.60483
396649.70	3869984.56	0.59415	
	396674.65	3869984.56	0.58478
396699.59	3869984.56	0.56979	
	396724.54	3869984.56	0.54349
395808.83	3870002.17	0.09072	
	395851.47	3870009.52	0.12787
395876.42	3870009.52	0.16384	
	395901.36	3870009.52	0.20011
395926.31	3870009.52	0.23343	
	395951.25	3870009.53	0.26423
395976.20	3870009.53	0.28887	
	396001.14	3870009.53	0.31039
396026.09	3870009.53	0.32939	
	396051.03	3870009.53	0.34629
396075.97	3870009.53	0.36143	
	396100.92	3870009.53	0.37507
396125.86	3870009.53	0.38806	
	396150.81	3870009.53	0.40184
396175.75	3870009.54	0.41313	
	396200.70	3870009.54	0.42260
396225.64	3870009.54	0.43126	
	396250.59	3870009.54	0.43925
396275.53	3870009.54	0.44729	
	396300.48	3870009.54	0.45508
396325.42	3870009.54	0.46061	
	396350.37	3870009.54	0.46612
396375.31	3870009.54	0.47107	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 99

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396400.26	3870009.55	0.47542		
396425.20	3870009.55	0.47934		
396450.15	3870009.55	0.48268		
396475.09	3870009.55	0.48546		
396500.04	3870009.55	0.48726		
396524.98	3870009.55	0.48744		
396549.92	3870009.55	0.48532		
396574.87	3870009.55	0.48527		
396599.81	3870009.55	0.48421		
396624.76	3870009.56	0.48154		
396649.70	3870009.56	0.47626		
396674.65	3870009.56	0.46850		
396699.59	3870009.56	0.46079		
396724.54	3870009.56	0.44580		
395808.83	3870027.17	0.07791		
395766.13	3869994.77	0.06965		
395851.47	3870034.52	0.10163		
395876.42	3870034.52	0.12372		
395901.36	3870034.52	0.14848		
395926.31	3870034.52	0.17341		
395951.25	3870034.53	0.19729		
395976.19	3870034.53	0.21967		
396001.14	3870034.53	0.23893		
396026.08	3870034.53	0.25615		
396051.03	3870034.53	0.27172		
396075.97	3870034.53	0.28584		
396100.92	3870034.53	0.29870		
396125.86	3870034.53	0.31043		
396150.81	3870034.53	0.32324		
396175.75	3870034.54	0.33400		
396200.70	3870034.54	0.34311		
396225.64	3870034.54	0.35148		

	396250.59	3870034.54	0.35917
396275.53	3870034.54	0.36624	
	396300.48	3870034.54	0.37355
396325.42	3870034.54	0.38004	
	396350.37	3870034.54	0.38520
396375.31	3870034.54	0.39012	
	396400.26	3870034.55	0.39450
396425.20	3870034.55	0.39838	
	396450.14	3870034.55	0.40175
396475.09	3870034.55	0.40458	
	396500.03	3870034.55	0.40687
396524.98	3870034.55	0.40837	
	396549.92	3870034.55	0.40857
396574.87	3870034.55	0.40730	
	396599.81	3870034.55	0.40648
396624.76	3870034.56	0.40494	
	396649.70	3870034.56	0.40176
396674.65	3870034.56	0.39666	
	396699.59	3870034.56	0.39058
396724.54	3870034.56	0.38036	
	395808.83	3870052.17	0.06862
395773.43	3870037.48	0.05985	
	395748.43	3870012.42	0.05798
395851.47	3870059.52	0.08560	
	395876.41	3870059.52	0.10067
395901.36	3870059.52	0.11814	
	395926.30	3870059.52	0.13674
395951.25	3870059.53	0.15528	
	395976.19	3870059.53	0.17376
396001.14	3870059.53	0.19104	
	396026.08	3870059.53	0.20658
396051.03	3870059.53	0.22066	
	396075.97	3870059.53	0.23361
396100.92	3870059.53	0.24554	
	396125.86	3870059.53	0.25653
396150.81	3870059.53	0.26749	
	396175.75	3870059.54	0.27778
396200.70	3870059.54	0.28694	
	396225.64	3870059.54	0.29496
396250.59	3870059.54	0.30238	
	396275.53	3870059.54	0.30924
396300.48	3870059.54	0.31555	
	396325.42	3870059.54	0.32204
396350.36	3870059.54	0.32762	
	396375.31	3870059.54	0.33221
396400.25	3870059.55	0.33650	
	396425.20	3870059.55	0.34035
396450.14	3870059.55	0.34371	

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 100

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3

	X-COORD (M)	Y-COORD (M)	CONC	X-
	COORD (M)	Y-COORD (M)	CONC	
	396475.09	3870059.55	0.34659	
396500.03	3870059.55		0.34898	
	396524.98	3870059.55	0.35087	
396549.92	3870059.55		0.35215	
	396574.87	3870059.55	0.35195	
396599.81	3870059.55		0.35172	
	396624.76	3870059.56	0.35076	
396649.70	3870059.56		0.34877	
	396674.65	3870059.56	0.34528	
396699.59	3870059.56		0.33947	
	396724.54	3870059.56	0.33233	
395805.28	3870100.71		0.05505	
	395784.05	3870091.89	0.05164	
395762.81	3870083.08		0.04846	
	395741.57	3870074.26	0.04556	
395711.57	3870044.19		0.04405	
	395702.81	3870022.93	0.04531	
395694.05	3870001.66		0.04669	
	395685.29	3869980.40	0.04820	
395826.52	3870109.52		0.05857	
	395851.47	3870109.52	0.06609	
395876.41	3870109.52		0.07487	
	395901.36	3870109.52	0.08485	
395926.30	3870109.52		0.09591	
	395951.25	3870109.53	0.10770	
395976.19	3870109.53		0.11978	
	396001.14	3870109.53	0.13176	
396026.08	3870109.53		0.14413	
	396051.03	3870109.53	0.15590	
396075.97	3870109.53		0.16649	
	396100.92	3870109.53	0.17649	
396125.86	3870109.53		0.18589	

	396150.80	3870109.53	0.19471
396175.75	3870109.54	0.20297	
	396200.69	3870109.54	0.21120
396225.64	3870109.54	0.21933	
	396250.58	3870109.54	0.22627
396275.53	3870109.54	0.23259	
	396300.47	3870109.54	0.23847
396325.42	3870109.54	0.24392	
	396350.36	3870109.54	0.24895
396375.31	3870109.54	0.25385	
	396400.25	3870109.55	0.25843
396425.20	3870109.55	0.26213	
	396450.14	3870109.55	0.26551
396475.09	3870109.55	0.26851	
	396500.03	3870109.55	0.27107
396524.98	3870109.55	0.27317	
	396549.92	3870109.55	0.27479
396574.86	3870109.55	0.27587	
	396599.81	3870109.55	0.27638
396624.75	3870109.56	0.27623	
	396649.70	3870109.56	0.27538
396674.64	3870109.56	0.27367	
	396699.59	3870109.56	0.27098
396724.53	3870109.56	0.26721	
	395806.29	3870151.13	0.04695
395765.84	3870134.34	0.04237	
	395725.38	3870117.55	0.03824
395676.58	3870080.51	0.03534	
	395659.90	3870040.01	0.03687
395643.22	3869999.51	0.03860	
	395851.47	3870159.52	0.05421
395876.41	3870159.52	0.06015	
	395901.36	3870159.52	0.06689
395926.30	3870159.52	0.07412	
	395951.24	3870159.53	0.08198
395976.19	3870159.53	0.09033	
	396001.13	3870159.53	0.09896
396026.08	3870159.53	0.10778	
	396051.02	3870159.53	0.11682
396075.97	3870159.53	0.12577	
	396100.91	3870159.53	0.13396
396125.86	3870159.53	0.14183	
	396150.80	3870159.53	0.14935
396175.75	3870159.54	0.15650	
	396200.69	3870159.54	0.16331
396225.64	3870159.54	0.16980	
	396250.58	3870159.54	0.17610
396275.53	3870159.54	0.18260	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***               10/09/17
*** AERMET - VERSION 14134 ***   ***
***              18:08:39

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PAGE 101

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):          AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
X-COORD (M)	Y-COORD (M)	CONC	X-	
396300.47	3870159.54	0.18813		
396325.42	3870159.54	0.19320		
396350.36	3870159.54	0.19792		
396375.30	3870159.54	0.20230		
396400.25	3870159.55	0.20635		
396425.19	3870159.55	0.21024		
396450.14	3870159.55	0.21362		
396475.08	3870159.55	0.21682		
396500.03	3870159.55	0.21932		
396524.97	3870159.55	0.22151		
396549.92	3870159.55	0.22330		
396574.86	3870159.55	0.22465		
396599.81	3870159.55	0.22556		
396624.75	3870159.56	0.22597		
396649.70	3870159.56	0.22584		
396674.64	3870159.56	0.22513		
396699.59	3870159.56	0.22381		
396724.53	3870159.56	0.22186		
395804.39	3870200.34	0.04070		
395782.27	3870191.16	0.03879		
395760.15	3870181.98	0.03691		
395738.02	3870172.79	0.03509		
395715.90	3870163.61	0.03339		
395693.77	3870154.43	0.03169		
395671.65	3870145.25	0.03013		
395640.40	3870113.92	0.02936		
395631.28	3870091.77	0.02994		
395622.15	3870069.63	0.03061		
395613.03	3870047.48	0.03124		
395603.90	3870025.33	0.03189		
395594.78	3870003.18	0.03259		
395585.66	3869981.04	0.03334		

	395826.52	3870209.52	0.04264
395851.46	3870209.52	0.04626	
	395876.41	3870209.52	0.05036
395901.35	3870209.52	0.05514	
	395926.30	3870209.52	0.06054
395951.24	3870209.53	0.06612	
	395976.19	3870209.53	0.07209
396001.13	3870209.53	0.07840	
	396026.08	3870209.53	0.08493
396051.02	3870209.53	0.09174	
	396075.97	3870209.53	0.09875
396100.91	3870209.53	0.10567	
	396125.86	3870209.53	0.11218
396150.80	3870209.53	0.11851	
	396175.74	3870209.54	0.12462
396200.69	3870209.54	0.13052	
	396225.63	3870209.54	0.13618
396250.58	3870209.54	0.14159	
	396275.52	3870209.54	0.14675
396300.47	3870209.54	0.15197	
	396325.41	3870209.54	0.15698
396350.36	3870209.54	0.16154	
	396375.30	3870209.54	0.16563
396400.25	3870209.55	0.16943	
	396425.19	3870209.55	0.17293
396450.14	3870209.55	0.17613	
	396475.08	3870209.55	0.17902
396500.03	3870209.55	0.18175	
	396524.97	3870209.55	0.18417
396549.92	3870209.55	0.18599	
	396574.86	3870209.55	0.18753
396599.81	3870209.55	0.18870	
	396624.75	3870209.56	0.18946
396649.69	3870209.56	0.18981	
	396674.64	3870209.56	0.18975
396699.58	3870209.56	0.18928	
	396724.53	3870209.56	0.18836
395805.06	3870283.95	0.03346	
	395783.61	3870275.05	0.03221
395762.15	3870266.14	0.03092	
	395740.70	3870257.24	0.02956
395719.25	3870248.34	0.02834	
	395697.79	3870239.43	0.02718
395676.34	3870230.53	0.02609	
	395654.89	3870221.63	0.02506
395633.43	3870212.73	0.02410	
	395611.98	3870203.82	0.02319
395581.68	3870173.44	0.02265	

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 102

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S):      AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3

** CONC OF ALL IN

**

	X-COORD (M)	Y-COORD (M)	CONC	X-
395572.83	3870151.97	0.02297		
395563.98	3870130.49	0.02333		
395555.13	3870109.01	0.02371		
395546.29	3870087.54	0.02410		
395537.44	3870066.06	0.02453		
395528.59	3870044.58	0.02503		
395519.74	3870023.11	0.02544		
395510.89	3870001.63	0.02591		
395502.05	3869980.16	0.02641		
395826.52	3870292.85	0.03472		
395851.46	3870292.85	0.03714		
395876.40	3870292.86	0.03983		
395901.35	3870292.86	0.04281		
395926.29	3870292.86	0.04612		
395951.24	3870292.86	0.04985		
395976.18	3870292.86	0.05368		
396001.13	3870292.86	0.05769		
396026.07	3870292.86	0.06188		
396051.02	3870292.86	0.06626		
396075.96	3870292.86	0.07079		
396100.91	3870292.87	0.07542		
396125.85	3870292.87	0.08043		
396150.80	3870292.87	0.08526		
396175.74	3870292.87	0.08994		
396200.69	3870292.87	0.09451		
396225.63	3870292.87	0.09898		
396250.58	3870292.87	0.10333		
396275.52	3870292.87	0.10753		
396300.46	3870292.87	0.11157		
396325.41	3870292.88	0.11545		
396350.35	3870292.88	0.11915		
396375.30	3870292.88	0.12275		

	396400.24	3870292.88	0.12645
396425.19	3870292.88	0.12968	
	396450.13	3870292.88	0.13259
396475.08	3870292.88	0.13526	
	396500.02	3870292.88	0.13769
396524.97	3870292.88	0.13988	
	396549.91	3870292.89	0.14181
396574.86	3870292.89	0.14348	
	396599.80	3870292.89	0.14487
396624.75	3870292.89	0.14599	
	396649.69	3870292.89	0.14684
396674.64	3870292.89	0.14744	
	396699.58	3870292.89	0.14778
396724.53	3870292.89	0.14783	
	395803.82	3870366.77	0.02824
395781.13	3870357.35	0.02728	
	395758.44	3870347.94	0.02627
395735.75	3870338.52	0.02522	
	395713.05	3870329.10	0.02426
395690.36	3870319.69	0.02332	
	395667.67	3870310.27	0.02242
395644.98	3870300.85	0.02157	
	395622.29	3870291.44	0.02078
395599.60	3870282.02	0.02004	
	395576.91	3870272.60	0.01884
395554.22	3870263.19	0.01809	
	395522.17	3870231.05	0.01770
395512.81	3870208.34	0.01799	
	395503.45	3870185.62	0.01824
395494.09	3870162.91	0.01852	
	395484.73	3870140.19	0.01890
395475.37	3870117.48	0.01925	
	395466.02	3870094.76	0.01998
395456.66	3870072.05	0.02028	
	395447.30	3870049.33	0.02058
395437.94	3870026.62	0.02091	
	395428.58	3870003.90	0.02126
395419.22	3869981.18	0.02164	
	395826.51	3870376.19	0.02922
395851.46	3870376.19	0.03097	
	395876.40	3870376.19	0.03290
395901.35	3870376.19	0.03502	
	395926.29	3870376.19	0.03732
395951.24	3870376.19	0.03980	
	395976.18	3870376.19	0.04242
396001.12	3870376.19	0.04536	
	396026.07	3870376.20	0.04834
396051.01	3870376.20	0.05136	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 103

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396100.90	3870376.20	0.05450		
396125.85	3870376.20	0.05775		
396150.79	3870376.20	0.06109		
396175.74	3870376.20	0.06450		
396200.68	3870376.20	0.06816		
396225.63	3870376.20	0.07181		
396250.57	3870376.21	0.07528		
396275.52	3870376.21	0.07869		
396300.46	3870376.21	0.08205		
396325.41	3870376.21	0.08533		
396350.35	3870376.21	0.08851		
396375.30	3870376.21	0.09158		
396400.24	3870376.21	0.09454		
396425.18	3870376.21	0.09737		
396450.13	3870376.21	0.10006		
396475.07	3870376.22	0.10261		
396500.02	3870376.22	0.10523		
396524.96	3870376.22	0.10766		
396549.91	3870376.22	0.10970		
396574.85	3870376.22	0.11154		
396599.80	3870376.22	0.11319		
396624.74	3870376.22	0.11464		
396649.69	3870376.22	0.11591		
396674.63	3870376.22	0.11701		
396699.58	3870376.22	0.11793		
396724.52	3870376.23	0.11867		
395804.38	3870450.34	0.11921		
395782.26	3870441.16	0.02436		
395760.14	3870431.98	0.02363		
395738.01	3870422.79	0.02290		
395715.89	3870413.61	0.02218		
		0.02144		

	395693.76	3870404.43	0.02071
395671.64	3870395.25	0.01953	
	395649.52	3870386.07	0.01881
395627.39	3870376.89	0.01809	
	395605.27	3870367.71	0.01744
395583.14	3870358.53	0.01688	
	395561.02	3870349.34	0.01636
395538.90	3870340.16	0.01588	
	395516.77	3870330.98	0.01542
395494.65	3870321.80	0.01498	
	395463.40	3870290.47	0.01472
395454.27	3870268.32	0.01491	
	395445.15	3870246.18	0.01511
395436.03	3870224.03	0.01534	
	395426.90	3870201.88	0.01558
395417.78	3870179.73	0.01582	
	395408.65	3870157.59	0.01605
395399.53	3870135.44	0.01626	
	395390.40	3870113.29	0.01646
395381.28	3870091.14	0.01666	
	395372.15	3870069.00	0.01688
395363.03	3870046.85	0.01713	
	395353.91	3870024.70	0.01742
395344.78	3870002.55	0.01775	
	395335.66	3869980.41	0.01810
395826.51	3870459.52	0.02512	
	395851.45	3870459.52	0.02645
395876.40	3870459.52	0.02797	
	395901.34	3870459.52	0.02962
395926.29	3870459.52	0.03135	
	395951.23	3870459.53	0.03321
395976.18	3870459.53	0.03517	
	396001.12	3870459.53	0.03721
396026.07	3870459.53	0.03935	
	396051.01	3870459.53	0.04163
396075.95	3870459.53	0.04401	
	396100.90	3870459.53	0.04635
396125.84	3870459.53	0.04877	
	396150.79	3870459.53	0.05125
396175.73	3870459.54	0.05380	
	396200.68	3870459.54	0.05639
396225.62	3870459.54	0.05902	
	396250.57	3870459.54	0.06165
396275.51	3870459.54	0.06434	
	396300.46	3870459.54	0.06716
396325.40	3870459.54	0.06982	
	396350.35	3870459.54	0.07236
396375.29	3870459.54	0.07484	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 104

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396400.24	3870459.55	0.07723		
396425.18	3870459.55	0.07954		
396450.13	3870459.55	0.08174		
396475.07	3870459.55	0.08382		
396500.02	3870459.55	0.08578		
396524.96	3870459.55	0.08761		
396549.90	3870459.55	0.08930		
396574.85	3870459.55	0.09092		
396599.79	3870459.55	0.09255		
396624.74	3870459.56	0.09395		
396649.68	3870459.56	0.09514		
396674.63	3870459.56	0.09620		
396699.57	3870459.56	0.09714		
396724.52	3870459.56	0.09791		
395804.37	3870700.34	0.01670		
395782.25	3870691.16	0.01637		
395760.12	3870681.98	0.01606		
395738.00	3870672.79	0.01573		
395715.88	3870663.61	0.01538		
395693.75	3870654.43	0.01501		
395671.63	3870645.25	0.01460		
395649.50	3870636.07	0.01418		
395627.38	3870626.89	0.01371		
395605.26	3870617.71	0.01324		
395583.13	3870608.53	0.01275		
395561.01	3870599.34	0.01234		
395538.88	3870590.16	0.01196		
395516.76	3870580.98	0.01160		
395494.64	3870571.80	0.01127		
395472.51	3870562.62	0.01097		
395450.39	3870553.44	0.01064		
395428.26	3870544.26	0.01036		

	395406.14	3870535.08	0.01014
395384.02	3870525.89	0.00993	
	395361.89	3870516.71	0.00973
395339.77	3870507.53	0.00951	
	395317.64	3870498.35	0.00927
395286.40	3870467.02	0.00922	
	395277.27	3870444.87	0.00933
395268.15	3870422.73	0.00946	
	395259.02	3870400.58	0.00960
395249.90	3870378.43	0.00975	
	395240.77	3870356.28	0.00993
395231.65	3870334.14	0.01007	
	395222.52	3870311.99	0.01023
395213.40	3870289.84	0.01042	
	395204.28	3870267.69	0.01058
395195.15	3870245.55	0.01072	
	395186.03	3870223.40	0.01082
395176.90	3870201.25	0.01090	
	395167.78	3870179.10	0.01097
395158.65	3870156.96	0.01106	
	395149.53	3870134.81	0.01117
395140.40	3870112.66	0.01131	
	395131.28	3870090.51	0.01144
395122.15	3870068.37	0.01158	
	395113.03	3870046.22	0.01173
395103.91	3870024.07	0.01189	
	395094.78	3870001.92	0.01205
395085.66	3869979.78	0.01222	
	395826.50	3870709.52	0.01702
395851.44	3870709.52	0.01778	
	395876.39	3870709.52	0.01925
395901.33	3870709.52	0.02006	
	395926.28	3870709.52	0.02093
395951.22	3870709.53	0.02185	
	395976.16	3870709.53	0.02283
396001.11	3870709.53	0.02385	
	396026.05	3870709.53	0.02490
396051.00	3870709.53	0.02598	
	396075.94	3870709.53	0.02708
396100.89	3870709.53	0.02820	
	396125.83	3870709.53	0.02941
396150.78	3870709.53	0.03055	
	396175.72	3870709.54	0.03170
396200.67	3870709.54	0.03286	
	396225.61	3870709.54	0.03405
396250.56	3870709.54	0.03526	
	396275.50	3870709.54	0.03649
396300.45	3870709.54	0.03775	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 105

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396325.39	3870709.54	0.03902		
396350.34	3870709.54	0.04032		
396375.28	3870709.54	0.04162		
396400.23	3870709.55	0.04292		
396425.17	3870709.55	0.04421		
396450.11	3870709.55	0.04550		
396475.06	3870709.55	0.04677		
396500.00	3870709.55	0.04808		
396524.95	3870709.55	0.04942		
396549.89	3870709.55	0.05063		
396574.84	3870709.55	0.05182		
396599.78	3870709.55	0.05299		
396624.73	3870709.56	0.05413		
396649.67	3870709.56	0.05524		
396674.62	3870709.56	0.05631		
396699.56	3870709.56	0.05730		
396724.51	3870709.56	0.05822		
395803.65	3870950.04	0.01273		
395780.81	3870940.57	0.01255		
395757.97	3870931.09	0.01238		
395735.13	3870921.61	0.01220		
395712.30	3870912.13	0.01202		
395689.46	3870902.66	0.01177		
395666.62	3870893.18	0.01153		
395643.78	3870883.70	0.01124		
395620.95	3870874.22	0.01097		
395598.11	3870864.75	0.01069		
395575.27	3870855.27	0.01040		
395552.43	3870845.79	0.01011		
395529.60	3870836.31	0.00983		
395506.76	3870826.84	0.00954		
395483.92	3870817.36	0.00927		

	395461.08	3870807.88	0.00899
395438.24	3870798.40	0.00873	
	395415.41	3870788.93	0.00844
395392.57	3870779.45	0.00820	
	395369.73	3870769.97	0.00800
395346.89	3870760.49	0.00781	
	395324.06	3870751.02	0.00764
395301.22	3870741.54	0.00748	
	395278.38	3870732.06	0.00733
395255.54	3870722.58	0.00718	
	395232.70	3870713.11	0.00700
395209.87	3870703.63	0.00687	
	395187.03	3870694.15	0.00676
395164.19	3870684.67	0.00665	
	395141.35	3870675.20	0.00655
395109.10	3870642.86	0.00646	
	395099.68	3870619.99	0.00652
395090.26	3870597.13	0.00656	
	395080.84	3870574.27	0.00654
395071.42	3870551.41	0.00645	
	395062.00	3870528.55	0.00607
395052.58	3870505.68	0.00581	
	395043.17	3870482.82	0.00561
395033.75	3870459.96	0.00553	
	395024.33	3870437.10	0.00571
395014.91	3870414.24	0.00611	
	395005.49	3870391.38	0.00668
394996.07	3870368.51	0.00731	
	394986.65	3870345.65	0.00780
394977.23	3870322.79	0.00791	
	394967.82	3870299.93	0.00797
394958.40	3870277.07	0.00800	
	394948.98	3870254.20	0.00803
394939.56	3870231.34	0.00806	
	394930.14	3870208.48	0.00816
394920.72	3870185.62	0.00825	
	394911.30	3870162.76	0.00833
394901.88	3870139.89	0.00842	
	394892.46	3870117.03	0.00853
394883.05	3870094.17	0.00864	
	394873.63	3870071.31	0.00877
394864.21	3870048.45	0.00893	
	394854.79	3870025.58	0.00906
394845.37	3870002.72	0.00918	
	394835.95	3869979.86	0.00929
395826.49	3870959.52	0.01292	
	395851.43	3870959.52	0.01329
395876.37	3870959.52	0.01374	

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 106

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*** MODELOPTs:      RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S):      AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
395901.32	3870959.52	0.01428		
395926.26	3870959.52	0.01485		
395951.21	3870959.53	0.01542		
395976.15	3870959.53	0.01605		
396001.10	3870959.53	0.01671		
396026.04	3870959.53	0.01739		
396050.99	3870959.53	0.01809		
396075.93	3870959.53	0.01879		
396100.88	3870959.53	0.01948		
396125.82	3870959.53	0.02016		
396150.77	3870959.53	0.02089		
396175.71	3870959.54	0.02155		
396200.66	3870959.54	0.02219		
396225.60	3870959.54	0.02326		
396250.55	3870959.54	0.02388		
396275.49	3870959.54	0.02450		
396300.44	3870959.54	0.02511		
396325.38	3870959.54	0.02573		
396350.32	3870959.54	0.02635		
396375.27	3870959.54	0.02698		
396400.21	3870959.55	0.02762		
396425.16	3870959.55	0.02827		
396450.10	3870959.55	0.02898		
396475.05	3870959.55	0.02972		
396499.99	3870959.55	0.03044		
396524.94	3870959.55	0.03114		
396549.88	3870959.55	0.03185		
396574.83	3870959.55	0.03272		
396599.77	3870959.55	0.03354		
396624.72	3870959.56	0.03434		
396649.66	3870959.56	0.03515		
396674.61	3870959.56	0.03595		

	396699.55	3870959.56	0.03674
396724.50	3870959.56	0.03751	
	395803.94	3871350.17	0.00921
395781.42	3871340.82	0.00910	
	395758.89	3871331.48	0.00898
395736.36	3871322.13	0.00887	
	395713.84	3871312.78	0.00876
395691.31	3871303.43	0.00864	
	395668.78	3871294.08	0.00852
395646.26	3871284.73	0.00840	
	395623.73	3871275.39	0.00827
395601.20	3871266.04	0.00813	
	395578.68	3871256.69	0.00798
395556.15	3871247.34	0.00783	
	395533.63	3871237.99	0.00763
395511.10	3871228.64	0.00747	
	395488.57	3871219.30	0.00729
395466.05	3871209.95	0.00714	
	395443.52	3871200.60	0.00698
395420.99	3871191.25	0.00683	
	395398.47	3871181.90	0.00669
395375.94	3871172.56	0.00654	
	395353.42	3871163.21	0.00640
395330.89	3871153.86	0.00626	
	395308.36	3871144.51	0.00613
395285.84	3871135.16	0.00601	
	395263.31	3871125.81	0.00589
395240.78	3871116.47	0.00577	
	395218.26	3871107.12	0.00567
395195.73	3871097.77	0.00557	
	395173.21	3871088.42	0.00545
395150.68	3871079.07	0.00537	
	395128.15	3871069.73	0.00528
395105.63	3871060.38	0.00521	
	395083.10	3871051.03	0.00513
395060.57	3871041.68	0.00506	
	395038.05	3871032.33	0.00498
395015.52	3871022.98	0.00491	
	394992.99	3871013.64	0.00480
394970.47	3871004.29	0.00472	
	394947.94	3870994.94	0.00464
394925.42	3870985.59	0.00456	
	394902.89	3870976.24	0.00448
394880.36	3870966.89	0.00437	
	394857.84	3870957.55	0.00427
394826.02	3870925.65	0.00419	
	394816.73	3870903.10	0.00420
394807.44	3870880.55	0.00422	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 107

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL   ***
                INCLUDING SOURCE(S):   AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
394798.15	3870858.00	0.00425		
394788.86	3870835.45	0.00427		
394779.57	3870812.90	0.00429		
394770.28	3870790.35	0.00435		
394760.99	3870767.80	0.00442		
394751.70	3870745.25	0.00447		
394742.41	3870722.70	0.00453		
394733.12	3870700.15	0.00461		
394723.83	3870677.60	0.00466		
394714.54	3870655.05	0.00465		
394705.25	3870632.50	0.00460		
394695.96	3870609.95	0.00452		
394686.66	3870587.39	0.00444		
394677.37	3870564.84	0.00431		
394668.08	3870542.29	0.00418		
394658.79	3870519.74	0.00402		
394649.50	3870497.19	0.00391		
394640.21	3870474.64	0.00403		
394630.92	3870452.09	0.00423		
394621.63	3870429.54	0.00449		
394612.34	3870406.99	0.00477		
394603.05	3870384.44	0.00503		
394593.76	3870361.89	0.00525		
394584.47	3870339.34	0.00546		
394575.18	3870316.79	0.00563		
394565.89	3870294.24	0.00572		
394556.60	3870271.69	0.00584		
394547.31	3870249.14	0.00595		
394538.02	3870226.59	0.00603		
394528.73	3870204.04	0.00611		
394519.44	3870181.49	0.00617		
394510.15	3870158.94	0.00621		

	394500.86	3870136.39	0.00623
394491.57	3870113.84	0.00625	
	394482.28	3870091.29	0.00627
394472.99	3870068.74	0.00629	
	394463.70	3870046.19	0.00631
394454.41	3870023.64	0.00633	
	394445.12	3870001.09	0.00634
394435.82	3869978.54	0.00633	
	395826.47	3871359.52	0.00933
395851.41	3871359.52	0.00953	
	395876.36	3871359.52	0.00974
395901.30	3871359.52	0.00999	
	395926.25	3871359.52	0.01028
395951.19	3871359.53	0.01063	
	395976.14	3871359.53	0.01093
396001.08	3871359.53	0.01126	
	396026.03	3871359.53	0.01160
396050.97	3871359.53	0.01195	
	396075.91	3871359.53	0.01231
396100.86	3871359.53	0.01267	
	396125.80	3871359.53	0.01302
396150.75	3871359.53	0.01347	
	396175.69	3871359.54	0.01385
396200.64	3871359.54	0.01417	
	396225.58	3871359.54	0.01448
396250.53	3871359.54	0.01478	
	396275.47	3871359.54	0.01506
396300.42	3871359.54	0.01532	
	396325.36	3871359.54	0.01557
396350.31	3871359.54	0.01586	
	396375.25	3871359.54	0.01619
396400.20	3871359.55	0.01641	
	396425.14	3871359.55	0.01664
396450.09	3871359.55	0.01687	
	396475.03	3871359.55	0.01710
396499.98	3871359.55	0.01735	
	396524.92	3871359.55	0.01761
396549.86	3871359.55	0.01790	
	396574.81	3871359.55	0.01821
396599.75	3871359.55	0.01855	
	396624.70	3871359.56	0.01891
396649.64	3871359.56	0.01930	
	396674.59	3871359.56	0.01975
396699.53	3871359.56	0.02081	
	396724.48	3871359.56	0.02121
395803.69	3871750.08	0.00728	
	395780.94	3871740.63	0.00722
395758.18	3871731.19	0.00719	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 108

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
395735.43	3871721.75	0.00714		
395712.67	3871712.30	0.00708		
395689.91	3871702.86	0.00701		
395667.16	3871693.41	0.00694		
395644.40	3871683.97	0.00686		
395621.64	3871674.53	0.00677		
395598.89	3871665.08	0.00667		
395576.13	3871655.64	0.00654		
395553.38	3871646.20	0.00642		
395530.62	3871636.75	0.00632		
395507.86	3871627.31	0.00615		
395485.11	3871617.87	0.00599		
395462.35	3871608.42	0.00586		
395439.60	3871598.98	0.00573		
395416.84	3871589.53	0.00560		
395394.08	3871580.09	0.00545		
395371.33	3871570.65	0.00531		
395348.57	3871561.20	0.00521		
395325.81	3871551.76	0.00511		
395303.06	3871542.32	0.00502		
395280.30	3871532.87	0.00493		
395257.55	3871523.43	0.00484		
395234.79	3871513.99	0.00476		
395212.03	3871504.54	0.00466		
395189.28	3871495.10	0.00457		
395166.52	3871485.66	0.00448		
395143.77	3871476.21	0.00440		
395121.01	3871466.77	0.00434		
395098.25	3871457.32	0.00427		
395075.50	3871447.88	0.00422		
395052.74	3871438.44	0.00416		
395029.98	3871428.99	0.00410		

	395007.23	3871419.55	0.00406
394984.47	3871410.11	0.00403	
	394961.72	3871400.66	0.00401
394938.96	3871391.22	0.00399	
	394916.20	3871381.78	0.00396
394893.45	3871372.33	0.00394	
	394870.69	3871362.89	0.00390
394847.94	3871353.44	0.00388	
	394825.18	3871344.00	0.00385
394802.42	3871334.56	0.00382	
	394779.67	3871325.11	0.00379
394756.91	3871315.67	0.00372	
	394734.15	3871306.23	0.00367
394711.40	3871296.78	0.00361	
	394688.64	3871287.34	0.00355
394665.89	3871277.90	0.00346	
	394643.13	3871268.45	0.00338
394620.37	3871259.01	0.00331	
	394597.62	3871249.56	0.00324
394574.86	3871240.12	0.00317	
	394542.72	3871207.90	0.00308
394533.34	3871185.12	0.00305	
	394523.95	3871162.34	0.00303
394514.56	3871139.56	0.00301	
	394505.18	3871116.78	0.00300
394495.79	3871094.00	0.00300	
	394486.41	3871071.22	0.00300
394477.02	3871048.44	0.00300	
	394467.64	3871025.65	0.00302
394458.25	3871002.87	0.00306	
	394448.87	3870980.09	0.00309
394439.48	3870957.31	0.00313	
	394430.10	3870934.53	0.00319
394420.71	3870911.75	0.00324	
	394411.33	3870888.97	0.00331
394401.94	3870866.19	0.00337	
	394392.56	3870843.41	0.00343
394383.17	3870820.63	0.00349	
	394373.79	3870797.85	0.00354
394364.40	3870775.07	0.00356	
	394355.02	3870752.29	0.00355
394345.63	3870729.51	0.00350	
	394336.25	3870706.73	0.00341
394326.86	3870683.95	0.00330	
	394317.48	3870661.17	0.00315
394308.09	3870638.39	0.00303	
	394298.71	3870615.61	0.00298
394289.32	3870592.83	0.00312	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 109

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

 *** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-

394270.55	3870547.27	0.00342		
394251.78	3870501.71	0.00378		
394233.01	3870456.15	0.00409		
394214.24	3870410.59	0.00424		
394195.47	3870365.03	0.00429		
394176.70	3870319.47	0.00442		
394157.93	3870273.90	0.00448		
394139.16	3870228.34	0.00445		
394120.39	3870182.78	0.00444		
394101.62	3870137.22	0.00444		
394082.85	3870091.66	0.00441		
394064.08	3870046.10	0.00439		
394045.31	3870000.54	0.00438		
395826.45	3871759.52	0.00733		
395876.34	3871759.52	0.00751		
395926.23	3871759.52	0.00773		

	395951.17	3871759.53	0.00785
395976.12	3871759.53	0.00799	
	396001.06	3871759.53	0.00815
396026.01	3871759.53	0.00832	
	396050.95	3871759.53	0.00851
396075.90	3871759.53	0.00873	
	396100.84	3871759.53	0.00901
396125.79	3871759.53	0.00924	
	396150.73	3871759.53	0.00947
396175.68	3871759.54	0.00969	
	396200.62	3871759.54	0.00991
396225.57	3871759.54	0.01013	
	396250.51	3871759.54	0.01033
396275.45	3871759.54	0.01052	
	396300.40	3871759.54	0.01069
396325.34	3871759.54	0.01086	
	396350.29	3871759.54	0.01102
396375.23	3871759.54	0.01119	
	396400.18	3871759.55	0.01145
396425.12	3871759.55	0.01162	
	396450.07	3871759.55	0.01177
396475.01	3871759.55	0.01193	
	396499.96	3871759.55	0.01208
396524.90	3871759.55	0.01224	
	396549.85	3871759.55	0.01240
396574.79	3871759.55	0.01256	
	396599.74	3871759.55	0.01279
396624.68	3871759.56	0.01300	
	396649.63	3871759.56	0.01317
396674.57	3871759.56	0.01334	
	396699.52	3871759.56	0.01351
396724.46	3871759.56	0.01368	
	395803.53	3872150.01	0.00578
395780.62	3872140.51	0.00578	
	395757.72	3872131.00	0.00578
395734.81	3872121.50	0.00577	
	395711.91	3872111.99	0.00576
395689.00	3872102.49	0.00574	
	395666.10	3872092.98	0.00572
395643.19	3872083.48	0.00569	
	395620.29	3872073.97	0.00564
395597.38	3872064.47	0.00560	
	395574.48	3872054.96	0.00554
395551.57	3872045.46	0.00548	
	395528.67	3872035.95	0.00540
395505.76	3872026.45	0.00533	
	395482.86	3872016.94	0.00524
395459.95	3872007.43	0.00512	

*** AERMOD - VERSION 16216r *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 ***
*** 18:08:39

PAGE 110

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC	X-	
395437.05	3871997.93	0.00498		
395414.14	3871988.42	0.00488		
395391.24	3871978.92	0.00476		
395368.33	3871969.41	0.00465		
395345.43	3871959.91	0.00454		
395322.52	3871950.40	0.00444		
395299.62	3871940.90	0.00434		
395276.71	3871931.39	0.00424		
395253.81	3871921.89	0.00414		
395230.91	3871912.38	0.00402		
395208.00	3871902.88	0.00394		
395185.10	3871893.37	0.00386		
395162.19	3871883.87	0.00379		
395139.29	3871874.36	0.00372		
395116.38	3871864.85	0.00365		
395093.48	3871855.35	0.00357		
395070.57	3871845.84	0.00349		
395047.67	3871836.34	0.00344		
395024.76	3871826.83	0.00338		
395001.86	3871817.33	0.00334		
394978.95	3871807.82	0.00330		
394956.05	3871798.32	0.00326		
394933.14	3871788.81	0.00323		
394910.24	3871779.31	0.00321		
394887.33	3871769.80	0.00319		
394864.43	3871760.30	0.00318		
394841.52	3871750.79	0.00315		
394818.62	3871741.29	0.00317		
394795.71	3871731.78	0.00316		
394772.81	3871722.27	0.00315		
394749.90	3871712.77	0.00315		
394727.00	3871703.26	0.00316		

	394704.09	3871693.76	0.00315
394681.19	3871684.25	0.00315	
	394658.28	3871674.75	0.00314
394635.38	3871665.24	0.00314	
	394612.47	3871655.74	0.00312
394589.57	3871646.23	0.00309	
	394566.66	3871636.73	0.00308
394543.76	3871627.22	0.00306	
	394520.85	3871617.72	0.00303
394497.95	3871608.21	0.00299	
	394475.04	3871598.71	0.00293
394452.14	3871589.20	0.00289	
	394429.23	3871579.69	0.00284
394406.33	3871570.19	0.00278	
	394383.42	3871560.68	0.00271
394360.52	3871551.18	0.00265	
	394337.61	3871541.67	0.00260
394314.71	3871532.17	0.00253	
	394291.80	3871522.66	0.00246
394259.45	3871490.23	0.00239	
	394250.01	3871467.30	0.00237
394240.56	3871444.37	0.00234	
	394231.11	3871421.44	0.00231
394221.67	3871398.51	0.00229	
	394212.22	3871375.58	0.00226
394202.77	3871352.65	0.00224	
	394193.33	3871329.72	0.00223
394183.88	3871306.79	0.00222	
	394174.43	3871283.87	0.00221
394164.99	3871260.94	0.00222	
	394155.54	3871238.01	0.00223
394146.10	3871215.08	0.00225	
	394136.65	3871192.15	0.00227
394127.20	3871169.22	0.00231	
	394117.76	3871146.29	0.00236
394108.31	3871123.36	0.00242	
	394098.86	3871100.43	0.00249
394089.42	3871077.50	0.00257	
	394079.97	3871054.57	0.00262
394070.52	3871031.64	0.00263	
	394061.08	3871008.71	0.00265
394051.63	3870985.79	0.00271	
	394042.18	3870962.86	0.00276
394032.74	3870939.93	0.00281	
	394023.29	3870917.00	0.00284
394013.84	3870894.07	0.00288	
	394004.40	3870871.14	0.00293
393994.95	3870848.21	0.00297	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 111

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
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393985.50	3870825.28	0.00296		
393976.06	3870802.35	0.00300		
393966.61	3870779.42	0.00298		
393957.16	3870756.49	0.00291		
393947.72	3870733.56	0.00283		
393938.27	3870710.64	0.00273		
393928.83	3870687.71	0.00268		
393919.38	3870664.78	0.00267		
393909.93	3870641.85	0.00272		
393900.49	3870618.92	0.00283		
393891.04	3870595.99	0.00296		
393881.59	3870573.06	0.00311		
393872.15	3870550.13	0.00324		
393862.70	3870527.20	0.00328		
393853.25	3870504.27	0.00326		
393843.81	3870481.34	0.00323		
393834.36	3870458.41	0.00320		
393824.91	3870435.48	0.00308		
393815.47	3870412.56	0.00307		
393806.02	3870389.63	0.00311		
393796.57	3870366.70	0.00316		
393787.13	3870343.77	0.00318		
393777.68	3870320.84	0.00320		
393768.23	3870297.91	0.00320		
393758.79	3870274.98	0.00318		
393749.34	3870252.05	0.00314		
393739.90	3870229.12	0.00310		
393730.45	3870206.19	0.00307		
393721.00	3870183.26	0.00306		
393711.56	3870160.33	0.00306		
393702.11	3870137.40	0.00309		
393692.66	3870114.48	0.00313		

	393683.22	3870091.55	0.00316
393673.77	3870068.62	0.00320	
	393664.32	3870045.69	0.00324
393654.88	3870022.76	0.00327	
	393645.43	3869999.83	0.00332
393635.98	3869976.90	0.00336	
	395826.43	3872159.52	0.00577
395851.38	3872159.52	0.00580	
	395876.32	3872159.52	0.00583
395901.27	3872159.52	0.00588	
	395926.21	3872159.52	0.00595
395951.16	3872159.53	0.00603	
	395976.10	3872159.53	0.00611
396001.05	3872159.53	0.00622	
	396025.99	3872159.53	0.00635
396050.93	3872159.53	0.00649	
	396075.88	3872159.53	0.00664
396100.82	3872159.53	0.00679	
	396125.77	3872159.53	0.00696
396150.71	3872159.53	0.00712	
	396175.66	3872159.54	0.00728
396200.60	3872159.54	0.00744	
	396225.55	3872159.54	0.00760
396250.49	3872159.54	0.00775	
	396275.44	3872159.54	0.00790
396300.38	3872159.54	0.00804	
	396325.33	3872159.54	0.00820
396350.27	3872159.54	0.00837	
	396375.22	3872159.54	0.00853
396400.16	3872159.55	0.00866	
	396425.11	3872159.55	0.00879
396450.05	3872159.55	0.00892	
	396474.99	3872159.55	0.00905
396499.94	3872159.55	0.00918	
	396524.88	3872159.55	0.00930
396549.83	3872159.55	0.00943	
	396574.77	3872159.55	0.00963
396599.72	3872159.55	0.00978	
	396624.66	3872159.56	0.00989
396649.61	3872159.56	0.01001	
	396674.55	3872159.56	0.01012
396699.50	3872159.56	0.01023	
	396724.44	3872159.56	0.01033
395803.41	3872549.97	0.00384	
	395780.40	3872540.42	0.00409
395757.39	3872530.87	0.00430	
	395734.38	3872521.33	0.00447
395711.37	3872511.78	0.00462	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 112

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
395688.36	3872502.23	0.00469		
395665.35	3872492.68	0.00474		
395642.34	3872483.13	0.00476		
395619.33	3872473.58	0.00476		
395596.32	3872464.03	0.00476		
395573.32	3872454.49	0.00474		
395550.31	3872444.94	0.00471		
395527.30	3872435.39	0.00468		
395504.29	3872425.84	0.00464		
395481.28	3872416.29	0.00460		
395458.27	3872406.74	0.00454		
395435.26	3872397.19	0.00448		
395412.25	3872387.65	0.00442		
395389.24	3872378.10	0.00432		
395366.23	3872368.55	0.00424		
395343.23	3872359.00	0.00414		
395320.22	3872349.45	0.00406		
395297.21	3872339.90	0.00397		
395274.20	3872330.36	0.00389		
395251.19	3872320.81	0.00380		
395228.18	3872311.26	0.00372		
395205.17	3872301.71	0.00365		
395182.16	3872292.16	0.00355		
395159.15	3872282.61	0.00346		
395136.14	3872273.06	0.00339		
395113.14	3872263.52	0.00333		
395090.13	3872253.97	0.00324		
395067.12	3872244.42	0.00316		
395044.11	3872234.87	0.00309		
395021.10	3872225.32	0.00302		
394998.09	3872215.77	0.00296		
394975.08	3872206.22	0.00288		

	394952.07	3872196.68	0.00281
394929.06	3872187.13	0.00275	
	394906.05	3872177.58	0.00269
394883.05	3872168.03	0.00265	
	394860.04	3872158.48	0.00260
394837.03	3872148.93	0.00256	
	394814.02	3872139.38	0.00253
394791.01	3872129.84	0.00251	
	394768.00	3872120.29	0.00250
394744.99	3872110.74	0.00249	
	394721.98	3872101.19	0.00248
394698.97	3872091.64	0.00248	
	394675.96	3872082.09	0.00248
394652.96	3872072.54	0.00249	
	394629.95	3872063.00	0.00250
394606.94	3872053.45	0.00250	
	394583.93	3872043.90	0.00251
394560.92	3872034.35	0.00252	
	394537.91	3872024.80	0.00253
394514.90	3872015.25	0.00255	
	394491.89	3872005.70	0.00256
394468.88	3871996.16	0.00257	
	394445.87	3871986.61	0.00258
394422.87	3871977.06	0.00256	
	394399.86	3871967.51	0.00257
394376.85	3871957.96	0.00257	
	394353.84	3871948.41	0.00256
394330.83	3871938.86	0.00256	
	394307.82	3871929.32	0.00253
394284.81	3871919.77	0.00249	
	394261.80	3871910.22	0.00247
394238.79	3871900.67	0.00243	
	394215.78	3871891.12	0.00239
394192.78	3871881.57	0.00234	
	394169.77	3871872.03	0.00229
394146.76	3871862.48	0.00225	
	394123.75	3871852.93	0.00219
394100.74	3871843.38	0.00213	
	394077.73	3871833.83	0.00209
394054.72	3871824.28	0.00204	
	394031.71	3871814.73	0.00198
394008.70	3871805.19	0.00195	
	393976.21	3871772.60	0.00188
393966.72	3871749.57	0.00186	
	393957.23	3871726.54	0.00184
393947.74	3871703.50	0.00182	
	393938.25	3871680.47	0.00180
393928.76	3871657.44	0.00179	

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 113

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
393919.27	3871634.40	0.00177		
393909.78	3871611.37	0.00175		
393900.29	3871588.34	0.00174		
393890.80	3871565.30	0.00173		
393881.31	3871542.27	0.00172		
393871.82	3871519.24	0.00172		
393862.33	3871496.20	0.00172		
393852.84	3871473.17	0.00172		
393843.35	3871450.14	0.00173		
393833.86	3871427.10	0.00175		
393824.37	3871404.07	0.00177		
393814.88	3871381.03	0.00179		
393805.39	3871358.00	0.00182		
393795.91	3871334.97	0.00184		
393786.42	3871311.93	0.00186		
393776.93	3871288.90	0.00188		
393767.44	3871265.87	0.00189		
393757.95	3871242.83	0.00190		
393748.46	3871219.80	0.00191		
393738.97	3871196.77	0.00191		
393729.48	3871173.73	0.00190		
393719.99	3871150.70	0.00188		
393710.50	3871127.67	0.00185		
393701.01	3871104.63	0.00185		
393691.52	3871081.60	0.00186		
393682.03	3871058.57	0.00186		
393672.54	3871035.53	0.00185		
393663.05	3871012.50	0.00184		
393653.56	3870989.47	0.00173		
393644.07	3870966.43	0.00173		
393634.58	3870943.40	0.00175		
393625.10	3870920.37	0.00188		

	393615.61	3870897.33	0.00191
393606.12	3870874.30	0.00196	
	393596.63	3870851.27	0.00202
393587.14	3870828.23	0.00209	
	393577.65	3870805.20	0.00216
393568.16	3870782.17	0.00224	
	393558.67	3870759.13	0.00228
393549.18	3870736.10	0.00224	
	393539.69	3870713.07	0.00214
393530.20	3870690.03	0.00207	
	393520.71	3870667.00	0.00202
393511.22	3870643.97	0.00199	
	393501.73	3870620.93	0.00200
393492.24	3870597.90	0.00201	
	393482.75	3870574.86	0.00202
393473.26	3870551.83	0.00201	
	393463.77	3870528.80	0.00198
393454.29	3870505.76	0.00196	
	393444.80	3870482.73	0.00195
393435.31	3870459.70	0.00196	
	393425.82	3870436.66	0.00197
393416.33	3870413.63	0.00199	
	393406.84	3870390.60	0.00202
393397.35	3870367.56	0.00205	
	393387.86	3870344.53	0.00208
393378.37	3870321.50	0.00212	
	393368.88	3870298.46	0.00216
393359.39	3870275.43	0.00219	
	393349.90	3870252.40	0.00221
393340.41	3870229.36	0.00223	
	393330.92	3870206.33	0.00221
393321.43	3870183.30	0.00224	
	393311.94	3870160.26	0.00219
393302.45	3870137.23	0.00220	
	393292.96	3870114.20	0.00225
393283.47	3870091.16	0.00233	
	393273.99	3870068.13	0.00238
393264.50	3870045.10	0.00255	
	393255.01	3870022.06	0.00268
393245.52	3869999.03	0.00276	
	393236.03	3869976.00	0.00284
395826.41	3872559.52	0.00361	
	395851.36	3872559.52	0.00354
395876.30	3872559.52	0.00351	
	395901.25	3872559.52	0.00354
395926.19	3872559.52	0.00362	
	395951.14	3872559.53	0.00372
395976.08	3872559.53	0.00383	

	396749.54	3869909.78	0.62769
396749.54	3869884.88	0.64565	
	396749.54	3869859.99	0.65942
396749.53	3869835.10	0.67040	
	396749.53	3869810.21	0.67913
396749.53	3869785.32	0.68627	
	396749.53	3869760.43	0.69208
396749.53	3869735.54	0.69275	
	396749.53	3869710.64	0.68867
396749.53	3869685.75	0.69157	
	396749.53	3869660.86	0.69412
396749.53	3869635.97	0.69541	
	396749.52	3869611.08	0.69555
396749.52	3869586.19	0.69214	
	396749.52	3869561.30	0.68445
396749.52	3869536.41	0.67941	
	396749.52	3869511.51	0.67653
396749.52	3869486.62	0.67302	
	396749.52	3869461.73	0.66868
396749.52	3869436.84	0.66357	
	396749.52	3869411.95	0.65670
396749.51	3869387.06	0.64423	
	396749.51	3869362.17	0.63323
396749.51	3869337.27	0.62308	
	396749.51	3869312.38	0.61205
396749.51	3869287.49	0.59918	
	396749.51	3869262.60	0.58422
396749.51	3869237.71	0.56648	
	396749.51	3869212.82	0.54566
396749.51	3869187.93	0.52062	
	396749.50	3869163.03	0.48996
396749.50	3869138.14	0.45139	
	396749.50	3869113.25	0.40150
396749.50	3869088.36	0.33712	
	396749.50	3869063.47	0.26890
396767.22	3869977.24	0.46547	
	396774.54	3869934.67	0.49748
396774.54	3869909.77	0.51593	
	396774.54	3869884.88	0.52913
396774.54	3869859.99	0.53716	
	396774.53	3869835.10	0.54522
396774.53	3869810.21	0.55177	
	396774.53	3869785.32	0.55717
396774.53	3869760.43	0.56161	
	396774.53	3869735.54	0.56289
396774.53	3869710.64	0.56105	
	396774.53	3869685.75	0.56294
396774.53	3869660.86	0.56412	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 115

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
396774.52	3869611.08	0.56457		
396774.52	3869586.19	0.56158		
396774.52	3869561.30	0.55535		
396774.52	3869536.40	0.55316		
396774.52	3869511.51	0.55028		
396774.52	3869486.62	0.54670		
396774.52	3869461.73	0.54237		
396774.52	3869436.84	0.53621		
396774.52	3869411.95	0.52714		
396774.51	3869387.06	0.51748		
396774.51	3869362.16	0.50927		
396774.51	3869337.27	0.50001		
396774.51	3869312.38	0.48936		
396774.51	3869287.49	0.47698		
396774.51	3869262.60	0.46268		
396774.51	3869237.71	0.44611		
396774.51	3869212.82	0.42662		
396774.51	3869187.92	0.40196		
396774.50	3869163.03	0.37363		
396774.50	3869138.14	0.34109		
396774.50	3869113.25	0.30297		
396774.50	3869088.36	0.26114		
396792.22	3869977.24	0.40565		
396759.89	3870019.92	0.38547		
396799.54	3869934.67	0.42671		
396799.54	3869909.77	0.44101		
396799.54	3869884.88	0.45090		
396799.54	3869859.99	0.45696		
396799.53	3869835.10	0.46320		
396799.53	3869810.21	0.46831		
396799.53	3869785.32	0.47251		

	396799.53	3869760.43	0.47593
396799.53	3869735.53	0.47710	
	396799.53	3869710.64	0.47602
396799.53	3869685.75	0.47730	
	396799.53	3869660.86	0.47797
396799.53	3869635.97	0.47804	
	396799.52	3869611.08	0.47677
396799.52	3869586.19	0.47375	
	396799.52	3869561.29	0.46981
396799.52	3869536.40	0.46747	
	396799.52	3869511.51	0.46449
396799.52	3869486.62	0.45986	
	396799.52	3869461.73	0.45493
396799.52	3869436.84	0.44886	
	396799.52	3869411.95	0.44075
396799.51	3869387.05	0.43389	
	396799.51	3869362.16	0.42601
396799.51	3869337.27	0.41700	
	396799.51	3869312.38	0.40670
396799.51	3869287.49	0.39494	
	396799.51	3869262.60	0.38149
396799.51	3869237.71	0.36607	
	396799.51	3869212.81	0.34728
396799.51	3869187.92	0.32508	
	396799.50	3869163.03	0.30085
396799.50	3869138.14	0.27482	
	396799.50	3869113.25	0.24662
396799.50	3869088.36	0.21835	
	396799.50	3869063.47	0.19342
396817.22	3869977.23	0.35957	
	396802.57	3870012.59	0.34501
396777.57	3870037.59	0.33773	
	396824.54	3869934.66	0.37544
396824.54	3869909.77	0.38627	
	396824.54	3869884.88	0.39352
396824.54	3869859.99	0.39983	
	396824.53	3869835.10	0.40477
396824.53	3869810.21	0.40874	
	396824.53	3869785.32	0.41197
396824.53	3869760.42	0.41425	
	396824.53	3869735.53	0.41494
396824.53	3869710.64	0.41436	
	396824.53	3869685.75	0.41516
396824.53	3869660.86	0.41543	
	396824.53	3869635.97	0.41475
396824.52	3869611.08	0.41226	
	396824.52	3869586.18	0.40933
396824.52	3869561.29	0.40736	

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 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 116

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396824.52	3869536.40	0.40482		
396824.52	3869511.51	0.40121		
396824.52	3869486.62	0.39548		
396824.52	3869461.73	0.39000		
396824.52	3869436.84	0.38487		
396824.52	3869411.94	0.37898		
396824.51	3869387.05	0.37227		
396824.51	3869362.16	0.36464		
396824.51	3869337.27	0.35599		
396824.51	3869312.38	0.34621		
396824.51	3869287.49	0.33516		
396824.51	3869262.60	0.32263		
396824.51	3869237.71	0.30813		
396824.51	3869212.81	0.29039		
396824.51	3869187.92	0.27227		
396824.50	3869163.03	0.25302		
396824.50	3869138.14	0.23234		
396824.50	3869113.25	0.21108		
396824.50	3869088.36	0.19061		
396865.75	3869980.77	0.29353		
396856.97	3870001.98	0.29144		
396848.18	3870023.20	0.28674		
396839.39	3870044.41	0.27849		
396809.39	3870074.41	0.27305		
396788.18	3870083.20	0.27521		
396766.96	3870091.99	0.27490		
396745.75	3870100.77	0.27213		
396874.54	3869959.55	0.29377		
396874.54	3869934.66	0.30299		
396874.54	3869909.77	0.31053		
396874.54	3869884.88	0.31649		
396874.54	3869859.99	0.32105		

	396874.53	3869835.10	0.32448
396874.53	3869810.20	0.32701	
	396874.53	3869785.31	0.32889
396874.53	3869760.42	0.32904	
	396874.53	3869735.53	0.32870
396874.53	3869710.64	0.32913	
	396874.53	3869685.75	0.32915
396874.53	3869660.86	0.32701	
	396874.53	3869635.97	0.32547
396874.52	3869611.07	0.32398	
	396874.52	3869586.18	0.32216
396874.52	3869561.29	0.31956	
	396874.52	3869536.40	0.31508
396874.52	3869511.51	0.31139	
	396874.52	3869486.62	0.30748
396874.52	3869461.73	0.30309	
	396874.52	3869436.83	0.29812
396874.52	3869411.94	0.29253	
	396874.51	3869387.05	0.28630
396874.51	3869362.16	0.27934	
	396874.51	3869337.27	0.27162
396874.51	3869312.38	0.26309	
	396874.51	3869287.49	0.25372
396874.51	3869262.59	0.24322	
	396874.51	3869237.70	0.23026
396874.51	3869212.81	0.21818	
	396874.51	3869187.92	0.20553
396874.50	3869163.03	0.19239	
	396874.50	3869138.14	0.17906
396874.50	3869113.25	0.16600	
	396874.50	3869088.35	0.15370
396874.50	3869063.46	0.14265	
	396916.17	3869979.76	0.24882
396899.43	3870020.16	0.24603	
	396882.70	3870060.57	0.23820
396845.76	3870109.35	0.22896	
	396805.35	3870126.09	0.23236
396764.94	3870142.82	0.22943	
	396924.54	3869934.66	0.25458
396924.54	3869909.77	0.25982	
	396924.54	3869884.88	0.26409
396924.54	3869859.99	0.26742	
	396924.53	3869835.09	0.26990
396924.53	3869810.20	0.27162	
	396924.53	3869785.31	0.27155
396924.53	3869760.42	0.27149	
	396924.53	3869735.53	0.27157
396924.53	3869710.64	0.27113	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***      18:08:39

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PAGE 117

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*** MODELOPTs:   RegDFault  CONC  ELEV  RURAL
                               *** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                               INCLUDING SOURCE(S):   AREA1
                                                                 *** DISCRETE CARTESIAN

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RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC	X-	
396924.53	3869685.75	0.26970		
396924.53	3869660.85	0.26794		
396924.53	3869635.96	0.26643		
396924.52	3869611.07	0.26475		
396924.52	3869586.18	0.26208		
396924.52	3869561.29	0.25833		
396924.52	3869536.40	0.25544		
396924.52	3869511.51	0.25214		
396924.52	3869486.61	0.24841		
396924.52	3869461.72	0.24423		
396924.52	3869436.83	0.23959		
396924.52	3869411.94	0.23448		
396924.51	3869387.05	0.22888		
396924.51	3869362.16	0.22276		
396924.51	3869337.27	0.21613		
396924.51	3869312.37	0.20897		
396924.51	3869287.48	0.20079		
396924.51	3869262.59	0.19134		
396924.51	3869237.70	0.18277		
396924.51	3869212.81	0.17384		
396924.51	3869187.92	0.16468		
396924.50	3869163.03	0.15545		
396924.50	3869138.14	0.14631		
396924.50	3869113.24	0.13748		
396924.50	3869088.35	0.12918		
396924.50	3869063.46	0.12112		
396924.50	3869038.57	0.11282		
396924.50	3869013.68	0.10452		
396924.50	3868988.79	0.09622		
396924.50	3868963.90	0.08792		
396924.50	3868939.01	0.07962		
396924.50	3868914.12	0.07132		
396924.50	3868889.23	0.06302		
396924.50	3868864.34	0.05472		
396924.50	3868839.45	0.04642		
396924.50	3868814.56	0.03812		
396924.50	3868789.67	0.02982		
396924.50	3868764.78	0.02152		
396924.50	3868739.89	0.01322		
396924.50	3868715.00	0.00492		
396924.50	3868690.11	0.00000		
396924.50	3868665.22	0.00000		
396924.50	3868640.33	0.00000		
396924.50	3868615.44	0.00000		
396924.50	3868590.55	0.00000		
396924.50	3868565.66	0.00000		
396924.50	3868540.77	0.00000		
396924.50	3868515.88	0.00000		
396924.50	3868490.99	0.00000		
396924.50	3868466.10	0.00000		
396924.50	3868441.21	0.00000		
396924.50	3868416.32	0.00000		
396924.50	3868391.43	0.00000		
396924.50	3868366.54	0.00000		
396924.50	3868341.65	0.00000		
396924.50	3868316.76	0.00000		
396924.50	3868291.87	0.00000		
396924.50	3868266.98	0.00000		
396924.50	3868242.09	0.00000		
396924.50	3868217.20	0.00000		
396924.50	3868192.31	0.00000		
396924.50	3868167.42	0.00000		
396924.50	3868142.53	0.00000		
396924.50	3868117.64	0.00000		
396924.50	3868092.75	0.00000		
396924.50	3868067.86	0.00000		
396924.50	3868042.97	0.00000		
396924.50	3868018.08	0.00000		
396924.50	3868092.14	0.20507		

	396910.47	3870114.24	0.19991
396879.22	3870145.49	0.19730	
	396857.12	3870154.64	0.19951
396835.02	3870163.80	0.20046	
	396812.92	3870172.95	0.20000
396790.82	3870182.10	0.19839	
	396768.73	3870191.25	0.19582
396746.63	3870200.41	0.19241	
	396974.54	3869959.55	0.21410
396974.54	3869934.66	0.21852	
	396974.54	3869909.77	0.22225
396974.54	3869884.87	0.22530	
	396974.54	3869859.98	0.22769
396974.53	3869835.09	0.22945	
	396974.53	3869810.20	0.22950
396974.53	3869785.31	0.22985	
	396974.53	3869760.42	0.22994
396974.53	3869735.53	0.22950	
	396974.53	3869710.63	0.22842
396974.53	3869685.74	0.22630	
	396974.53	3869660.85	0.22490
396974.53	3869635.96	0.22322	
	396974.52	3869611.07	0.22053
396974.52	3869586.18	0.21749	
	396974.52	3869561.29	0.21493
396974.52	3869536.40	0.21207	
	396974.52	3869511.50	0.20890
396974.52	3869486.61	0.20540	
	396974.52	3869461.72	0.20156
396974.52	3869436.83	0.19739	
	396974.52	3869411.94	0.19287
396974.51	3869387.05	0.18801	
	396974.51	3869362.16	0.18280
396974.51	3869337.26	0.17726	
	396974.51	3869312.37	0.17128
396974.51	3869287.48	0.16460	
	396974.51	3869262.59	0.15725
396974.51	3869237.70	0.15063	
	396974.51	3869212.81	0.14388
396974.51	3869187.92	0.13708	
	396974.50	3869163.02	0.13022
396974.50	3869138.13	0.12321	
	396974.50	3869113.24	0.11611
396974.50	3869088.35	0.11011	
	396974.50	3869063.46	0.10458
397049.00	3869980.97	0.17302	
	397040.12	3870002.40	0.17390
397031.25	3870023.83	0.17436	

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 118

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*** MODELOPTs:      RegDEFAULT  CONC  ELEV  RURAL

*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S):      AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL		IN
		**		
X-COORD (M)	Y-COORD (M)	CONC		X-

397022.37	3870045.26	0.17398		
397013.50	3870066.69	0.17304		
	397004.62	3870088.12	0.17159	
396995.74	3870109.55	0.16960		
	396986.87	3870130.98	0.16706	
396977.99	3870152.40	0.16402		
	396969.12	3870173.83	0.16051	
396938.81	3870204.14	0.15894		
	396917.38	3870213.01	0.16079	
396895.96	3870221.89	0.16180		
	396874.53	3870230.76	0.16207	
396853.10	3870239.64	0.16165		
	396831.67	3870248.52	0.16061	
396810.24	3870257.39	0.15903		
	396788.81	3870266.27	0.15694	
396767.38	3870275.14	0.15420		
	396745.95	3870284.02	0.15116	
397057.87	3869959.55	0.17187		
	397057.87	3869934.65	0.17445	
397057.87	3869909.76	0.17659		
	397057.87	3869884.87	0.17829	
397057.87	3869859.98	0.17959		
	397057.87	3869835.09	0.18048	
397057.87	3869810.20	0.18021		
	397057.87	3869785.31	0.18012	
397057.86	3869760.41	0.17934		
	397057.86	3869735.52	0.17814	
397057.86	3869710.63	0.17707		
	397057.86	3869685.74	0.17573	
397057.86	3869660.85	0.17325		
	397057.86	3869635.96	0.17115	
397057.86	3869611.07	0.16901		

	397057.86	3869586.17	0.16668
397057.86	3869561.28	0.16415	
	397057.85	3869536.39	0.16145
397057.85	3869511.50	0.15856	
	397057.85	3869486.61	0.15551
397057.85	3869461.72	0.15228	
	397057.85	3869436.83	0.14889
397057.85	3869411.93	0.14532	
	397057.85	3869387.04	0.14160
397057.85	3869362.15	0.13771	
	397057.85	3869337.26	0.13367
397057.84	3869312.37	0.12894	
	397057.84	3869287.48	0.12397
397057.84	3869262.59	0.11961	
	397057.84	3869237.69	0.11520
397057.84	3869212.80	0.11078	
	397057.84	3869187.91	0.10578
397057.84	3869163.02	0.10103	
	397057.84	3869138.13	0.09676
397057.84	3869113.24	0.09266	
	397057.83	3869088.35	0.08878
397057.83	3869063.46	0.08515	
	397131.82	3869982.21	0.14238
397122.43	3870004.87	0.14335	
	397113.04	3870027.54	0.14395
397103.66	3870050.20	0.14420	
	397094.27	3870072.87	0.14408
397084.88	3870095.53	0.14367	
	397075.49	3870118.20	0.14295
397066.11	3870140.86	0.14183	
	397056.72	3870163.53	0.14029
397047.33	3870186.19	0.13829	
	397037.94	3870208.86	0.13595
397028.56	3870231.52	0.13328	
	396996.50	3870263.58	0.13220
396973.84	3870272.96	0.13373	
	396951.17	3870282.35	0.13463
396928.51	3870291.74	0.13501	
	396905.84	3870301.13	0.13488
396883.18	3870310.51	0.13425	
	396860.51	3870319.90	0.13318
396837.85	3870329.29	0.13160	
	396815.18	3870338.68	0.12975
396792.52	3870348.06	0.12756	
	396769.85	3870357.45	0.12505
396747.19	3870366.84	0.12225	
	397141.21	3869959.54	0.14108
397141.21	3869934.65	0.14260	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 119

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
----	----	----	----	----
397141.20	3869909.76	0.14360		
397141.20	3869884.87	0.14429		
397141.20	3869859.98	0.14486		
397141.20	3869835.08	0.14502		
397141.20	3869810.19	0.14464		
397141.20	3869785.30	0.14419		
397141.20	3869760.41	0.14362		
397141.20	3869735.52	0.14266		
397141.20	3869710.63	0.14120		
397141.19	3869685.74	0.13973		
397141.19	3869660.84	0.13821		
397141.19	3869635.95	0.13649		
397141.19	3869611.06	0.13457		
397141.19	3869586.17	0.13247		
397141.19	3869561.28	0.13022		
397141.19	3869536.39	0.12783		
397141.19	3869511.50	0.12532		
397141.19	3869486.61	0.12270		
397141.18	3869461.71	0.11998		
397141.18	3869436.82	0.11718		
397141.18	3869411.93	0.11430		
397141.18	3869387.04	0.11135		
397141.18	3869362.15	0.10758		
397141.18	3869337.26	0.10432		
397141.18	3869312.37	0.10124		
397141.18	3869287.47	0.09815		
397141.18	3869262.58	0.09499		
397141.17	3869237.69	0.09137		
397141.17	3869212.80	0.08808		
397141.17	3869187.91	0.08499		
397141.17	3869163.02	0.08199		
397141.17	3869138.13	0.07905		

	397141.17	3869113.23	0.07621
397141.17	3869088.34	0.07350	
	397141.17	3869063.45	0.07095
397215.39	3869981.64	0.11889	
	397206.23	3870003.73	0.11993
397197.08	3870025.83	0.12074	
	397187.93	3870047.93	0.12134
397178.78	3870070.03	0.12172	
	397169.62	3870092.13	0.12188
397160.47	3870114.23	0.12182	
	397151.32	3870136.33	0.12153
397142.16	3870158.42	0.12101	
	397133.01	3870180.52	0.12024
397123.86	3870202.62	0.11921	
	397114.71	3870224.72	0.11797
397105.55	3870246.82	0.11661	
	397096.40	3870268.92	0.11489
397087.25	3870291.01	0.11295	
	397055.99	3870322.27	0.11239
397033.90	3870331.42	0.11351	
	397011.80	3870340.57	0.11433
396989.70	3870349.73	0.11481	
	396967.60	3870358.88	0.11495
396945.50	3870368.03	0.11469	
	396923.40	3870377.18	0.11406
396901.31	3870386.34	0.11319	
	396879.21	3870395.49	0.11205
396857.11	3870404.64	0.11067	
	396835.01	3870413.80	0.10906
396812.91	3870422.95	0.10723	
	396790.81	3870432.10	0.10518
396768.71	3870441.25	0.10292	
	396746.62	3870450.41	0.10049
397224.54	3869959.54	0.11724	
	397224.54	3869934.65	0.11811
397224.54	3869909.75	0.11868	
	397224.54	3869884.86	0.11898
397224.54	3869859.97	0.11908	
	397224.53	3869835.08	0.11909
397224.53	3869810.19	0.11877	
	397224.53	3869785.30	0.11838
397224.53	3869760.41	0.11775	
	397224.53	3869735.52	0.11691
397224.53	3869710.62	0.11599	
	397224.53	3869685.73	0.11489
397224.53	3869660.84	0.11360	
	397224.53	3869635.95	0.11203
397224.52	3869611.06	0.11035	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 120

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
---	---	---	---	---
397224.52	3869586.17	0.10854		
397224.52	3869561.28	0.10651		
397224.52	3869536.38	0.10451		
397224.52	3869511.49	0.10223		
397224.52	3869486.60	0.10000		
397224.52	3869461.71	0.09762		
397224.52	3869436.82	0.09517		
397224.52	3869411.93	0.09277		
397224.51	3869387.04	0.09018		
397224.51	3869362.14	0.08774		
397224.51	3869337.25	0.08519		
397224.51	3869312.36	0.08269		
397224.51	3869287.47	0.08031		
397224.51	3869262.58	0.07794		
397224.51	3869237.69	0.07541		
397224.51	3869212.80	0.07308		
397224.51	3869187.90	0.07080		
397224.50	3869163.01	0.06861		
397224.50	3869138.12	0.06650		
397224.50	3869113.23	0.06440		
397224.50	3869088.34	0.06239		
397224.50	3869063.45	0.06042		
397456.23	3870003.72	0.07507		
397447.08	3870025.82	0.07582		
397437.93	3870047.92	0.07651		
397428.78	3870070.02	0.07710		
397419.62	3870092.12	0.07767		
397410.47	3870114.22	0.07816		
397401.32	3870136.31	0.07857		
397392.16	3870158.41	0.07895		
397383.01	3870180.51	0.07924		

	397373.86	3870202.61	0.07946
397364.71	3870224.71	0.07963	
	397355.55	3870246.81	0.07970
397346.40	3870268.91	0.07968	
	397337.25	3870291.00	0.07958
397328.09	3870313.10	0.07936	
	397318.94	3870335.20	0.07906
397309.79	3870357.30	0.07865	
	397300.63	3870379.40	0.07813
397291.48	3870401.50	0.07750	
	397282.33	3870423.59	0.07679
397273.18	3870445.69	0.07598	
	397264.02	3870467.79	0.07509
397232.77	3870499.04	0.07497	
	397210.67	3870508.20	0.07569
397188.57	3870517.35	0.07629	
	397166.48	3870526.50	0.07674
397144.38	3870535.65	0.07705	
	397122.28	3870544.81	0.07713
397100.18	3870553.96	0.07709	
	397078.08	3870563.11	0.07688
397055.98	3870572.27	0.07651	
	397033.89	3870581.42	0.07599
397011.79	3870590.57	0.07534	
	396989.69	3870599.73	0.07457
396967.59	3870608.88	0.07371	
	396945.49	3870618.03	0.07276
396923.39	3870627.18	0.07172	
	396901.29	3870636.34	0.07056
396879.20	3870645.49	0.06921	
	396857.10	3870654.64	0.06791
396835.00	3870663.80	0.06653	
	396812.90	3870672.95	0.06506
396790.80	3870682.10	0.06347	
	396768.70	3870691.25	0.06177
396746.61	3870700.41	0.06000	
	397474.54	3869959.53	0.07336
397474.54	3869934.64	0.07349	
	397474.54	3869909.74	0.07350
397474.54	3869884.85	0.07342	
	397474.54	3869859.96	0.07325
397474.53	3869835.07	0.07293	
	397474.53	3869810.18	0.07259
397474.53	3869785.29	0.07212	
	397474.53	3869760.40	0.07157
397474.53	3869735.50	0.07098	
	397474.53	3869710.61	0.07037
397474.53	3869685.72	0.06971	

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 121

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
397474.53	3869660.83	0.06899		
397474.53	3869635.94	0.06819		
397474.52	3869611.05	0.06728		
397474.52	3869586.16	0.06628		
397474.52	3869561.26	0.06529		
397474.52	3869536.37	0.06424		
397474.52	3869511.48	0.06305		
397474.52	3869486.59	0.06187		
397474.52	3869461.70	0.06062		
397474.52	3869436.81	0.05931		
397474.52	3869411.92	0.05802		
397474.51	3869387.02	0.05662		
397474.51	3869362.13	0.05522		
397474.51	3869337.24	0.05384		
397474.51	3869312.35	0.05243		
397474.51	3869287.46	0.05100		
397474.51	3869262.57	0.04960		
397474.51	3869237.68	0.04813		
397474.51	3869212.78	0.04666		
397474.51	3869187.89	0.04527		
397474.50	3869163.00	0.04389		
397474.50	3869138.11	0.04249		
397474.50	3869113.22	0.04115		
397474.50	3869088.33	0.03996		
397474.50	3869063.44	0.03883		
397715.09	3869982.33	0.05081		
397705.64	3870005.14	0.05140		
397696.20	3870027.95	0.05192		
397686.75	3870050.76	0.05241		
397677.30	3870073.57	0.05289		
397667.85	3870096.38	0.05332		
397658.40	3870119.19	0.05373		

	397648.95	3870142.01	0.05413
397639.51	3870164.82	0.05449	
	397630.06	3870187.63	0.05481
397620.61	3870210.44	0.05512	
	397611.16	3870233.25	0.05541
397601.71	3870256.06	0.05567	
	397592.27	3870278.87	0.05590
397582.82	3870301.69	0.05611	
	397573.37	3870324.50	0.05628
397563.92	3870347.31	0.05643	
	397554.47	3870370.12	0.05653
397545.02	3870392.93	0.05659	
	397535.58	3870415.74	0.05661
397526.13	3870438.55	0.05657	
	397516.68	3870461.36	0.05649
397507.23	3870484.18	0.05634	
	397497.78	3870506.99	0.05615
397488.34	3870529.80	0.05591	
	397478.89	3870552.61	0.05562
397469.44	3870575.42	0.05528	
	397459.99	3870598.23	0.05490
397450.54	3870621.04	0.05447	
	397441.09	3870643.86	0.05399
397408.84	3870676.11	0.05411	
	397386.02	3870685.56	0.05468
397363.21	3870695.01	0.05517	
	397340.40	3870704.46	0.05558
397317.59	3870713.91	0.05590	
	397294.78	3870723.36	0.05613
397271.97	3870732.80	0.05626	
	397249.16	3870742.25	0.05627
397226.34	3870751.70	0.05619	
	397203.53	3870761.15	0.05596
397180.72	3870770.60	0.05567	
	397157.91	3870780.04	0.05529
397135.10	3870789.49	0.05482	
	397112.29	3870798.94	0.05428
397089.48	3870808.39	0.05366	
	397066.67	3870817.84	0.05299
397043.85	3870827.29	0.05227	
	397021.04	3870836.73	0.05150
396998.23	3870846.18	0.05062	
	396975.42	3870855.63	0.04974
396952.61	3870865.08	0.04885	
	396929.80	3870874.53	0.04792
396906.99	3870883.97	0.04695	
	396884.17	3870893.42	0.04592
396861.36	3870902.87	0.04484	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 122

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
---	---	---	---	---
	396838.55	3870912.32	0.04372	
396815.74	3870921.77	0.04256		
	396792.93	3870931.22	0.04136	
396770.12	3870940.66	0.04007		
	396747.31	3870950.11	0.03876	
397724.54	3869959.52	0.05019		
	397724.54	3869934.62	0.05016	
397724.54	3869909.73	0.05009		
	397724.54	3869884.84	0.04998	
397724.54	3869859.95	0.04980		
	397724.53	3869835.06	0.04956	
397724.53	3869810.17	0.04922		
	397724.53	3869785.28	0.04888	
397724.53	3869760.38	0.04852		
	397724.53	3869735.49	0.04814	
397724.53	3869710.60	0.04773		
	397724.53	3869685.71	0.04725	
397724.53	3869660.82	0.04682		
	397724.53	3869635.93	0.04637	
397724.52	3869611.04	0.04587		
	397724.52	3869586.14	0.04535	
397724.52	3869561.25	0.04483		
	397724.52	3869536.36	0.04423	
397724.52	3869511.47	0.04366		
	397724.52	3869486.58	0.04307	
397724.52	3869461.69	0.04240		
	397724.52	3869436.80	0.04169	
397724.52	3869411.90	0.04098		
	397724.51	3869387.01	0.04018	
397724.51	3869362.12	0.03942		
	397724.51	3869337.23	0.03858	
397724.51	3869312.34	0.03773		

	397724.51	3869287.45	0.03688
397724.51	3869262.56	0.03597	
	397724.51	3869237.67	0.03511
397724.51	3869212.77	0.03417	
	397724.51	3869187.88	0.03322
397724.50	3869162.99	0.03229	
	397724.50	3869138.10	0.03139
397724.50	3869113.21	0.03050	
	397724.50	3869088.32	0.02964
397724.50	3869063.43	0.02875	
	398115.22	3869982.00	0.03148
398105.90	3870004.50	0.03177	
	398096.58	3870027.00	0.03205
398087.26	3870049.50	0.03232	
	398077.94	3870072.00	0.03259
398068.62	3870094.50	0.03284	
	398059.30	3870117.00	0.03310
398049.99	3870139.50	0.03334	
	398040.67	3870162.00	0.03359
398031.35	3870184.50	0.03383	
	398022.03	3870207.00	0.03406
398012.71	3870229.50	0.03428	
	398003.39	3870252.00	0.03449
397994.07	3870274.50	0.03469	
	397984.75	3870297.00	0.03488
397975.43	3870319.50	0.03506	
	397966.11	3870342.00	0.03522
397956.79	3870364.50	0.03536	
	397947.47	3870387.00	0.03551
397938.15	3870409.50	0.03564	
	397928.83	3870432.00	0.03577
397919.51	3870454.50	0.03589	
	397910.20	3870477.00	0.03600
397900.88	3870499.50	0.03611	
	397891.56	3870522.00	0.03620
397882.24	3870544.50	0.03628	
	397872.92	3870567.00	0.03634
397863.60	3870589.51	0.03638	
	397854.28	3870612.01	0.03641
397844.96	3870634.51	0.03641	
	397835.64	3870657.01	0.03639
397826.32	3870679.51	0.03635	
	397817.00	3870702.01	0.03630
397807.68	3870724.51	0.03623	
	397798.36	3870747.01	0.03615
397789.04	3870769.51	0.03605	
	397779.72	3870792.01	0.03594
397770.41	3870814.51	0.03582	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 123

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-

397761.09	3870837.01	0.03569		
397751.77	3870859.51	0.03555		
397742.45	3870882.01	0.03541		
397733.13	3870904.51	0.03525		
397723.81	3870927.01	0.03509		
397691.99	3870958.83	0.03534		
397669.49	3870968.15	0.03576		
397646.99	3870977.47	0.03615		
397624.49	3870986.79	0.03652		
397601.99	3870996.11	0.03684		
397579.49	3871005.43	0.03714		
397556.99	3871014.74	0.03740		
397534.49	3871024.06	0.03761		
397511.99	3871033.38	0.03776		
397489.49	3871042.70	0.03786		
397466.99	3871052.02	0.03790		
397444.49	3871061.34	0.03790		
397421.99	3871070.66	0.03782		
397399.49	3871079.98	0.03770		
397376.99	3871089.30	0.03752		
397354.49	3871098.62	0.03727		
397331.98	3871107.94	0.03698		
397309.48	3871117.26	0.03663		
397286.98	3871126.58	0.03623		
397264.48	3871135.90	0.03581		
397241.98	3871145.22	0.03535		
397219.48	3871154.53	0.03486		
397196.98	3871163.85	0.03435		
397174.48	3871173.17	0.03382		
397151.98	3871182.49	0.03327		
397129.48	3871191.81	0.03271		
397106.98	3871201.13	0.03211		

	397084.48	3871210.45	0.03148
397061.98	3871219.77	0.03088	
	397039.48	3871229.09	0.03027
397016.98	3871238.41	0.02965	
	396994.48	3871247.73	0.02903
396971.98	3871257.05	0.02839	
	396949.48	3871266.37	0.02770
396926.98	3871275.69	0.02703	
	396904.48	3871285.01	0.02637
396881.98	3871294.32	0.02571	
	396859.48	3871303.64	0.02505
396836.98	3871312.96	0.02439	
	396814.48	3871322.28	0.02373
396791.98	3871331.60	0.02308	
	396769.48	3871340.92	0.02245
396746.98	3871350.24	0.02182	
	398124.54	3869959.50	0.03119
398124.54	3869934.61	0.03118	
	398124.54	3869909.71	0.03114
398124.54	3869884.82	0.03107	
	398124.54	3869859.93	0.03097
398124.53	3869835.04	0.03083	
	398124.53	3869810.15	0.03069
398124.53	3869785.26	0.03055	
	398124.53	3869760.37	0.03039
398124.53	3869735.48	0.03021	
	398124.53	3869710.58	0.03002
398124.53	3869685.69	0.02978	
	398124.53	3869660.80	0.02955
398124.53	3869635.91	0.02928	
	398124.52	3869611.02	0.02901
398124.52	3869586.13	0.02874	
	398124.52	3869561.24	0.02845
398124.52	3869536.34	0.02816	
	398124.52	3869511.45	0.02786
398124.52	3869486.56	0.02757	
	398124.52	3869461.67	0.02726
398124.52	3869436.78	0.02694	
	398124.52	3869411.89	0.02662
398124.51	3869387.00	0.02624	
	398124.51	3869362.10	0.02589
398124.51	3869337.21	0.02550	
	398124.51	3869312.32	0.02510
398124.51	3869287.43	0.02470	
	398124.51	3869262.54	0.02427
398124.51	3869237.65	0.02381	
	398124.51	3869212.76	0.02336
398124.51	3869187.86	0.02289	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 124

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*** MODELOPTs:    RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
398124.50	3869162.97	0.02240		
398124.50	3869138.08	0.02189		
398124.50	3869113.19	0.02135		
398124.50	3869088.30	0.02086		
398124.50	3869063.41	0.02039		
398515.13	3869982.21	0.02171		
398505.71	3870004.94	0.02183		
398496.30	3870027.67	0.02194		
398486.88	3870050.40	0.02206		
398477.47	3870073.13	0.02219		
398468.05	3870095.86	0.02231		
398458.64	3870118.59	0.02244		
398449.22	3870141.32	0.02258		
398439.81	3870164.05	0.02273		
398430.40	3870186.78	0.02288		
398420.98	3870209.51	0.02304		
398411.57	3870232.24	0.02320		
398402.15	3870254.97	0.02336		
398392.74	3870277.70	0.02353		
398383.32	3870300.43	0.02368		
398373.91	3870323.16	0.02384		
398364.49	3870345.89	0.02399		
398355.08	3870368.62	0.02413		
398345.67	3870391.35	0.02427		
398336.25	3870414.08	0.02440		
398326.84	3870436.81	0.02451		
398317.42	3870459.54	0.02463		
398308.01	3870482.27	0.02473		
398298.59	3870505.00	0.02483		
398289.18	3870527.73	0.02492		
398279.76	3870550.46	0.02501		
398270.35	3870573.19	0.02510		

	398260.94	3870595.92	0.02518
398251.52	3870618.65	0.02526	
	398242.11	3870641.38	0.02534
398232.69	3870664.11	0.02541	
	398223.28	3870686.84	0.02546
398213.86	3870709.57	0.02551	
	398204.45	3870732.30	0.02555
398195.04	3870755.02	0.02558	
	398185.62	3870777.75	0.02559
398176.21	3870800.48	0.02560	
	398166.79	3870823.21	0.02559
398157.38	3870845.94	0.02557	
	398147.96	3870868.67	0.02554
398138.55	3870891.40	0.02550	
	398129.13	3870914.13	0.02545
398119.72	3870936.86	0.02540	
	398110.31	3870959.59	0.02534
398100.89	3870982.32	0.02528	
	398091.48	3871005.05	0.02522
398082.06	3871027.78	0.02516	
	398072.65	3871050.51	0.02511
398063.23	3871073.24	0.02505	
	398053.82	3871095.97	0.02499
398044.40	3871118.70	0.02493	
	398034.99	3871141.43	0.02487
398025.58	3871164.16	0.02482	
	398016.16	3871186.89	0.02478
398006.75	3871209.62	0.02473	
	397974.60	3871241.77	0.02500
397951.87	3871251.18	0.02532	
	397929.14	3871260.60	0.02563
397906.41	3871270.01	0.02594	
	397883.68	3871279.42	0.02623
397860.95	3871288.84	0.02651	
	397838.22	3871298.25	0.02677
397815.49	3871307.67	0.02700	
	397792.76	3871317.08	0.02722
397770.03	3871326.50	0.02741	
	397747.30	3871335.91	0.02757
397724.57	3871345.33	0.02770	
	397701.84	3871354.74	0.02779
397679.11	3871364.15	0.02785	
	397656.38	3871373.57	0.02788
397633.65	3871382.98	0.02786	
	397610.92	3871392.40	0.02780
397588.19	3871401.81	0.02769	
	397565.46	3871411.23	0.02754
397542.73	3871420.64	0.02736	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 125

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
**

X-COORD (M)	Y-COORD (M)	CONC	X-
397520.01	3871430.06	0.02713	
397497.28	3871439.47	0.02688	
397474.55	3871448.88	0.02659	
397451.82	3871458.30	0.02628	
397429.09	3871467.71	0.02594	
397406.36	3871477.13	0.02557	
397383.63	3871486.54	0.02519	
397360.90	3871495.96	0.02478	
397338.17	3871505.37	0.02437	
397315.44	3871514.78	0.02395	
397292.71	3871524.20	0.02352	
397269.98	3871533.61	0.02309	
397247.25	3871543.03	0.02264	
397224.52	3871552.44	0.02222	
397201.79	3871561.86	0.02177	
397179.06	3871571.27	0.02132	
397156.33	3871580.69	0.02090	
397133.60	3871590.10	0.02048	
397110.87	3871599.51	0.02006	
397088.14	3871608.93	0.01965	
397065.41	3871618.34	0.01924	
397042.68	3871627.76	0.01884	
397019.95	3871637.17	0.01793	
396997.22	3871646.59	0.01748	
396974.49	3871656.00	0.01712	
396951.76	3871665.42	0.01678	
396929.03	3871674.83	0.01644	
396906.30	3871684.24	0.01611	
396883.57	3871693.66	0.01579	
396860.84	3871703.07	0.01548	
396838.11	3871712.49	0.01518	
396815.38	3871721.90	0.01487	

	396792.65	3871731.32	0.01449
396769.92	3871740.73	0.01420	
	396747.19	3871750.15	0.01394
398524.54	3869959.48	0.02159	
	398524.54	3869934.59	0.02161
398524.54	3869909.70	0.02162	
	398524.54	3869884.81	0.02161
398524.54	3869859.91	0.02159	
	398524.53	3869835.02	0.02153
398524.53	3869810.13	0.02147	
	398524.53	3869785.24	0.02139
398524.53	3869760.35	0.02128	
	398524.53	3869735.46	0.02117
398524.53	3869710.57	0.02103	
	398524.53	3869685.67	0.02087
398524.53	3869660.78	0.02071	
	398524.53	3869635.89	0.02055
398524.52	3869611.00	0.02038	
	398524.52	3869586.11	0.02020
398524.52	3869561.22	0.02002	
	398524.52	3869536.33	0.01985
398524.52	3869511.43	0.01966	
	398524.52	3869486.54	0.01946
398524.52	3869461.65	0.01928	
	398524.52	3869436.76	0.01910
398524.52	3869411.87	0.01890	
	398524.51	3869386.98	0.01871
398524.51	3869362.09	0.01849	
	398524.51	3869337.19	0.01828
398524.51	3869312.30	0.01805	
	398524.51	3869287.41	0.01781
398524.51	3869262.52	0.01756	
	398524.51	3869237.63	0.01728
398524.51	3869212.74	0.01701	
	398524.51	3869187.85	0.01673
398524.50	3869162.96	0.01643	
	398524.50	3869138.06	0.01612
398524.50	3869113.17	0.01582	
	398524.50	3869088.28	0.01550
398524.50	3869063.39	0.01521	
	398915.06	3869982.34	0.01627
398905.59	3870005.22	0.01630	
	398896.11	3870028.10	0.01633
398886.64	3870050.98	0.01635	
	398877.16	3870073.85	0.01638
398867.68	3870096.73	0.01641	
	398858.21	3870119.61	0.01644
398848.73	3870142.49	0.01647	

*** AERMOD - VERSION 16216r *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 ***
*** 18:08:39

PAGE 126

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
398839.26	3870165.37	0.01652		
398829.78	3870188.25	0.01658		
398820.30	3870211.12	0.01665		
398810.83	3870234.00	0.01672		
398801.35	3870256.88	0.01681		
398791.88	3870279.76	0.01690		
398782.40	3870302.64	0.01700		
398772.92	3870325.52	0.01711		
398763.45	3870348.40	0.01723		
398753.97	3870371.27	0.01734		
398744.50	3870394.15	0.01747		
398735.02	3870417.03	0.01758		
398725.54	3870439.91	0.01770		
398716.07	3870462.79	0.01781		
398706.59	3870485.67	0.01791		
398697.12	3870508.54	0.01802		
398687.64	3870531.42	0.01811		
398678.17	3870554.30	0.01820		
398668.69	3870577.18	0.01829		
398659.21	3870600.06	0.01838		
398649.74	3870622.94	0.01846		
398640.26	3870645.81	0.01854		
398630.79	3870668.69	0.01862		
398621.31	3870691.57	0.01869		
398611.83	3870714.45	0.01876		
398602.36	3870737.33	0.01883		
398592.88	3870760.21	0.01890		
398583.41	3870783.09	0.01896		
398573.93	3870805.96	0.01902		
398564.45	3870828.84	0.01908		
398554.98	3870851.72	0.01912		
398545.50	3870874.60	0.01915		

	398536.03	3870897.48	0.01918
398526.55	3870920.36	0.01919	
	398517.07	3870943.23	0.01920
398507.60	3870966.11	0.01919	
	398498.12	3870988.99	0.01918
398488.65	3871011.87	0.01915	
	398479.17	3871034.75	0.01912
398469.69	3871057.63	0.01908	
	398460.22	3871080.50	0.01903
398450.74	3871103.38	0.01898	
	398441.27	3871126.26	0.01893
398431.79	3871149.14	0.01888	
	398422.31	3871172.02	0.01883
398412.84	3871194.90	0.01878	
	398403.36	3871217.78	0.01873
398393.89	3871240.65	0.01869	
	398384.41	3871263.53	0.01865
398374.93	3871286.41	0.01861	
	398365.46	3871309.29	0.01858
398355.98	3871332.17	0.01855	
	398346.51	3871355.05	0.01853
398337.03	3871377.92	0.01852	
	398327.55	3871400.80	0.01851
398318.08	3871423.68	0.01850	
	398308.60	3871446.56	0.01850
398299.13	3871469.44	0.01850	
	398289.65	3871492.32	0.01850
398257.30	3871524.67	0.01874	
	398234.42	3871534.15	0.01898
398211.54	3871543.62	0.01922	
	398188.66	3871553.10	0.01946
398165.78	3871562.57	0.01969	
	398142.90	3871572.05	0.01992
398120.03	3871581.53	0.02015	
	398097.15	3871591.00	0.02037
398074.27	3871600.48	0.02058	
	398051.39	3871609.95	0.02077
398028.51	3871619.43	0.02095	
	398005.63	3871628.91	0.02112
397982.76	3871638.38	0.02127	
	397959.88	3871647.86	0.02140
397937.00	3871657.33	0.02151	
	397914.12	3871666.81	0.02159
397891.24	3871676.29	0.02165	
	397868.36	3871685.76	0.02169
397845.48	3871695.24	0.02170	
	397822.61	3871704.71	0.02168
397799.73	3871714.19	0.02162	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 127

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
----	----	----	----	----
397776.85	3871723.67	0.02154		
397753.97	3871733.14	0.02144		
397731.09	3871742.62	0.02130		
397708.21	3871752.09	0.02113		
397685.34	3871761.57	0.02094		
397662.46	3871771.05	0.02072		
397639.58	3871780.52	0.02047		
397616.70	3871790.00	0.02021		
397593.82	3871799.47	0.01992		
397570.94	3871808.95	0.01962		
397548.07	3871818.43	0.01931		
397525.19	3871827.90	0.01898		
397502.31	3871837.38	0.01864		
397479.43	3871846.85	0.01809		
397456.55	3871856.33	0.01770		
397433.67	3871865.81	0.01731		
397410.79	3871875.28	0.01692		
397387.92	3871884.76	0.01653		
397365.04	3871894.23	0.01616		
397342.16	3871903.71	0.01578		
397319.28	3871913.19	0.01542		
397296.40	3871922.66	0.01506		
397273.52	3871932.14	0.01471		
397250.65	3871941.61	0.01439		
397227.77	3871951.09	0.01413		
397204.89	3871960.56	0.01384		
397182.01	3871970.04	0.01357		
397159.13	3871979.52	0.01332		
397136.25	3871988.99	0.01308		
397113.38	3871998.47	0.01287		
397090.50	3872007.94	0.01267		
397067.62	3872017.42	0.01249		

	397044.74	3872026.90	0.01233
397021.86	3872036.37	0.01218	
	396998.98	3872045.85	0.01204
396976.10	3872055.32	0.01190	
	396953.23	3872064.80	0.01178
396930.35	3872074.28	0.01165	
	396907.47	3872083.75	0.01153
396884.59	3872093.23	0.01135	
	396861.71	3872102.70	0.01122
396838.83	3872112.18	0.01110	
	396815.96	3872121.66	0.01097
396793.08	3872131.13	0.01083	
	396770.20	3872140.61	0.01065
396747.32	3872150.08	0.01047	
	398924.54	3869959.46	0.01623
398924.54	3869934.57	0.01626	
	398924.54	3869909.68	0.01629
398924.54	3869884.79	0.01630	
	398924.54	3869859.90	0.01629
398924.53	3869835.00	0.01626	
	398924.53	3869810.11	0.01621
398924.53	3869785.22	0.01613	
	398924.53	3869760.33	0.01605
398924.53	3869735.44	0.01594	
	398924.53	3869710.55	0.01583
398924.53	3869685.66	0.01571	
	398924.53	3869660.77	0.01559
398924.53	3869635.87	0.01547	
	398924.52	3869610.98	0.01533
398924.52	3869586.09	0.01520	
	398924.52	3869561.20	0.01507
398924.52	3869536.31	0.01493	
	398924.52	3869511.42	0.01481
398924.52	3869486.53	0.01468	
	398924.52	3869461.63	0.01455
398924.52	3869436.74	0.01442	
	398924.52	3869411.85	0.01429
398924.51	3869386.96	0.01416	
	398924.51	3869362.07	0.01402
398924.51	3869337.18	0.01387	
	398924.51	3869312.29	0.01371
398924.51	3869287.39	0.01355	
	398924.51	3869262.50	0.01339
398924.51	3869237.61	0.01321	
	398924.51	3869212.72	0.01303
398924.51	3869187.83	0.01283	
	398924.50	3869162.94	0.01263
398924.50	3869138.05	0.01244	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 128

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL   ***
                INCLUDING SOURCE(S):   AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
---	---	---	---	---
398924.50	3869113.15	0.01224		
398924.50	3869088.26	0.01205		
398924.50	3869063.37	0.01186		
399315.02	3869982.43	0.01284		
399305.50	3870005.41	0.01286		
399295.98	3870028.39	0.01288		
399286.46	3870051.37	0.01289		
399276.94	3870074.36	0.01289		
399267.43	3870097.34	0.01289		
399257.91	3870120.32	0.01288		
399248.39	3870143.30	0.01288		
399238.87	3870166.29	0.01287		
399229.35	3870189.27	0.01287		
399219.83	3870212.25	0.01288		
399210.31	3870235.23	0.01288		
399200.79	3870258.22	0.01290		
399191.27	3870281.20	0.01293		
399181.75	3870304.18	0.01296		
399172.24	3870327.16	0.01300		
399162.72	3870350.15	0.01305		
399153.20	3870373.13	0.01311		
399143.68	3870396.11	0.01317		
399134.16	3870419.09	0.01324		
399124.64	3870442.07	0.01332		
399115.12	3870465.06	0.01339		
399105.60	3870488.04	0.01347		
399096.08	3870511.02	0.01355		
399086.56	3870534.00	0.01363		
399077.05	3870556.99	0.01371		
399067.53	3870579.97	0.01378		
399058.01	3870602.95	0.01386		
399048.49	3870625.93	0.01394		

	399038.97	3870648.92	0.01402
399029.45	3870671.90	0.01409	
	399019.93	3870694.88	0.01417
399010.41	3870717.86	0.01424	
	399000.89	3870740.85	0.01432
398991.37	3870763.83	0.01439	
	398981.85	3870786.81	0.01446
398972.34	3870809.79	0.01453	
	398962.82	3870832.78	0.01461
398953.30	3870855.76	0.01467	
	398943.78	3870878.74	0.01474
398934.26	3870901.72	0.01480	
	398924.74	3870924.71	0.01486
398915.22	3870947.69	0.01491	
	398905.70	3870970.67	0.01496
398896.18	3870993.65	0.01500	
	398886.66	3871016.64	0.01504
398877.15	3871039.62	0.01507	
	398867.63	3871062.60	0.01508
398858.11	3871085.58	0.01509	
	398848.59	3871108.56	0.01510
398839.07	3871131.55	0.01509	
	398829.55	3871154.53	0.01507
398820.03	3871177.51	0.01504	
	398810.51	3871200.49	0.01501
398800.99	3871223.48	0.01497	
	398791.47	3871246.46	0.01492
398781.96	3871269.44	0.01488	
	398772.44	3871292.42	0.01483
398762.92	3871315.41	0.01477	
	398753.40	3871338.39	0.01472
398743.88	3871361.37	0.01467	
	398734.36	3871384.35	0.01462
398724.84	3871407.34	0.01458	
	398715.32	3871430.32	0.01453
398705.80	3871453.30	0.01449	
	398696.28	3871476.28	0.01446
398686.77	3871499.27	0.01443	
	398677.25	3871522.25	0.01440
398667.73	3871545.23	0.01438	
	398658.21	3871568.21	0.01437
398648.69	3871591.20	0.01435	
	398639.17	3871614.18	0.01435
398629.65	3871637.16	0.01435	
	398620.13	3871660.14	0.01435
398610.61	3871683.13	0.01436	
	398601.09	3871706.11	0.01438
398591.57	3871729.09	0.01440	

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 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 129
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

 *** DISCRETE CARTESIAN
 RECEPTOR POINTS ***

MICROGRAMS/M**3				** CONC OF ALL	IN
				**	
X-COORD (M)	Y-COORD (M)	CONC	X-		
---	---	---	---		
	398582.06	3871752.07	0.01442		
398572.54	3871775.06	0.01444			
	398540.04	3871807.56	0.01465		
398517.05	3871817.08	0.01484			
	398494.07	3871826.59	0.01502		
398471.09	3871836.11	0.01521			
	398448.11	3871845.63	0.01540		
398425.12	3871855.15	0.01558			
	398402.14	3871864.67	0.01577		
398379.16	3871874.19	0.01595			
	398356.18	3871883.71	0.01612		
398333.19	3871893.23	0.01630			
	398310.21	3871902.75	0.01646		
398287.23	3871912.27	0.01662			
	398264.25	3871921.78	0.01677		
398241.26	3871931.30	0.01690			
	398218.28	3871940.82	0.01703		
398195.30	3871950.34	0.01715			
	398172.32	3871959.86	0.01726		
398149.33	3871969.38	0.01735			
	398126.35	3871978.90	0.01743		
398103.37	3871988.42	0.01749			
	398080.39	3871997.94	0.01753		
398057.40	3872007.46	0.01755			
	398034.42	3872016.98	0.01754		
398011.44	3872026.49	0.01752			
	397988.46	3872036.01	0.01758		
397965.47	3872045.53	0.01751			
	397942.49	3872055.05	0.01731		
397919.51	3872064.57	0.01721			
	397896.53	3872074.09	0.01708		
397873.55	3872083.61	0.01693			

	397850.56	3872093.13	0.01681
397827.58	3872102.65	0.01659	
	397804.60	3872112.17	0.01636
397781.62	3872121.68	0.01611	
	397758.63	3872131.20	0.01583
397735.65	3872140.72	0.01556	
	397712.67	3872150.24	0.01528
397689.69	3872159.76	0.01498	
	397666.70	3872169.28	0.01468
397643.72	3872178.80	0.01437	
	397620.74	3872188.32	0.01406
397597.76	3872197.84	0.01374	
	397574.77	3872207.36	0.01341
397551.79	3872216.87	0.01310	
	397528.81	3872226.39	0.01278
397505.83	3872235.91	0.01248	
	397482.84	3872245.43	0.01218
397459.86	3872254.95	0.01190	
	397436.88	3872264.47	0.01162
397413.90	3872273.99	0.01136	
	397390.91	3872283.51	0.01109
397367.93	3872293.03	0.01086	
	397344.95	3872302.55	0.01064
397321.97	3872312.07	0.01043	
	397298.98	3872321.58	0.01023
397276.00	3872331.10	0.01008	
	397253.02	3872340.62	0.00993
397230.04	3872350.14	0.00985	
	397207.05	3872359.66	0.00973
397184.07	3872369.18	0.00961	
	397161.09	3872378.70	0.00951
397138.11	3872388.22	0.00943	
	397115.13	3872397.74	0.00936
397092.14	3872407.26	0.00929	
	397069.16	3872416.77	0.00924
397046.18	3872426.29	0.00922	
	397023.20	3872435.81	0.00919
397000.21	3872445.33	0.00916	
	396977.23	3872454.85	0.00910
396954.25	3872464.37	0.00906	
	396931.27	3872473.89	0.00903
396908.28	3872483.41	0.00894	
	396885.30	3872492.93	0.00889
396862.32	3872502.45	0.00883	
	396839.34	3872511.96	0.00871
396816.35	3872521.48	0.00858	
	396793.37	3872531.00	0.00848
396770.39	3872540.52	0.00831	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 130

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396747.41	3872550.04	0.00805		
399324.54	3869959.44	0.01281		
399324.54	3869934.55	0.01284		
399324.54	3869909.66	0.01285		
399324.54	3869884.77	0.01285		
399324.54	3869859.88	0.01284		
399324.53	3869834.99	0.01281		
399324.53	3869810.10	0.01277		
399324.53	3869785.20	0.01271		
399324.53	3869760.31	0.01266		
399324.53	3869735.42	0.01259		
399324.53	3869710.53	0.01251		
399324.53	3869685.64	0.01243		
399324.53	3869660.75	0.01233		
399324.53	3869635.86	0.01224		
399324.52	3869610.96	0.01214		
399324.52	3869586.07	0.01205		
399324.52	3869561.18	0.01195		
399324.52	3869536.29	0.01185		
399324.52	3869511.40	0.01176		
399324.52	3869486.51	0.01165		
399324.52	3869461.62	0.01155		
399324.52	3869436.72	0.01145		
399324.52	3869411.83	0.01135		
399324.51	3869386.94	0.01124		
399324.51	3869362.05	0.01112		
399324.51	3869337.16	0.01101		
399324.51	3869312.27	0.01089		
399324.51	3869287.38	0.01077		
399324.51	3869262.49	0.01064		
399324.51	3869237.59	0.01050		
399324.51	3869212.70	0.01036		

	399324.51	3869187.81	0.01022
399324.50	3869162.92	0.01008	
	399324.50	3869138.03	0.00993
399324.50	3869113.14	0.00978	
	399324.50	3869088.25	0.00963
399324.50	3869063.35	0.00949	
	395826.53	3869959.52	0.18177
395828.79	3869063.47	0.44217	
	396724.50	3869063.47	0.33582
396724.54	3869959.56	0.65468	
	395826.59	3869934.63	0.26925
395826.66	3869909.74	0.32799	
	395826.72	3869884.85	0.36309
395826.78	3869859.96	0.38646	
	395826.84	3869835.07	0.40816
395826.91	3869810.18	0.42611	
	395826.97	3869785.29	0.44117
395827.03	3869760.40	0.45413	
	395827.10	3869735.51	0.46562
395827.16	3869710.62	0.47582	
	395827.22	3869685.73	0.48499
395827.28	3869660.84	0.49355	
	395827.35	3869635.95	0.50204
395827.41	3869611.06	0.50898	
	395827.47	3869586.17	0.51521
395827.53	3869561.28	0.52082	
	395827.60	3869536.39	0.52568
395827.66	3869511.50	0.53051	
	395827.72	3869486.60	0.53473
395827.79	3869461.71	0.53816	
	395827.85	3869436.82	0.54042
395827.91	3869411.93	0.54231	
	395827.97	3869387.04	0.54415
395828.04	3869362.15	0.54618	
	395828.10	3869337.26	0.54750
395828.16	3869312.37	0.54810	
	395828.22	3869287.48	0.54822
395828.29	3869262.59	0.54753	
	395828.35	3869237.70	0.54574
395828.41	3869212.81	0.54321	
	395828.48	3869187.92	0.53937
395828.54	3869163.03	0.53349	
	395828.60	3869138.14	0.52606
395828.66	3869113.25	0.50951	
	395828.73	3869088.36	0.48301
395853.67	3869063.47	0.51417	
	395878.55	3869063.47	0.56232
395903.43	3869063.47	0.59345	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 131

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*** MODELOPTs:    RegDEFAULT    CONC    ELEV    RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION    VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3				** CONC OF ALL	IN
				**	
X-COORD (M)	Y-COORD (M)	CONC	X-		
X-COORD (M)	Y-COORD (M)	CONC			
395928.31	3869063.47	0.60851			
395953.19	3869063.47	0.61074			
395978.07	3869063.47	0.62453			
396002.96	3869063.47	0.63599			
396027.84	3869063.47	0.64554			
396052.72	3869063.47	0.64572			
396077.60	3869063.47	0.64369			
396102.48	3869063.47	0.64953			
396127.36	3869063.47	0.65491			
396152.24	3869063.47	0.65927			
396177.12	3869063.47	0.66232			
396202.00	3869063.47	0.65813			
396226.88	3869063.47	0.65183			
396251.76	3869063.47	0.65318			
396276.64	3869063.47	0.65367			
396301.53	3869063.47	0.65369			
396326.41	3869063.47	0.64769			
396351.29	3869063.47	0.64121			
396376.17	3869063.47	0.63756			
396401.05	3869063.47	0.63517			
396425.93	3869063.47	0.63173			
396450.81	3869063.47	0.62148			
396475.69	3869063.47	0.61246			
396500.57	3869063.47	0.60457			
396525.45	3869063.47	0.59630			
396550.33	3869063.47	0.58628			
396575.21	3869063.47	0.57400			
396600.10	3869063.47	0.55865			
396624.98	3869063.47	0.53878			
396649.86	3869063.47	0.51255			
396674.74	3869063.47	0.47569			
396699.62	3869063.47	0.41885			

	396724.50	3869088.36	0.44146
396724.50	3869113.25	0.52602	
	396724.50	3869138.14	0.58444
396724.50	3869163.04	0.62740	
	396724.51	3869187.93	0.66079
396724.51	3869212.82	0.68747	
	396724.51	3869237.71	0.70944
396724.51	3869262.60	0.72792	
	396724.51	3869287.49	0.74380
396724.51	3869312.38	0.75694	
	396724.51	3869337.28	0.76926
396724.51	3869362.17	0.78271	
	396724.51	3869387.06	0.79983
396724.52	3869411.95	0.80651	
	396724.52	3869436.84	0.81285
396724.52	3869461.73	0.81844	
	396724.52	3869486.62	0.82318
396724.52	3869511.52	0.82689	
	396724.52	3869536.41	0.82964
396724.52	3869561.30	0.84129	
	396724.52	3869586.19	0.84428
396724.52	3869611.08	0.84460	
	396724.53	3869635.97	0.84416
396724.53	3869660.86	0.84282	
	396724.53	3869685.75	0.84087
396724.53	3869710.65	0.83799	
	396724.53	3869735.54	0.84470
396724.53	3869760.43	0.84520	
	396724.53	3869785.32	0.83870
396724.53	3869810.21	0.83016	
	396724.53	3869835.10	0.81941
396724.54	3869859.99	0.80504	
	396724.54	3869884.89	0.78539
396724.54	3869909.78	0.75734	
	396724.54	3869934.67	0.71466
396699.60	3869959.56	0.69311	
	396674.65	3869959.56	0.71778
396649.71	3869959.56	0.73220	
	396624.76	3869959.56	0.74179
396599.82	3869959.55	0.75245	
	396574.87	3869959.55	0.76572
396549.93	3869959.55	0.76702	
	396524.98	3869959.55	0.76724
396500.04	3869959.55	0.76823	
	396475.09	3869959.55	0.77629
396450.15	3869959.55	0.78525	
	396425.20	3869959.55	0.78270
396400.26	3869959.55	0.77908	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***            10/09/17
*** AERMET - VERSION 14134 ***    ***
***                               18:08:39
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PAGE 132

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL    ***
INCLUDING SOURCE(S): AREA1 ,
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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

		** CONC OF ALL		IN
		**		
		MICROGRAMS/M**3		
X-COORD (M)	Y-COORD (M)	CONC	X-	
- - - - -				
- - - - -				
396375.31	3869959.54	0.77470		
396350.37	3869959.54	0.76988		
396325.42	3869959.54	0.76422		
396300.48	3869959.54	0.75789		
396275.54	3869959.54	0.75136		
396250.59	3869959.54	0.74683		
396225.65	3869959.54	0.73721		
396200.70	3869959.54	0.72587		
396175.76	3869959.54	0.71537		
396150.81	3869959.53	0.70406		
396125.87	3869959.53	0.69190		
396100.92	3869959.53	0.67709		
396075.98	3869959.53	0.65908		
396051.03	3869959.53	0.64243		
396026.09	3869959.53	0.62281		
396001.14	3869959.53	0.60029		
395976.20	3869959.53	0.57416		
395951.25	3869959.53	0.54295		
395926.31	3869959.52	0.50555		
395901.36	3869959.52	0.46340		
395876.42	3869959.52	0.40381		
395851.47	3869959.52	0.30881		

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 133

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

X-COORD (M)		Y-COORD (M)		CONC (YYMMDDHH)		X-
COORD (M)	Y-COORD (M)	CONC		(YYMMDDHH)		
396699.62	3869038.47	13.86951b	(13010324)			
396674.74	3869038.47	13.75062b	(13010324)			
396649.86	3869038.47	13.60628b	(13010324)			
396624.98	3869038.47	13.43476b	(13010324)			
396600.10	3869038.47	13.23322b	(13010324)			
396575.21	3869038.47	13.15154b	(12122824)			
396550.33	3869038.47	13.04844b	(12122824)			
396525.45	3869038.47	12.90063b	(12122824)			
396500.57	3869038.47	12.71615b	(12122824)			
396475.69	3869038.47	12.49537b	(12122824)			
396450.81	3869038.47	12.24030b	(12122824)			
396425.93	3869038.47	12.01306b	(12122824)			
396401.05	3869038.47	11.85886b	(12122824)			
396376.17	3869038.47	11.51348b	(12122824)			
396351.29	3869038.47	11.18521b	(13122724)			
396326.41	3869038.47	11.50725b	(13122724)			
396301.53	3869038.47	11.83161b	(13122724)			
396276.65	3869038.47	12.18220b	(13122724)			
396251.76	3869038.47	12.51774b	(13122724)			
396226.88	3869038.47	12.64699b	(13122724)			
396202.00	3869038.47	12.74295b	(13122724)			
396177.12	3869038.47	12.8418b	(13122724)			
396152.24	3869038.47	13.08418b	(13122724)			
396127.36	3869038.47	13.35891b	(13122724)			
396102.48	3869038.47	13.39935b	(13122724)			
396077.60	3869038.47	13.42900b	(13122724)			
396052.72	3869038.47	13.45203b	(13122724)			
396027.84	3869038.47	13.47039b	(13122724)			
396002.96	3869038.47	13.81247b	(13122724)			
395978.08	3869038.47	14.11774b	(13122724)			
395953.19	3869038.47	14.12750b	(13122724)			
		14.13618b	(13122724)			
		14.14370b	(13122724)			

395928.31	3869038.47	14.69207b	(13122724)
395903.43	3869038.47	14.93374b	(13122724)
395878.55	3869038.47	14.93783b	(13122724)
395853.67	3869038.47	14.93601b	(13122724)
395828.79	3869038.47	14.84860b	(13122724)
396742.18	3869020.79	14.00682b	(13010324)
396767.18	3869045.79	13.75586b	(13010324)
396699.62	3869013.47	13.92984b	(13010324)
396674.74	3869013.47	13.76223b	(13010324)
396649.86	3869013.47	13.56606b	(13010324)
396624.98	3869013.47	13.33906b	(13010324)
396600.10	3869013.47	13.08118b	(13010324)
396575.21	3869013.47	12.79163b	(13010324)
396550.33	3869013.47	12.47161b	(13010324)
396525.45	3869013.47	12.23606b	(12122824)
396500.57	3869013.47	11.99438b	(12122824)
396475.69	3869013.47	11.72291b	(12122824)
396450.81	3869013.47	11.45439b	(12122824)
396425.93	3869013.47	11.22312b	(12122824)
396401.05	3869013.47	10.94201b	(12122824)
396376.17	3869013.47	10.92566b	(13122724)
396351.29	3869013.47	11.26586b	(13122724)
396326.41	3869013.47	11.54781b	(13122724)
396301.53	3869013.47	11.82763b	(13122724)
396276.65	3869013.47	12.18238b	(13122724)
396251.76	3869013.47	12.45813b	(13122724)
396226.88	3869013.47	12.58042b	(13122724)
396202.00	3869013.47	12.92919b	(13122724)
396177.12	3869013.47	13.20879b	(13122724)
396152.24	3869013.47	13.25592b	(13122724)
396127.36	3869013.47	13.29078b	(13122724)
396102.48	3869013.47	13.31693b	(13122724)
396077.60	3869013.47	13.33688b	(13122724)
396052.72	3869013.47	13.66415b	(13122724)
396027.84	3869013.47	13.96409b	(13122724)
396002.96	3869013.47	13.97494b	(13122724)
395978.08	3869013.47	13.98309b	(13122724)
395953.19	3869013.47	13.99051b	(13122724)
395928.31	3869013.47	14.55800b	(13122724)
395903.43	3869013.47	14.77653b	(13122724)
395878.55	3869013.47	14.77541b	(13122724)
395853.67	3869013.47	14.77390b	(13122724)
395828.79	3869013.47	14.67913b	(13122724)
396742.18	3868995.79	14.15154b	(13010324)
396784.85	3869028.11	13.81959b	(13010324)
396699.62	3868988.47	14.00821b	(13010324)
396674.74	3868988.47	13.81705b	(13010324)
396649.86	3868988.47	13.59569b	(13010324)

	395828.79	3868988.47	14.52315b (13122724)
396742.18	3868970.79		14.09883b (13010324)
	396777.53	3868985.44	14.19924b (13010324)
396802.53	3869010.43		13.90651b (13010324)
	396817.18	3869045.79	13.32273b (13010324)
396699.62	3868963.47		13.96676b (13010324)
	396674.74	3868963.47	13.75173b (13010324)
396649.86	3868963.47		13.51897b (13010324)
	396624.98	3868963.47	13.24899b (13010324)
396600.10	3868963.47		12.94456b (13010324)
	396575.21	3868963.47	12.61181b (13010324)
396550.33	3868963.47		12.25268b (13010324)
	396525.45	3868963.47	11.86932b (13010324)
396500.57	3868963.47		11.46418b (13010324)
	396475.69	3868963.47	11.04014b (13010324)
396450.81	3868963.47		10.60000b (13010324)
	396425.93	3868963.47	10.36249c (13020424)
396401.05	3868963.47		10.35299c (13020424)
	396376.17	3868963.47	10.47358c (13020424)
396351.29	3868963.47		10.73720b (13122724)
	396326.41	3868963.47	11.03021b (13122724)
396301.53	3868963.47		11.30262b (13122724)
	396276.65	3868963.47	11.51414b (13122724)
396251.76	3868963.47		11.68257b (13122724)
	396226.88	3868963.47	12.06699b (13122724)
396202.00	3868963.47		12.26933b (13122724)
	396177.12	3868963.47	12.52806b (13122724)
396152.24	3868963.47		12.88457b (13122724)
	396127.36	3868963.47	12.92980b (13122724)
396102.48	3868963.47		12.96334b (13122724)
	396077.60	3868963.47	12.98841b (13122724)
396052.72	3868963.47		13.30818b (13122724)
	396027.84	3868963.47	13.60451b (13122724)
396002.96	3868963.47		13.70476b (13122724)
	395978.08	3868963.47	13.71446b (13122724)
395953.19	3868963.47		13.76077b (13122724)
	395928.31	3868963.47	14.20593b (13122724)
395903.43	3868963.47		14.39160b (13122724)
	395878.55	3868963.47	14.39404b (13122724)
395853.67	3868963.47		14.38458b (13122724)
	395828.79	3868963.47	14.29900b (13122724)
396745.71	3868922.26		13.92682b (13010324)
	396766.93	3868931.04	14.11774b (13010324)
396788.14	3868939.83		14.25559b (13010324)
	396809.35	3868948.62	14.29014b (13010324)
396839.35	3868978.61		13.88132b (13010324)
	396848.14	3868999.83	13.51371b (13010324)
396856.93	3869021.04		13.10629b (13010324)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 135

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
396865.71	3869042.25	12.67516b (13010324)	
396724.50	3868913.47	13.69460b (13010324)	
396699.62	3868913.47	13.46834b (13010324)	
396674.74	3868913.47	13.21431b (13010324)	
396649.86	3868913.47	12.96055b (13010324)	
396624.98	3868913.47	12.73151b (13010324)	
396600.10	3868913.47	12.47096b (13010324)	
396575.21	3868913.47	12.10358b (13010324)	
396550.33	3868913.47	11.71419b (13010324)	
396525.45	3868913.47	11.30560b (13010324)	
396500.57	3868913.47	10.88031b (13010324)	
396475.69	3868913.47	10.44051b (13010324)	
396450.81	3868913.47	10.27021c (13020424)	
396425.93	3868913.47	10.25884c (13020424)	
396401.05	3868913.47	10.23655c (13020424)	
396376.17	3868913.47	10.19880c (13020424)	
396351.29	3868913.47	10.14041c (13020424)	
396326.41	3868913.47	10.24093b (13122724)	
396301.53	3868913.47	10.57149b (13122724)	
396276.65	3868913.47	10.82995b (13122724)	
396251.76	3868913.47	11.18988b (13122724)	
396226.88	3868913.47	11.62509b (13122724)	
396202.00	3868913.47	11.85084b (13122724)	
396177.12	3868913.47	12.12729b (13122724)	
396152.24	3868913.47	12.48840b (13122724)	
396127.36	3868913.47	12.54644b (13122724)	
396102.48	3868913.47	12.59010b (13122724)	
396077.60	3868913.47	12.62284b (13122724)	
396052.72	3868913.47	12.64715b (13122724)	
396027.84	3868913.47	12.87219b (13122724)	
396002.96	3868913.47	13.32372b (13122724)	
395978.08	3868913.47	13.68188b (13122724)	

	395953.19	3868913.47	13.82814b (13122724)
395928.31	3868913.47		13.85149b (13122724)
	395903.43	3868913.47	13.85810b (13122724)
395878.55	3868913.47		13.86065b (13122724)
	395853.67	3868913.47	13.85209b (13122724)
395828.79	3868913.47		13.79076b (13122724)
	396744.70	3868871.84	13.47872b (13010324)
396785.11	3868888.57		13.95659b (13010324)
	396825.51	3868905.31	14.23872b (13010324)
396874.29	3868942.25		13.78615b (13010324)
	396891.02	3868982.65	13.04095b (13010324)
396907.76	3869023.06		12.21724b (12120724)
	396699.62	3868863.47	12.92083b (13010324)
396674.74	3868863.47		12.62702b (13010324)
	396649.86	3868863.47	12.30821b (13010324)
396624.98	3868863.47		11.96654b (13010324)
	396600.10	3868863.47	11.65084b (13010324)
396575.21	3868863.47		11.39235b (13010324)
	396550.33	3868863.47	10.98157b (13010324)
396525.45	3868863.47		10.55564b (13010324)
	396500.57	3868863.47	10.15426c (13020424)
396475.69	3868863.47		10.14781c (13020424)
	396450.81	3868863.47	10.13405c (13020424)
396425.93	3868863.47		10.10986c (13020424)
	396401.05	3868863.47	10.07156c (13020424)
396376.17	3868863.47		10.01398c (13020424)
	396351.29	3868863.47	9.93122c (13020424)
396326.41	3868863.47		9.81654c (13020424)
	396301.53	3868863.47	9.98820b (13122724)
396276.65	3868863.47		10.47625b (13122724)
	396251.76	3868863.47	10.81261b (13122724)
396226.88	3868863.47		11.41413b (13122724)
	396202.00	3868863.47	11.99128b (13122724)
396177.12	3868863.47		12.51974b (13122724)
	396152.24	3868863.47	12.90318b (13122724)
396127.36	3868863.47		12.99815b (13122724)
	396102.48	3868863.47	13.18459b (13122724)
396077.60	3868863.47		13.22745b (13122724)
	396052.72	3868863.47	13.26005b (13122724)
396027.84	3868863.47		13.28427b (13122724)
	396002.96	3868863.47	13.30262b (13122724)
395978.08	3868863.47		13.31689b (13122724)
	395953.19	3868863.47	13.29740b (13122724)
395928.31	3868863.47		13.28301b (13122724)
	395903.43	3868863.47	13.29541b (13122724)
395878.55	3868863.47		13.29893b (13122724)
	395853.67	3868863.47	13.29266b (13122724)
395828.79	3868863.47		13.24948b (13122724)

	396276.65	3868813.47	10.31041b (13122724)
396251.76	3868813.47	10.92510b (13122724)	
	396226.88	3868813.47	11.80063b (13122724)
396202.00	3868813.47	12.06464b (13122724)	
	396177.12	3868813.47	11.99037b (13122724)
396152.24	3868813.47	11.99142b (13122724)	
	396127.36	3868813.47	12.08490b (13122724)
396102.48	3868813.47	12.16942b (13122724)	
	396077.60	3868813.47	12.37010b (13122724)
396052.72	3868813.47	12.46888b (13122724)	
	396027.84	3868813.47	12.56230b (13122724)
396002.96	3868813.47	12.67285b (13122724)	
	395978.08	3868813.47	12.74196b (13122724)
395953.19	3868813.47	12.75799b (13122724)	
	395928.31	3868813.47	12.78694b (13122724)
395903.43	3868813.47	12.75065b (13122724)	
	395878.55	3868813.47	12.75916b (13122724)
395853.67	3868813.47	12.75507b (13122724)	
	395828.79	3868813.47	12.72537b (13122724)
396745.93	3868739.01	11.58175b (13010324)	
	396767.35	3868747.89	11.91291b (13010324)
396788.78	3868756.76	12.28088b (13010324)	
	396810.21	3868765.64	12.62004b (13010324)
396831.63	3868774.51	12.92673b (13010324)	
	396853.06	3868783.39	13.19699b (13010324)
396874.49	3868792.26	13.41684b (13010324)	
	396895.92	3868801.14	13.56172b (13010324)
396917.34	3868810.01	13.59565b (13010324)	
	396938.77	3868818.89	13.49183b (13010324)
396969.07	3868849.19	12.98080b (13010324)	
	396977.95	3868870.62	12.62631b (13010324)
396986.83	3868892.04	12.21624b (13010324)	
	396995.70	3868913.47	11.77482b (13010324)
397004.58	3868934.90	11.51790b (12120724)	
	397013.45	3868956.32	11.27076b (12120724)
397022.33	3868977.75	10.99272b (12120724)	
	397031.21	3868999.18	10.68789b (12120724)
397040.08	3869020.60	10.35948b (12120724)	
	397048.96	3869042.03	10.00799b (12120724)
396724.50	3868730.14	11.25313b (13010324)	
	396699.62	3868730.14	10.90194b (13010324)
396674.74	3868730.14	10.53374b (13010324)	
	396649.86	3868730.14	10.15048b (13010324)
396624.98	3868730.14	9.75359b (13010324)	
	396600.10	3868730.14	9.55642c (13020424)
396575.21	3868730.14	9.57123c (13020424)	
	396550.33	3868730.14	9.72443c (13020424)
396525.45	3868730.14	9.71407c (13020424)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 137

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL IN	
		**	
X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
396500.57	3868730.14	9.68902c (13020424)	
396475.69	3868730.14	9.74984c (13020424)	
396450.81	3868730.14	9.82231c (13020424)	
396425.93	3868730.14	9.78145c (13020424)	
396401.05	3868730.14	9.68349c (13020424)	
396376.17	3868730.14	10.03290c (13020424)	
396351.29	3868730.14	10.08006c (13020424)	
396326.41	3868730.14	10.36486c (13020424)	
396301.53	3868730.14	10.93307c (13020424)	
396276.65	3868730.14	10.47697c (13020424)	
396251.76	3868730.14	10.16912b (13122724)	
396226.88	3868730.14	6.39095b (13122724)	
396202.00	3868730.14	2.12124b (13121124)	
396177.12	3868730.14	1.45139b (09011224)	
396152.24	3868730.14	1.37916b (09011224)	
396127.36	3868730.14	1.45695m (13021824)	
396102.48	3868730.14	1.86089b (13121124)	
396077.60	3868730.14	4.64702b (13122724)	
396052.72	3868730.14	7.90234b (13122724)	
396027.84	3868730.14	9.48530b (13122724)	
396002.96	3868730.14	11.64668b (13122724)	
395978.08	3868730.14	11.84915b (13122724)	
395953.19	3868730.14	11.91762b (13122724)	
395928.31	3868730.14	11.95333b (13122724)	
395903.43	3868730.14	11.65193b (13122724)	
395878.55	3868730.14	11.47649b (13122724)	
395853.67	3868730.14	11.64926b (13122724)	
395828.79	3868730.14	11.63494b (13122724)	
396747.16	3868656.19	10.19300b (13010324)	
396769.83	3868665.58	10.65647b (13010324)	
396792.49	3868674.96	11.09737b (13010324)	
396815.15	3868684.35	11.51312b (13010324)	

	396837.82	3868693.74	11.89422b (13010324)
396860.48	3868703.13		12.25664b (13010324)
	396883.14	3868712.51	12.57673b (13010324)
396905.81	3868721.90		12.85267b (13010324)
	396928.47	3868731.29	13.06478b (13010324)
396951.13	3868740.67		13.18648b (13010324)
	396973.79	3868750.06	13.18212b (13010324)
396996.46	3868759.45		13.04909b (13010324)
	397028.51	3868791.50	12.49527b (13010324)
397037.90	3868814.16		12.12880b (13010324)
	397047.29	3868836.82	11.70425b (13010324)
397056.67	3868859.49		11.33641b (12120724)
	397066.06	3868882.15	11.14408b (12120724)
397075.45	3868904.81		10.89671b (12120724)
	397084.84	3868927.47	10.61166b (12120724)
397094.23	3868950.14		10.29634b (12120724)
	397103.61	3868972.80	9.95554b (12120724)
397113.00	3868995.46		9.59091b (12120724)
	397122.39	3869018.13	9.20520b (12120724)
397131.78	3869040.79		8.80121b (12120724)
	396724.50	3868646.80	9.71788b (13010324)
396699.62	3868646.80		9.38651b (13010324)
	396674.74	3868646.80	9.26521c (13020424)
396649.86	3868646.80		9.27529c (13020424)
	396624.98	3868646.80	9.26450c (13020424)
396600.10	3868646.80		9.30900c (13020424)
	396575.21	3868646.80	9.44497c (13020424)
396550.33	3868646.80		9.42033c (13020424)
	396525.45	3868646.80	9.38665c (13020424)
396500.57	3868646.80		9.51299c (13020424)
	396475.69	3868646.80	9.56638c (13020424)
396450.81	3868646.80		9.48147c (13020424)
	396425.93	3868646.80	9.38600c (13020424)
396401.05	3868646.80		9.53305c (13020424)
	396376.17	3868646.80	9.70212c (13020424)
396351.29	3868646.80		9.56797c (13020424)
	396326.41	3868646.80	9.70381c (13020424)
396301.53	3868646.80		9.96872c (13020424)
	396276.65	3868646.80	9.29361c (13020424)
396251.76	3868646.80		7.05115b (13122724)
	396226.88	3868646.80	4.56839b (13122724)
396202.00	3868646.80		4.74553b (13122724)
	396177.12	3868646.80	5.45899b (13122724)
396152.24	3868646.80		5.34585b (13122724)
	396127.36	3868646.80	5.32007b (13122724)
396102.48	3868646.80		6.62258b (13122724)
	396077.60	3868646.80	8.10454b (13122724)
396052.72	3868646.80		8.97374b (13122724)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 138

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
396027.84	3868646.80	10.78179b	(13122724)	
396002.96	3868646.80	10.98586b	(13122724)	
395978.08	3868646.80	11.13883b	(13122724)	
395953.19	3868646.80	11.07982b	(13122724)	
395928.31	3868646.80	10.85231b	(13122724)	
395903.43	3868646.80	10.73196b	(13122724)	
395878.55	3868646.80	10.69281b	(13122724)	
395853.67	3868646.80	10.72454b	(13122724)	
395828.79	3868646.80	10.72078b	(13122724)	
396746.60	3868572.62	8.88496c	(13020424)	
396768.69	3868581.77	9.22977b	(13010324)	
396790.79	3868590.93	9.61617b	(13010324)	
396812.89	3868600.08	10.05735b	(13010324)	
396834.98	3868609.23	10.47910b	(13010324)	
396857.08	3868618.38	10.87977b	(13010324)	
396879.18	3868627.54	11.25641b	(13010324)	
396901.27	3868636.69	11.60540b	(13010324)	
396923.37	3868645.84	11.92319b	(13010324)	
396945.47	3868654.99	12.20165b	(13010324)	
396967.56	3868664.15	12.42804b	(13010324)	
396989.66	3868673.30	12.58323b	(13010324)	
397011.76	3868682.45	12.64463b	(13010324)	
397033.85	3868691.60	12.59603b	(13010324)	
397055.95	3868700.76	12.42986b	(13010324)	
397087.20	3868732.00	11.89226b	(13010324)	
397096.35	3868754.10	11.55357b	(13010324)	
397105.51	3868776.20	11.25173b	(13010324)	
397114.66	3868798.29	11.00012b	(12120724)	
397123.81	3868820.39	10.83692b	(12120724)	
397132.97	3868842.49	10.64876b	(12120724)	
397142.12	3868864.58	10.40804b	(12120724)	
397151.27	3868886.68	10.11532b	(12120724)	

397160.43	3868908.77	9.76410b	(12120724)
397169.58	3868930.87	9.46826b	(12120724)
397178.73	3868952.97	9.13205b	(12120724)
397187.89	3868975.06	8.76122b	(12120724)
397197.04	3868997.16	8.37408b	(12120724)
397206.19	3869019.26	8.25322b	(13011424)
397215.35	3869041.35	8.21678b	(13011424)
396724.50	3868563.47	8.85461c	(13020424)
396699.62	3868563.47	8.84509c	(13020424)
396674.74	3868563.47	8.83327c	(13020424)
396649.86	3868563.47	8.87556c	(13020424)
396624.98	3868563.47	8.92410c	(13020424)
396600.10	3868563.47	8.93953c	(13020424)
396575.21	3868563.47	8.92610c	(13020424)
396550.33	3868563.47	8.98867c	(13020424)
396525.45	3868563.47	9.01519c	(13020424)
396500.57	3868563.47	8.96332c	(13020424)
396475.69	3868563.47	8.99291c	(13020424)
396450.81	3868563.47	9.03464c	(13020424)
396425.93	3868563.47	8.90248c	(13020424)
396401.05	3868563.47	8.84945c	(13020424)
396376.17	3868563.47	8.73010c	(13020424)
396351.29	3868563.47	8.60856c	(13020424)
396326.41	3868563.47	8.42656c	(13020424)
396301.53	3868563.47	8.18228c	(13020424)
396276.65	3868563.47	7.98134c	(13020424)
396251.76	3868563.47	8.30750b	(13122724)
396226.88	3868563.47	8.69044b	(13122724)
396202.00	3868563.47	9.01663b	(13122724)
396177.12	3868563.47	9.26515b	(13122724)
396152.24	3868563.47	9.53300b	(13122724)
396127.36	3868563.47	9.78476b	(13122724)
396102.48	3868563.47	9.80809b	(13122724)
396077.60	3868563.47	9.93440b	(13122724)
396052.72	3868563.47	10.05492b	(13122724)
396027.84	3868563.47	10.18370b	(13122724)
396002.96	3868563.47	10.26817b	(13122724)
395978.08	3868563.47	10.15138b	(13122724)
395953.19	3868563.47	10.08067b	(13122724)
395928.31	3868563.47	10.10094b	(13122724)
395903.43	3868563.47	10.14876b	(13122724)
395878.55	3868563.47	10.17000b	(13122724)
395853.67	3868563.47	10.18376b	(13122724)
395828.79	3868563.47	10.18877b	(13122724)
396746.60	3868322.62	7.90987c	(13020424)
396768.69	3868331.77	7.96701c	(13020424)
396790.79	3868340.93	8.01410c	(13020424)
396812.89	3868350.08	8.00477c	(13020424)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 139

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

 *** DISCRETE CARTESIAN

RECEPTOR POINTS ***

 ** CONC OF ALL IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396834.98	3868359.23	8.00253c	(13020424)	
396857.08	3868368.38	7.97035c	(13020424)	
396879.18	3868377.54	7.94384c	(13020424)	
396901.27	3868386.69	7.87498c	(13020424)	
396923.37	3868395.84	8.26674b	(13010324)	
396945.47	3868404.99	8.68318b	(13010324)	
396967.56	3868414.15	9.08400b	(13010324)	
396989.66	3868423.30	9.46760b	(13010324)	
397011.76	3868432.45	9.83180b	(13010324)	
397033.85	3868441.60	10.16598b	(13010324)	
397055.95	3868450.76	10.47221b	(13010324)	
397078.05	3868459.91	10.76638b	(13010324)	
397100.14	3868469.06	10.98336b	(13010324)	
397122.24	3868478.21	11.15535b	(13010324)	
397144.34	3868487.37	11.23147b	(13010324)	
397166.43	3868496.52	11.27138b	(13010324)	
397188.53	3868505.67	11.22087b	(13010324)	
397210.63	3868514.82	11.17975b	(13010324)	
397232.72	3868523.98	10.95935b	(13010324)	
397263.97	3868555.22	10.44804b	(13010324)	
397273.13	3868577.32	10.14372b	(13010324)	
397282.28	3868599.42	9.79723b	(13010324)	
397291.43	3868621.51	9.66215b	(12120724)	
397300.59	3868643.61	9.62584b	(12120724)	
397309.74	3868665.71	9.53602b	(12120724)	
397318.89	3868687.80	9.38275b	(12120724)	
397328.05	3868709.90	9.18567b	(12120724)	
397337.20	3868731.99	8.95255b	(12120724)	
397346.35	3868754.09	8.71079b	(12120724)	
397355.51	3868776.19	8.42193b	(12120724)	
397364.66	3868798.28	8.12226b	(12120724)	
397373.81	3868820.38	7.81936b	(12120724)	

397382.97	3868842.47	7.50245b	(12120724)
397392.12	3868864.57	7.14546b	(12120724)
397401.27	3868886.67	7.16787b	(13011424)
397410.43	3868908.76	7.19937b	(13011424)
397419.58	3868930.86	7.18695b	(13011424)
397428.73	3868952.96	7.16547b	(13011424)
397437.89	3868975.05	7.12677b	(13011424)
397447.04	3868997.15	7.07405b	(13011424)
397456.19	3869019.24	7.00858b	(13011424)
397465.35	3869041.34	6.93083b	(13011424)
396724.50	3868313.47	7.88943c	(13020424)
396699.62	3868313.47	7.86108c	(13020424)
396674.74	3868313.47	7.82502c	(13020424)
396649.86	3868313.47	7.77921c	(13020424)
396624.98	3868313.47	7.72124c	(13020424)
396600.10	3868313.47	7.64835c	(13020424)
396575.21	3868313.47	7.57374c	(13020424)
396550.33	3868313.47	7.57307c	(13020424)
396525.45	3868313.47	7.43779c	(13020424)
396500.57	3868313.47	7.29462c	(13020424)
396475.69	3868313.47	7.16182c	(13020424)
396450.81	3868313.47	6.99281c	(13020424)
396425.93	3868313.47	6.71709c	(13020424)
396401.05	3868313.47	6.40390c	(13020424)
396376.17	3868313.47	6.08597c	(13020424)
396351.29	3868313.47	5.77603c	(13020424)
396326.41	3868313.47	5.39280c	(13020424)
396301.53	3868313.47	4.92727c	(13020424)
396276.65	3868313.47	4.52026b	(13021424)
396251.76	3868313.47	4.83822b	(13122724)
396226.88	3868313.47	5.26241b	(13122724)
396202.00	3868313.47	5.66001b	(13122724)
396177.12	3868313.47	5.97044b	(13122724)
396152.24	3868313.47	6.21824b	(13122724)
396127.36	3868313.47	6.51598b	(13122724)
396102.48	3868313.47	6.78265b	(13122724)
396077.60	3868313.47	7.10316b	(13122724)
396052.72	3868313.47	7.36991b	(13122724)
396027.84	3868313.47	7.57254b	(13122724)
396002.96	3868313.47	7.76728b	(13122724)
395978.08	3868313.47	8.03692b	(13122724)
395953.19	3868313.47	8.15049b	(13122724)
395928.31	3868313.47	8.36862b	(13122724)
395903.43	3868313.47	8.49728b	(13122724)
395878.55	3868313.47	8.56146b	(13122724)
395853.67	3868313.47	8.61295b	(13122724)
395828.79	3868313.47	8.65269b	(13122724)
396747.31	3868072.92	7.04126c	(13020424)


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 140

*** MODELOPTs: RegDFault CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396770.12	3868082.37	7.05924c	(13020424)	
396792.93	3868091.81	7.09608c	(13020424)	
396815.74	3868101.26	7.14684c	(13020424)	
396838.55	3868110.71	7.18895c	(13020424)	
396861.36	3868120.16	7.22254c	(13020424)	
396884.17	3868129.60	7.24512c	(13020424)	
396906.98	3868139.05	7.25319c	(13020424)	
396929.78	3868148.50	7.24063c	(13020424)	
396952.59	3868157.95	7.19962c	(13020424)	
396975.40	3868167.39	7.12082c	(13020424)	
396998.21	3868176.84	6.99534c	(13020424)	
397021.02	3868186.29	6.81486c	(13020424)	
397043.83	3868195.74	6.89246b	(13010324)	
397066.64	3868205.18	7.30186b	(13010324)	
397089.45	3868214.63	7.70015b	(13010324)	
397112.26	3868224.08	8.08478b	(13010324)	
397135.07	3868233.53	8.45246b	(13010324)	
397157.88	3868242.98	8.80143b	(13010324)	
397180.69	3868252.42	9.12646b	(13010324)	
397203.50	3868261.87	9.40853b	(13010324)	
397226.31	3868271.32	9.66668b	(13010324)	
397249.12	3868280.77	9.88156b	(13010324)	
397271.93	3868290.21	10.05175b	(13010324)	
397294.73	3868299.66	10.16851b	(13010324)	
397317.54	3868309.11	10.22120b	(13010324)	
397340.35	3868318.56	10.20001b	(13010324)	
397363.16	3868328.00	10.10955b	(13010324)	
397385.97	3868337.45	9.94079b	(13010324)	
397408.78	3868346.90	9.71861b	(13010324)	
397441.04	3868379.16	9.17801b	(13010324)	
397450.49	3868401.97	8.88246b	(13010324)	
397459.94	3868424.77	8.55791b	(13010324)	

397469.39	3868447.58	8.59549b	(12120724)
397478.83	3868470.39	8.61583b	(12120724)
397488.28	3868493.20	8.57505b	(12120724)
397497.73	3868516.01	8.48212b	(12120724)
397507.18	3868538.82	8.34655b	(12120724)
397516.63	3868561.63	8.15656b	(12120724)
397526.08	3868584.44	7.92569b	(12120724)
397535.53	3868607.25	7.66830b	(12120724)
397544.98	3868630.06	7.40680b	(12120724)
397554.42	3868652.86	7.12261b	(12120724)
397563.87	3868675.67	6.82366b	(12120724)
397573.32	3868698.48	6.51237b	(12120724)
397582.77	3868721.29	6.19437b	(12120724)
397592.22	3868744.10	6.03574b	(13011424)
397601.67	3868766.91	6.16573b	(13011424)
397611.12	3868789.72	6.27609b	(13011424)
397620.56	3868812.53	6.33434b	(13011424)
397630.01	3868835.34	6.37129b	(13011424)
397639.46	3868858.14	6.38221b	(13011424)
397648.91	3868880.95	6.36496b	(13011424)
397658.36	3868903.76	6.35105b	(13011424)
397667.81	3868926.57	6.29160b	(13011424)
397677.26	3868949.38	6.23618b	(13011424)
397686.71	3868972.19	6.16669b	(13011424)
397696.15	3868995.00	6.06290b	(13011424)
397705.60	3869017.81	5.96697b	(13011424)
397715.05	3869040.62	5.84049b	(13011424)
396724.50	3868063.47	6.97202c	(13020424)
396699.62	3868063.47	6.89811c	(13020424)
396674.74	3868063.47	6.80775c	(13020424)
396649.86	3868063.47	6.76901c	(13020424)
396624.98	3868063.47	6.67834c	(13020424)
396600.10	3868063.47	6.52079c	(13020424)
396575.21	3868063.47	6.33633c	(13020424)
396550.33	3868063.47	6.12374c	(13020424)
396525.45	3868063.47	5.97771c	(13020424)
396500.57	3868063.47	5.72644c	(13020424)
396475.69	3868063.47	5.41817c	(13020424)
396450.81	3868063.47	5.08036c	(13020424)
396425.93	3868063.47	4.72825c	(13020424)
396401.05	3868063.47	4.42877c	(13020424)
396376.17	3868063.47	4.04239b	(13021424)
396351.29	3868063.47	4.04013b	(13021424)
396326.41	3868063.47	4.03629b	(13021424)
396301.53	3868063.47	4.02975b	(13021424)
396276.65	3868063.47	4.01902b	(13021424)
396251.76	3868063.47	4.00194b	(13021424)
396226.88	3868063.47	3.97538b	(13021424)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 141

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
 **

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
396202.00	3868063.47	3.93541b	(13021424)	
396177.12	3868063.47	3.89269b	(13122724)	
396152.24	3868063.47	4.25833b	(13122724)	
396127.36	3868063.47	4.60847b	(13122724)	
396102.48	3868063.47	4.94034b	(13122724)	
396077.60	3868063.47	5.32766b	(13122724)	
396052.72	3868063.47	5.64822b	(13122724)	
396027.84	3868063.47	5.91620b	(13122724)	
396002.96	3868063.47	6.18448b	(13122724)	
395978.08	3868063.47	6.49513b	(13122724)	
395953.19	3868063.47	6.69174b	(13122724)	
395928.31	3868063.47	6.86475b	(13122724)	
395903.43	3868063.47	7.01554b	(13122724)	
395878.55	3868063.47	7.19067b	(13122724)	
395853.67	3868063.47	7.38026b	(13122724)	
395828.79	3868063.47	7.47552b	(13122724)	
396747.00	3867672.79	5.74029c	(13020424)	
396769.50	3867682.11	5.91336c	(13020424)	
396792.00	3867691.43	6.06938c	(13020424)	
396814.49	3867700.75	6.20410c	(13020424)	
396836.99	3867710.06	6.31990c	(13020424)	
396859.49	3867719.38	6.41813c	(13020424)	
396881.99	3867728.70	6.50055c	(13020424)	
396904.49	3867738.02	6.55876c	(13020424)	
396926.99	3867747.34	6.52491c	(13020424)	
396949.48	3867756.66	6.53655c	(13020424)	
396971.98	3867765.98	6.55369c	(13020424)	
396994.48	3867775.30	6.48469c	(13020424)	
397016.98	3867784.61	6.47323c	(13020424)	
397039.48	3867793.93	6.45358c	(13020424)	
397061.98	3867803.25	6.41151c	(13020424)	
397084.47	3867812.57	6.34224c	(13020424)	

397106.97	3867821.89	6.24151c	(13020424)
397129.47	3867831.21	6.08953c	(13020424)
397151.97	3867840.53	5.89518c	(13020424)
397174.47	3867849.85	5.70817c	(13020424)
397196.97	3867859.17	5.40185c	(13020424)
397219.46	3867868.48	5.11870c	(13020424)
397241.96	3867877.80	5.20954b	(13010324)
397264.46	3867887.12	5.57928b	(13010324)
397286.96	3867896.44	5.94393b	(13010324)
397309.46	3867905.76	6.30075b	(13010324)
397331.96	3867915.08	6.64724b	(13010324)
397354.45	3867924.40	6.98161b	(13010324)
397376.95	3867933.72	7.30137b	(13010324)
397399.45	3867943.03	7.60314b	(13010324)
397421.95	3867952.35	7.88425b	(13010324)
397444.45	3867961.67	8.13977b	(13010324)
397466.95	3867970.99	8.36634b	(13010324)
397489.44	3867980.31	8.55936b	(13010324)
397511.94	3867989.63	8.71420b	(13010324)
397534.44	3867998.95	8.82623b	(13010324)
397556.94	3868008.27	8.89230b	(13010324)
397579.44	3868017.59	8.90943b	(13010324)
397601.94	3868026.90	8.87626b	(13010324)
397624.43	3868036.22	8.79291b	(13010324)
397646.93	3868045.54	8.64353b	(13010324)
397669.43	3868054.86	8.45398b	(13010324)
397691.93	3868064.18	8.23403b	(13010324)
397723.75	3868096.00	7.74513b	(13010324)
397733.07	3868118.49	7.48358b	(13010324)
397742.39	3868140.99	7.27428b	(12120724)
397751.71	3868163.49	7.38262b	(12120724)
397761.03	3868185.99	7.44368b	(12120724)
397770.35	3868208.49	7.46192b	(12120724)
397779.67	3868230.98	7.43930b	(12120724)
397788.99	3868253.48	7.38387b	(12120724)
397798.31	3868275.98	7.29008b	(12120724)
397807.63	3868298.48	7.16058b	(12120724)
397816.95	3868320.98	6.99907b	(12120724)
397826.27	3868343.47	6.80960b	(12120724)
397835.59	3868365.97	6.59594b	(12120724)
397844.91	3868388.47	6.36087b	(12120724)
397854.22	3868410.97	6.10850b	(12120724)
397863.54	3868433.47	5.84108b	(12120724)
397872.86	3868455.96	5.56147b	(12120724)
397882.18	3868478.46	5.27173b	(12120724)
397891.50	3868500.96	4.97339b	(12120724)
397900.82	3868523.46	4.67282b	(12120724)
397910.14	3868545.96	4.73583b	(13011424)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 142

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
**

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
397919.46	3868568.45	4.90929b	(13011424)	
397928.78	3868590.95	5.05611b	(13011424)	
397938.10	3868613.45	5.17320b	(13011424)	
397947.42	3868635.95	5.26496b	(13011424)	
397956.74	3868658.44	5.34986b	(13011424)	
397966.06	3868680.94	5.39504b	(13011424)	
397975.38	3868703.44	5.41727b	(13011424)	
397984.70	3868725.94	5.41599b	(13011424)	
397994.02	3868748.44	5.41494b	(13011424)	
398003.34	3868770.93	5.39641b	(13011424)	
398012.66	3868793.43	5.35587b	(13011424)	
398021.98	3868815.93	5.28368b	(13011424)	
398031.30	3868838.43	5.21681b	(13011424)	
398040.62	3868860.93	5.13487b	(13011424)	
398049.94	3868883.42	5.03731b	(13011424)	
398059.26	3868905.92	4.92428b	(13011424)	
398068.58	3868928.42	4.79553b	(13011424)	
398077.90	3868950.92	4.65039b	(13011424)	
398087.22	3868973.42	4.49588b	(13011424)	
398096.54	3868995.91	4.33569b	(13011424)	
398105.86	3869018.41	4.14451b	(13011424)	
398115.18	3869040.91	3.92879b	(13011424)	
396699.62	3867663.47	5.59494c	(13020424)	
396699.62	3867663.47	5.45582c	(13020424)	
396699.62	3867663.47	5.22782c	(13020424)	
396649.86	3867663.47	4.97686c	(13020424)	
396649.86	3867663.47	4.70378c	(13020424)	
396600.10	3867663.47	4.41035c	(13020424)	
396600.10	3867663.47	4.09889c	(13020424)	
396550.33	3867663.47	3.77272c	(13020424)	
396550.33	3867663.47	3.51450b	(13021424)	
396500.57	3867663.47	3.51546b	(13021424)	

	396475.69	3867663.47	3.52729b (13021424)
396450.81	3867663.47	3.55214b (13021424)	
	396425.93	3867663.47	3.57840b (13021424)
396401.05	3867663.47	3.57402b (13021424)	
	396376.17	3867663.47	3.56686b (13021424)
396351.29	3867663.47	3.55602b (13021424)	
	396326.41	3867663.47	3.53980b (13021424)
396301.53	3867663.47	3.53320b (13021424)	
	396276.65	3867663.47	3.54712b (13021424)
396251.76	3867663.47	3.49908b (13021424)	
	396226.88	3867663.47	3.43372b (13021424)
396202.00	3867663.47	3.34713b (13021424)	
	396177.12	3867663.47	3.23551b (13021424)
396152.24	3867663.47	3.15093b (13121124)	
	396127.36	3867663.47	3.14706b (13121124)
396102.48	3867663.47	3.14753b (13121124)	
	396077.60	3867663.47	3.14595b (13121124)
396052.72	3867663.47	3.12704b (13121124)	
	396027.84	3867663.47	3.42091b (13122724)
396002.96	3867663.47	3.71929b (13122724)	
	395978.08	3867663.47	4.02414b (13122724)
395953.19	3867663.47	4.32912b (13122724)	
	395928.31	3867663.47	4.59824b (13122724)
395903.43	3867663.47	4.84830b (13122724)	
	395878.55	3867663.47	5.08203b (13122724)
395853.67	3867663.47	5.29809b (13122724)	
	395828.79	3867663.47	5.49618b (13122724)
396747.23	3867272.88	4.03177c (13020424)	
	396769.96	3867282.30	4.31860c (13020424)
396792.68	3867291.71	4.55845c (13020424)	
	396815.41	3867301.13	4.73854c (13020424)
396838.14	3867310.54	4.96188c (13020424)	
	396860.87	3867319.95	5.17244c (13020424)
396883.60	3867329.37	5.36248c (13020424)	
	396906.32	3867338.78	5.53269c (13020424)
396929.05	3867348.20	5.68306c (13020424)	
	396951.78	3867357.61	5.79191c (13020424)
396974.51	3867367.02	5.82590c (13020424)	
	396997.24	3867376.44	5.89085c (13020424)
397019.96	3867385.85	5.96872c (13020424)	
	397042.69	3867395.26	6.03078c (13020424)
397065.42	3867404.68	6.07767c (13020424)	
	397088.15	3867414.09	6.10865c (13020424)
397110.87	3867423.51	6.12303c (13020424)	
	397133.60	3867432.92	6.00756c (13020424)
397156.33	3867442.33	5.86669c (13020424)	
	397179.06	3867451.75	5.82314c (13020424)
397201.79	3867461.16	5.67196c (13020424)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 143

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
397224.51	3867470.58	5.58097c	(13020424)	
397247.24	3867479.99	5.46266c	(13020424)	
397269.97	3867489.40	5.31582c	(13020424)	
397292.70	3867498.82	5.13965c	(13020424)	
397315.43	3867508.23	4.93504c	(13020424)	
397338.15	3867517.65	4.70335c	(13020424)	
397360.88	3867527.06	4.44731c	(13020424)	
397383.61	3867536.47	4.17159c	(13020424)	
397406.34	3867545.89	3.87904c	(13020424)	
397429.07	3867555.30	3.78136b	(13010324)	
397451.79	3867564.72	4.11500b	(13010324)	
397474.52	3867574.13	4.45005b	(13010324)	
397497.25	3867583.54	4.78421b	(13010324)	
397519.98	3867592.96	5.11570b	(13010324)	
397542.71	3867602.37	5.44140b	(13010324)	
397565.43	3867611.78	5.75936b	(13010324)	
397588.16	3867621.20	6.06765b	(13010324)	
397610.89	3867630.61	6.36280b	(13010324)	
397633.62	3867640.03	6.64256b	(13010324)	
397656.34	3867649.44	6.90386b	(13010324)	
397679.07	3867658.85	7.14351b	(13010324)	
397701.80	3867668.27	7.35868b	(13010324)	
397724.53	3867677.68	7.54556b	(13010324)	
397747.26	3867687.10	7.70064b	(13010324)	
397769.98	3867696.51	7.79924b	(13010324)	
397792.71	3867705.92	7.87247b	(13010324)	
397815.44	3867715.34	7.91555b	(13010324)	
397838.17	3867724.75	7.90298b	(13010324)	
397860.90	3867734.17	7.85611b	(13010324)	
397883.62	3867743.58	7.77966b	(13010324)	
397906.35	3867752.99	7.65810b	(13010324)	
397929.08	3867762.41	7.48449b	(13010324)	

397951.81	3867771.82	7.29359b	(13010324)
397974.54	3867781.24	7.06734b	(13010324)
398006.68	3867813.38	6.59082b	(13010324)
398016.09	3867836.10	6.34669b	(13010324)
398025.51	3867858.83	6.27240b	(12120724)
398034.92	3867881.56	6.39968b	(12120724)
398044.34	3867904.29	6.49540b	(12120724)
398053.75	3867927.01	6.55899b	(12120724)
398063.17	3867949.74	6.58894b	(12120724)
398072.58	3867972.47	6.58500b	(12120724)
398082.00	3867995.20	6.54761b	(12120724)
398091.41	3868017.92	6.47836b	(12120724)
398100.83	3868040.65	6.37835b	(12120724)
398110.24	3868063.38	6.25024b	(12120724)
398119.66	3868086.11	6.09560b	(12120724)
398129.07	3868108.83	5.91776b	(12120724)
398138.49	3868131.56	5.71946b	(12120724)
398147.90	3868154.29	5.50322b	(12120724)
398157.32	3868177.02	5.27174b	(12120724)
398166.73	3868199.74	5.02758b	(12120724)
398176.15	3868222.47	4.77242b	(12120724)
398185.56	3868245.20	4.50919b	(12120724)
398194.98	3868267.93	4.23953b	(12120724)
398204.39	3868290.65	3.96533b	(12120724)
398213.81	3868313.38	3.69238b	(12120724)
398223.22	3868336.11	3.68142b	(13011424)
398232.64	3868358.84	3.87036b	(13011424)
398242.05	3868381.56	4.04437b	(13011424)
398251.47	3868404.29	4.20118b	(13011424)
398260.88	3868427.02	4.33917b	(13011424)
398270.30	3868449.75	4.45750b	(13011424)
398279.71	3868472.47	4.55600b	(13011424)
398289.13	3868495.20	4.63972b	(13011424)
398298.54	3868517.93	4.70469b	(13011424)
398307.96	3868540.66	4.74637b	(13011424)
398317.37	3868563.38	4.76595b	(13011424)
398326.79	3868586.11	4.76529b	(13011424)
398336.20	3868608.84	4.74690b	(13011424)
398345.62	3868631.57	4.71154b	(13011424)
398355.03	3868654.29	4.66028b	(13011424)
398364.45	3868677.02	4.60131b	(13011424)
398373.86	3868699.75	4.53200b	(13011424)
398383.28	3868722.48	4.43543b	(13011424)
398392.69	3868745.20	4.33828b	(13011424)
398402.11	3868767.93	4.22176b	(13011424)
398411.52	3868790.66	4.08484b	(13011424)
398420.94	3868813.39	3.93150b	(13011424)
398430.35	3868836.11	3.77504b	(13011424)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 144

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
398439.77	3868858.84	3.60886b (13011424)	
398449.18	3868881.57	3.42932b (13011424)	
398458.60	3868904.30	3.24144b (13011424)	
398468.01	3868927.02	3.04666b (13011424)	
398477.43	3868949.75	2.85386b (13011424)	
398486.84	3868972.48	2.65344b (13011424)	
398496.26	3868995.21	2.44677b (13011424)	
398505.67	3869017.93	2.41154b (12123124)	
398515.09	3869040.66	2.37624b (12123124)	
396724.50	3867263.47	3.73321c (13020424)	
396699.62	3867263.47	3.45031c (13020424)	
396674.74	3867263.47	3.16080c (13020424)	
396649.86	3867263.47	3.18222b (13021424)	
396624.98	3867263.47	3.20103b (13021424)	
396600.10	3867263.47	3.21304b (13021424)	
396575.21	3867263.47	3.22019b (13021424)	
396550.33	3867263.47	3.22395b (13021424)	
396525.45	3867263.47	3.25449b (13021424)	
396500.57	3867263.47	3.26814b (13021424)	
396475.69	3867263.47	3.26921b (13021424)	
396450.81	3867263.47	3.26251b (13021424)	
396425.93	3867263.47	3.25649b (13021424)	
396401.05	3867263.47	3.26996b (13021424)	
396376.17	3867263.47	3.25945b (13021424)	
396351.29	3867263.47	3.23275b (13021424)	
396326.41	3867263.47	3.19325b (13021424)	
396301.53	3867263.47	3.14131b (13021424)	
396276.65	3867263.47	3.07429b (13021424)	
396251.76	3867263.47	2.98996b (13021424)	
396226.88	3867263.47	2.88591b (13021424)	
396202.00	3867263.47	2.78850b (13121124)	
396177.12	3867263.47	2.78997b (13121124)	

	396152.24	3867263.47	2.79194b (13121124)
396127.36	3867263.47	2.79840b (13121124)	
	396102.48	3867263.47	2.78597b (13121124)
396077.60	3867263.47	2.76725b (13121124)	
	396052.72	3867263.47	2.74098b (13121124)
396027.84	3867263.47	2.70585b (13121124)	
	396002.96	3867263.47	2.66304b (13121124)
395978.08	3867263.47	2.61422b (13121124)	
	395953.19	3867263.47	2.54360b (13121124)
395928.31	3867263.47	2.55976b (13122724)	
	395903.43	3867263.47	2.80362b (13122724)
395878.55	3867263.47	3.04588b (13122724)	
	395853.67	3867263.47	3.28591b (13122724)
395828.79	3867263.47	3.52150b (13122724)	
	396747.38	3866872.95	2.87007c (13122524)
396770.25	3866882.42	2.89760c (13122524)	
	396793.13	3866891.90	2.92957c (13122524)
396816.01	3866901.37	3.02931c (13020424)	
	396838.88	3866910.85	3.30668c (13020424)
396861.76	3866920.32	3.58058c (13020424)	
	396884.64	3866929.80	3.83612c (13020424)
396907.51	3866939.27	4.06437c (13020424)	
	396930.39	3866948.75	4.26349c (13020424)
396953.26	3866958.22	4.48331c (13020424)	
	396976.14	3866967.70	4.69423c (13020424)
396999.02	3866977.18	4.88887c (13020424)	
	397021.89	3866986.65	5.06579c (13020424)
397044.77	3866996.13	5.22561c (13020424)	
	397067.65	3867005.60	5.36764c (13020424)
397090.52	3867015.08	5.48747c (13020424)	
	397113.40	3867024.55	5.49531c (13020424)
397136.28	3867034.03	5.56660c (13020424)	
	397159.15	3867043.50	5.59911c (13020424)
397182.03	3867052.98	5.57205c (13020424)	
	397204.91	3867062.45	5.63561c (13020424)
397227.78	3867071.93	5.62059c (13020424)	
	397250.66	3867081.41	5.58789c (13020424)
397273.54	3867090.88	5.53165c (13020424)	
	397296.41	3867100.36	5.45942c (13020424)
397319.29	3867109.83	5.36176c (13020424)	
	397342.16	3867119.31	5.24176c (13020424)
397365.04	3867128.78	5.09210c (13020424)	
	397387.92	3867138.26	4.93380c (13020424)
397410.79	3867147.73	4.78202c (13020424)	
	397433.67	3867157.21	4.60155c (13020424)
397456.55	3867166.68	4.39193c (13020424)	
	397479.42	3867176.16	4.17761c (13020424)
397502.30	3867185.64	3.94555c (13020424)	

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 145

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE      1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S):      AREA1      ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL		IN
		**		
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
397525.18	3867195.11	3.69893c	(13020424)	
397548.05	3867204.59	3.44209c	(13020424)	
397570.93	3867214.06	3.17848c	(13020424)	
397593.81	3867223.54	2.93533b	(13021224)	
397616.68	3867233.01	2.89403b	(13021224)	
397639.56	3867242.49	2.98351b	(13010324)	
397662.44	3867251.96	3.27387b	(13010324)	
397685.31	3867261.44	3.56976b	(13010324)	
397708.19	3867270.91	3.86919b	(13010324)	
397731.06	3867280.39	4.16970b	(13010324)	
397753.94	3867289.87	4.46921b	(13010324)	
397776.82	3867299.34	4.76535b	(13010324)	
397799.69	3867308.82	5.05639b	(13010324)	
397822.57	3867318.29	5.33928b	(13010324)	
397845.45	3867327.77	5.61206b	(13010324)	
397868.32	3867337.24	5.87130b	(13010324)	
397891.20	3867346.72	6.09471b	(13010324)	
397914.08	3867356.19	6.31102b	(13010324)	
397936.95	3867365.67	6.51518b	(13010324)	
397959.83	3867375.14	6.69592b	(13010324)	
397982.71	3867384.62	6.85038b	(13010324)	
398005.58	3867394.10	6.97704b	(13010324)	
398028.46	3867403.57	7.07263b	(13010324)	
398051.34	3867413.05	7.12728b	(13010324)	
398074.21	3867422.52	7.13843b	(13010324)	
398097.09	3867432.00	7.13330b	(13010324)	
398119.96	3867441.47	7.09683b	(13010324)	
398142.84	3867450.95	7.02411b	(13010324)	
398165.72	3867460.42	6.90190b	(13010324)	
398188.59	3867469.90	6.76039b	(13010324)	
398211.47	3867479.37	6.59795b	(13010324)	
398234.35	3867488.85	6.40953b	(13010324)	

	398257.22	3867498.32	6.19773b (13010324)
398289.58	3867530.68	5.75069b (13010324)	
	398299.05	3867553.55	5.52051b (13010324)
398308.53	3867576.43	5.54570b (12120724)	
	398318.01	3867599.30	5.67521b (12120724)
398327.48	3867622.18	5.77904b (12120724)	
	398336.96	3867645.06	5.85961b (12120724)
398346.44	3867667.93	5.91850b (12120724)	
	398355.91	3867690.81	5.94900b (12120724)
398365.39	3867713.68	5.95160b (12120724)	
	398374.86	3867736.56	5.92613b (12120724)
398384.34	3867759.44	5.87302b (12120724)	
	398393.82	3867782.31	5.79381b (12120724)
398403.29	3867805.19	5.68893b (12120724)	
	398412.77	3867828.07	5.56088b (12120724)
398422.25	3867850.94	5.41110b (12120724)	
	398431.72	3867873.82	5.24187b (12120724)
398441.20	3867896.69	5.05575b (12120724)	
	398450.68	3867919.57	4.85445b (12120724)
398460.15	3867942.45	4.64033b (12120724)	
	398469.63	3867965.32	4.41515b (12120724)
398479.11	3867988.20	4.18151b (12120724)	
	398488.58	3868011.07	3.94128b (12120724)
398498.06	3868033.95	3.69664b (12120724)	
	398507.54	3868056.83	3.44929b (12120724)
398517.01	3868079.70	3.20111b (12120724)	
	398526.49	3868102.58	2.95368b (12120724)
398535.96	3868125.45	2.84240b (13011424)	
	398545.44	3868148.33	3.02364b (13011424)
398554.92	3868171.21	3.19819b (13011424)	
	398564.39	3868194.08	3.36146b (13011424)
398573.87	3868216.96	3.51177b (13011424)	
	398583.35	3868239.83	3.64985b (13011424)
398592.82	3868262.71	3.77493b (13011424)	
	398602.30	3868285.59	3.88854b (13011424)
398611.78	3868308.46	3.98598b (13011424)	
	398621.25	3868331.34	4.06682b (13011424)
398630.73	3868354.21	4.13084b (13011424)	
	398640.21	3868377.09	4.17801b (13011424)
398649.68	3868399.97	4.20840b (13011424)	
	398659.16	3868422.84	4.22176b (13011424)
398668.64	3868445.72	4.21892b (13011424)	
	398678.11	3868468.59	4.20033b (13011424)
398687.59	3868491.47	4.16652b (13011424)	
	398697.06	3868514.35	4.11787b (13011424)
398706.54	3868537.22	4.04486b (13011424)	
	398716.02	3868560.10	3.96396b (13011424)
398725.49	3868582.97	3.87546b (13011424)	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***   ***
***                               18:08:39

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PAGE 146

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
398734.97	3868605.85	3.77463b	(13011424)	
398744.45	3868628.73	3.66243b	(13011424)	
398753.92	3868651.60	3.53951b	(13011424)	
398763.40	3868674.48	3.40670b	(13011424)	
398772.88	3868697.35	3.26477b	(13011424)	
398782.35	3868720.23	3.11485b	(13011424)	
398791.83	3868743.11	2.95783b	(13011424)	
398801.31	3868765.98	2.79504b	(13011424)	
398810.78	3868788.86	2.62754b	(13011424)	
398820.26	3868811.74	2.45681b	(13011424)	
398829.74	3868834.61	2.28962b	(13011424)	
398839.21	3868857.49	2.20159b	(12123124)	
398848.69	3868880.36	2.18704b	(12123124)	
398858.16	3868903.24	2.16476b	(12123124)	
398867.64	3868926.12	2.14044b	(12123124)	
398877.12	3868948.99	2.10901b	(12123124)	
398886.59	3868971.87	2.06883b	(12123124)	
398896.07	3868994.74	2.02539b	(12123124)	
398905.55	3869017.62	1.97315b	(12123124)	
398915.02	3869040.50	1.91106b	(12123124)	
396724.50	3866863.47	2.89476b	(13021424)	
396699.62	3866863.47	2.93335b	(13021424)	
396674.74	3866863.47	2.96174b	(13021424)	
396649.86	3866863.47	2.98187b	(13021424)	
396624.98	3866863.47	2.99569b	(13021424)	
396600.10	3866863.47	3.00385b	(13021424)	
396575.21	3866863.47	3.00751b	(13021424)	
396550.33	3866863.47	3.00731b	(13021424)	
396525.45	3866863.47	3.00337b	(13021424)	
396500.57	3866863.47	2.99529b	(13021424)	
396475.69	3866863.47	2.98280b	(13021424)	
396450.81	3866863.47	2.96498b	(13021424)	

	396425.93	3866863.47	2.94061b (13021424)
396401.05	3866863.47	2.90855b (13021424)	
	396376.17	3866863.47	2.86714b (13021424)
396351.29	3866863.47	2.81491b (13021424)	
	396326.41	3866863.47	2.75111b (13021424)
396301.53	3866863.47	2.68056b (13021424)	
	396276.65	3866863.47	2.60536b (13021424)
396251.76	3866863.47	2.49451b (13021424)	
	396226.88	3866863.47	2.48747b (13121124)
396202.00	3866863.47	2.49600b (13121124)	
	396177.12	3866863.47	2.49937b (13121124)
396152.24	3866863.47	2.49762b (13121124)	
	396127.36	3866863.47	2.49061b (13121124)
396102.48	3866863.47	2.47866b (13121124)	
	396077.60	3866863.47	2.46773b (13121124)
396052.72	3866863.47	2.44440b (13121124)	
	396027.84	3866863.47	2.41072b (13121124)
396002.96	3866863.47	2.36849b (13121124)	
	395978.08	3866863.47	2.31716b (13121124)
395953.19	3866863.47	2.25588b (13121124)	
	395928.31	3866863.47	2.18440b (13121124)
395903.43	3866863.47	2.10712b (13121124)	
	395878.55	3866863.47	2.01819b (13121124)
395853.67	3866863.47	1.91655b (13121124)	
	395828.79	3866863.47	1.93892b (13122724)
396747.48	3866472.99	2.69649b (13021424)	
	396770.46	3866482.51	2.65923b (13021424)
396793.44	3866492.03	2.61202c (13122524)	
	396816.42	3866501.54	2.66733c (13122524)
396839.40	3866511.06	2.71419c (13122524)	
	396862.38	3866520.58	2.75303c (13122524)
396885.36	3866530.10	2.78463c (13122524)	
	396908.34	3866539.62	2.80928c (13122524)
396931.32	3866549.14	2.82753c (13122524)	
	396954.30	3866558.66	3.05519c (13020424)
396977.29	3866568.17	3.30762c (13020424)	
	397000.27	3866577.69	3.54399c (13020424)
397023.25	3866587.21	3.80357c (13020424)	
	397046.23	3866596.73	4.04818c (13020424)
397069.21	3866606.25	4.25633c (13020424)	
	397092.19	3866615.77	4.44949c (13020424)
397115.17	3866625.28	4.62693c (13020424)	
	397138.15	3866634.80	4.81090c (13020424)
397161.13	3866644.32	4.98002c (13020424)	
	397184.11	3866653.84	5.05730c (13020424)
397207.09	3866663.36	5.20230c (13020424)	
	397230.07	3866672.88	5.30083c (13020424)
397253.05	3866682.40	5.37517c (13020424)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 147

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
397276.03	3866691.91	5.43924c	(13020424)	
397299.01	3866701.43	5.46959c	(13020424)	
397321.99	3866710.95	5.48073c	(13020424)	
397344.97	3866720.47	5.50946c	(13020424)	
397367.95	3866729.99	5.53008c	(13020424)	
397390.93	3866739.51	5.53177c	(13020424)	
397413.91	3866749.03	5.48671c	(13020424)	
397436.89	3866758.54	5.41391c	(13020424)	
397459.87	3866768.06	5.31860c	(13020424)	
397482.86	3866777.58	5.20498c	(13020424)	
397505.84	3866787.10	5.07753c	(13020424)	
397528.82	3866796.62	4.92736c	(13020424)	
397551.80	3866806.14	4.74501c	(13020424)	
397574.78	3866815.66	4.53776c	(13020424)	
397597.76	3866825.17	4.32965c	(13020424)	
397620.74	3866834.69	4.10654c	(13020424)	
397643.72	3866844.21	3.85824c	(13020424)	
397666.70	3866853.73	3.59909c	(13020424)	
397689.68	3866863.25	3.34541c	(13020424)	
397712.66	3866872.77	3.07379c	(13020424)	
397735.64	3866882.28	2.84775b	(13021224)	
397758.62	3866891.80	2.82120b	(13021224)	
397781.60	3866901.32	2.78054b	(13021224)	
397804.58	3866910.84	2.72392b	(13021224)	
397827.56	3866920.36	2.66082b	(13021224)	
397850.54	3866929.88	2.58357b	(12122824)	
397873.52	3866939.40	2.79624b	(12122824)	
397896.50	3866948.91	3.03382b	(13010324)	
397919.48	3866958.43	3.30368b	(13010324)	
397942.46	3866967.95	3.57704b	(13010324)	
397965.44	3866977.47	3.84848b	(13010324)	
397988.43	3866986.99	4.10419b	(13010324)	

	398011.41	3866996.51	4.37376b (13010324)
398034.39	3867006.03	4.62596b (13010324)	
	398057.37	3867015.54	4.86997b (13010324)
398080.35	3867025.06	5.11713b (13010324)	
	398103.33	3867034.58	5.33137b (13010324)
398126.31	3867044.10	5.54857b (13010324)	
	398149.29	3867053.62	5.74435b (13010324)
398172.27	3867063.14	5.90834b (13010324)	
	398195.25	3867072.66	6.05145b (13010324)
398218.23	3867082.17	6.19839b (13010324)	
	398241.21	3867091.69	6.32873b (13010324)
398264.19	3867101.21	6.43355b (13010324)	
	398287.17	3867110.73	6.51177b (13010324)
398310.15	3867120.25	6.56191b (13010324)	
	398333.13	3867129.77	6.59828b (13010324)
398356.11	3867139.28	6.60322b (13010324)	
	398379.09	3867148.80	6.55589b (13010324)
398402.07	3867158.32	6.47890b (13010324)	
	398425.05	3867167.84	6.37754b (13010324)
398448.03	3867177.36	6.25734b (13010324)	
	398471.01	3867186.88	6.11190b (13010324)
398494.00	3867196.40	5.94332b (13010324)	
	398516.98	3867205.91	5.75392b (13010324)
398539.96	3867215.43	5.54635b (13010324)	
	398572.46	3867247.93	5.09723b (13010324)
398581.98	3867270.91	4.87281b (13010324)	
	398591.50	3867293.89	4.97387b (12120724)
398601.01	3867316.87	5.11474b (12120724)	
	398610.53	3867339.85	5.23636b (12120724)
398620.05	3867362.83	5.33690b (12120724)	
	398629.57	3867385.81	5.40941b (12120724)
398639.09	3867408.79	5.46028b (12120724)	
	398648.61	3867431.77	5.47843b (12120724)
398658.13	3867454.75	5.48555b (12120724)	
	398667.65	3867477.73	5.46552b (12120724)
398677.17	3867500.71	5.42394b (12120724)	
	398686.69	3867523.69	5.35902b (12120724)
398696.21	3867546.67	5.27199b (12120724)	
	398705.73	3867569.65	5.16370b (12120724)
398715.25	3867592.63	5.03578b (12120724)	
	398724.77	3867615.61	4.88986b (12120724)
398734.29	3867638.59	4.72739b (12120724)	
	398743.81	3867661.57	4.55042b (12120724)
398753.33	3867684.55	4.36085b (12120724)	
	398762.85	3867707.53	4.15933b (12120724)
398772.37	3867730.51	3.93771b (12120724)	
	398781.89	3867753.49	3.72129b (12120724)
398791.41	3867776.47	3.49912b (12120724)	


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 148

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*** MODELOPTs:    RegDEFAULT  CONC  ELEV  RURAL

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*** THE    1ST HIGHEST 24-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL    ***
                INCLUDING SOURCE(S):    AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL		IN
		**		
X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
398810.44	3867799.45	3.27672b	(12120724)	
398819.96	3867822.43	3.05298b	(12120724)	
398829.48	3867845.41	2.82948b	(12120724)	
398839.00	3867868.39	2.60312b	(12120724)	
398848.52	3867891.37	2.39717	(12122524)	
398858.04	3867914.35	2.37093	(12122524)	
398867.56	3867937.33	2.35603b	(13011424)	
398877.08	3867960.31	2.51600b	(13011424)	
398886.60	3867983.29	2.67293b	(13011424)	
398896.12	3868006.27	2.82523b	(13011424)	
398905.64	3868029.25	2.97129b	(13011424)	
398915.16	3868052.23	3.10951b	(13011424)	
398924.68	3868075.21	3.23511b	(13011424)	
398934.20	3868098.19	3.34487b	(13011424)	
398943.72	3868121.17	3.45120b	(13011424)	
398953.24	3868144.15	3.54512b	(13011424)	
398962.76	3868167.13	3.62562b	(13011424)	
398972.28	3868190.11	3.69233b	(13011424)	
398981.80	3868213.09	3.74469b	(13011424)	
398991.32	3868236.07	3.78257b	(13011424)	
399000.84	3868259.05	3.80010b	(13011424)	
399010.36	3868282.03	3.80128b	(13011424)	
399019.87	3868305.01	3.79559b	(13011424)	
399029.39	3868327.99	3.77587b	(13011424)	
399038.91	3868350.97	3.74250b	(13011424)	
399048.43	3868373.95	3.69229b	(13011424)	
399057.95	3868396.93	3.62394b	(13011424)	
399067.47	3868419.91	3.55313b	(13011424)	
399076.99	3868442.89	3.47090b	(13011424)	
399086.51	3868465.87	3.37810b	(13011424)	
399096.03	3868488.85	3.27528b	(13011424)	
	3868511.83	3.16337b	(13011424)	

399105.55	3868534.81	3.04312b	(13011424)
399115.07	3868557.79	2.91549b	(13011424)
399124.59	3868580.77	2.78136b	(13011424)
399134.11	3868603.75	2.64189b	(13011424)
399143.63	3868626.73	2.49803b	(13011424)
399153.15	3868649.71	2.35095b	(13011424)
399162.67	3868672.69	2.20176b	(13011424)
399172.19	3868695.67	2.05165b	(13011424)
399181.71	3868718.65	2.00947b	(12123124)
399191.23	3868741.63	2.00701b	(12123124)
399200.75	3868764.61	1.99792b	(12123124)
399210.27	3868787.59	1.98057b	(12123124)
399219.79	3868810.57	1.96123b	(12123124)
399229.30	3868833.55	1.93201b	(12123124)
399238.82	3868856.53	1.89816b	(12123124)
399248.34	3868879.51	1.85687b	(12123124)
399257.86	3868902.49	1.80987b	(12123124)
399267.38	3868925.47	1.75744b	(12123124)
399276.90	3868948.45	1.70146b	(12123124)
399286.42	3868971.43	1.63952b	(12123124)
399295.94	3868994.41	1.60720b	(13121824)
399305.46	3869017.39	1.58806b	(13121824)
399314.98	3869040.37	1.56399b	(13121824)
396724.50	3866463.47	2.72482b	(13021424)
396699.62	3866463.47	2.75219b	(13021424)
396674.74	3866463.47	2.77192b	(13021424)
396649.86	3866463.47	2.78510b	(13021424)
396624.98	3866463.47	2.79240b	(13021424)
396600.10	3866463.47	2.79438b	(13021424)
396575.21	3866463.47	2.79124b	(13021424)
396550.33	3866463.47	2.78310b	(13021424)
396525.45	3866463.47	2.76974b	(13021424)
396500.57	3866463.47	2.75046b	(13021424)
396475.69	3866463.47	2.72437b	(13021424)
396450.81	3866463.47	2.69106b	(13021424)
396425.93	3866463.47	2.64910b	(13021424)
396401.05	3866463.47	2.59734b	(13021424)
396376.17	3866463.47	2.53534b	(13021424)
396351.29	3866463.47	2.46177b	(13021424)
396326.41	3866463.47	2.37620b	(13021424)
396301.53	3866463.47	2.27837b	(13021424)
396276.65	3866463.47	2.19594b	(13121124)
396251.76	3866463.47	2.21996b	(13121124)
396226.88	3866463.47	2.23781b	(13121124)
396202.00	3866463.47	2.24976b	(13121124)
396177.12	3866463.47	2.25596b	(13121124)
396152.24	3866463.47	2.25736b	(13121124)
396127.36	3866463.47	2.25496b	(13121124)

*** AERMOD - VERSION 16216r *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 ***
*** 18:08:39

PAGE 149

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
396102.48	3866463.47	2.24761b	(13121124)	
396077.60	3866463.47	2.23073b	(13121124)	
396052.72	3866463.47	2.20707b	(13121124)	
396027.84	3866463.47	2.17652b	(13121124)	
396002.96	3866463.47	2.13874b	(13121124)	
395978.08	3866463.47	2.09353b	(13121124)	
395953.19	3866463.47	2.04246b	(13121124)	
395928.31	3866463.47	1.98392b	(13121124)	
395903.43	3866463.47	1.91547b	(13121124)	
395878.55	3866463.47	1.83852b	(13121124)	
395853.67	3866463.47	1.75465b	(13121124)	
395828.79	3866463.47	1.66409b	(13121124)	
395803.79	3869063.41	15.04509b	(13121724)	
395803.73	3869088.30	15.66593b	(13121724)	
395803.66	3869113.19	15.99884b	(13121724)	
395803.60	3869138.08	16.18960b	(13121724)	
395803.54	3869162.97	16.30562b	(13121724)	
395803.48	3869187.86	16.35477b	(13121724)	
395803.41	3869212.75	16.38762b	(13121724)	
395803.35	3869237.64	16.38949b	(13121724)	
395803.29	3869262.53	16.38439b	(13121724)	
395803.23	3869287.42	16.33069b	(13121724)	
395803.16	3869312.31	16.24991b	(13121724)	
395803.10	3869337.20	16.14195b	(13121724)	
395803.04	3869362.09	16.00576b	(13121724)	
395802.97	3869386.98	15.84010b	(13121724)	
395802.91	3869411.87	15.64406b	(13121724)	
395802.85	3869436.76	15.41612b	(13121724)	
395802.79	3869461.65	15.15513b	(13121724)	
395802.72	3869486.54	14.85938b	(13121724)	
395802.66	3869511.43	14.52757b	(13121724)	
395802.60	3869536.32	14.16022b	(13121724)	

395802.53	3869561.21	13.75484b	(13121724)
395802.47	3869586.10	13.31265b	(13121724)
395802.41	3869610.99	12.84662b	(13121724)
395802.35	3869635.88	12.35762b	(13121724)
395802.28	3869660.77	11.80446b	(13121724)
395802.22	3869685.66	11.21799b	(13121724)
395802.16	3869710.55	10.58519b	(13121724)
395802.10	3869735.44	9.91094b	(13121724)
395802.03	3869760.33	9.19314b	(13121724)
395801.97	3869785.23	8.43049b	(13121724)
395801.91	3869810.12	7.61943b	(13121724)
395801.84	3869835.01	6.76299b	(12120524)
395801.78	3869859.90	6.73934b	(12120524)
395801.72	3869884.79	6.69908b	(12120524)
395801.66	3869909.68	6.63967b	(12120524)
395801.59	3869934.57	6.54160b	(12120524)
395801.53	3869959.46	6.41068b	(12120524)
395786.13	3869045.71	14.50093b	(13121724)
395778.73	3869088.23	15.24593b	(13121724)
395778.66	3869113.12	15.50968b	(13121724)
395778.60	3869138.01	15.68204b	(13121724)
395778.54	3869162.91	15.79241b	(13121724)
395778.48	3869187.80	15.85650b	(13121724)
395778.41	3869212.69	15.88374b	(13121724)
395778.35	3869237.58	15.88209b	(13121724)
395778.29	3869262.47	15.84727b	(13121724)
395778.23	3869287.36	15.78419b	(13121724)
395778.16	3869312.25	15.69299b	(13121724)
395778.10	3869337.14	15.57376b	(13121724)
395778.04	3869362.03	15.42561b	(13121724)
395777.97	3869386.92	15.24718b	(13121724)
395777.91	3869411.81	15.03800b	(13121724)
395777.85	3869436.70	14.79659b	(13121724)
395777.79	3869461.59	14.52196b	(13121724)
395777.72	3869486.48	14.21322b	(13121724)
395777.66	3869511.37	13.86951b	(13121724)
395777.60	3869536.26	13.48993b	(13121724)
395777.53	3869561.15	13.06273b	(13121724)
395777.47	3869586.04	12.61070b	(13121724)
395777.41	3869610.93	12.12210b	(13121724)
395777.35	3869635.82	11.59831b	(13121724)
395777.28	3869660.71	11.03873b	(13121724)
395777.22	3869685.60	10.44250b	(13121724)
395777.16	3869710.49	9.80681b	(13121724)
395777.10	3869735.38	9.13046b	(13121724)
395777.03	3869760.27	8.41075b	(13121724)
395776.97	3869785.16	7.64767b	(13121724)
395776.91	3869810.05	6.84123b	(13121724)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 150

*** MODELOPTs: RegDFault CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,
 *** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
395776.84	3869834.94	6.52775b	(12120524)	
395776.78	3869859.83	6.49021b	(12120524)	
395776.72	3869884.72	6.44735b	(12120524)	
395776.66	3869909.61	6.39077b	(12120524)	
395776.59	3869934.50	6.31701b	(12120524)	
395776.53	3869959.39	6.25593b	(12120524)	
395761.13	3869045.64	14.38450b	(13121724)	
395793.48	3869003.07	14.07728m	(12121924)	
395753.73	3869088.17	14.84701b	(13121724)	
395753.66	3869113.06	15.04879b	(13121724)	
395753.60	3869137.95	15.19535b	(13121724)	
395753.54	3869162.84	15.29306b	(13121724)	
395753.48	3869187.73	15.34847b	(13121724)	
395753.41	3869212.62	15.36833b	(13121724)	
395753.35	3869237.51	15.35574b	(13121724)	
395753.29	3869262.40	15.31273b	(13121724)	
395753.23	3869287.29	15.24031b	(13121724)	
395753.16	3869312.18	15.13862b	(13121724)	
395753.10	3869337.07	15.00812b	(13121724)	
395753.04	3869361.96	14.84782b	(13121724)	
395752.97	3869386.85	14.65704b	(13121724)	
395752.91	3869411.74	14.43508b	(13121724)	
395752.85	3869436.64	14.18105b	(13121724)	
395752.79	3869461.53	13.89385b	(13121724)	
395752.72	3869486.42	13.56348b	(13121724)	
395752.66	3869511.31	13.19069b	(13121724)	
395752.60	3869536.20	12.80063b	(13121724)	
395752.53	3869561.09	12.35510b	(13121724)	
395752.47	3869585.98	11.89278b	(13121724)	
395752.41	3869610.87	11.39890b	(13121724)	
395752.35	3869635.76	10.86924b	(13121724)	
395752.28	3869660.65	10.30338b	(13121724)	

	395752.22	3869685.54	9.70210b (13121724)
395752.16	3869710.43	9.06237b (13121724)	
	395752.10	3869735.32	8.38364b (13121724)
395752.03	3869760.21	7.66330b (13121724)	
	395751.97	3869785.10	6.89527b (13121724)
395751.91	3869809.99	6.30699b (12120524)	
	395751.84	3869834.88	6.26814b (12120524)
395751.78	3869859.77	6.23784b (12120524)	
	395751.72	3869884.66	6.19911b (12120524)
395751.66	3869909.55	6.15144b (12120524)	
	395751.59	3869934.44	6.10330b (12120524)
395751.53	3869959.33	6.07168b (12120524)	
	395736.13	3869045.58	14.12651b (13121724)
395750.82	3869010.31	13.44091b (13121724)	
	395775.82	3868985.37	13.64772m (12121924)
395728.73	3869088.11	14.42408b (13121724)	
	395728.66	3869113.00	14.58021b (13121724)
395728.60	3869137.89	14.68514b (13121724)	
	395728.54	3869162.78	14.76200b (13121724)
395728.48	3869187.67	14.80675b (13121724)	
	395728.41	3869212.56	14.81769b (13121724)
395728.35	3869237.45	14.79626b (13121724)	
	395728.29	3869262.34	14.74423b (13121724)
395728.23	3869287.23	14.67850b (13121724)	
	395728.16	3869312.12	14.57196b (13121724)
395728.10	3869337.01	14.43032b (13121724)	
	395728.04	3869361.90	14.25398b (13121724)
395727.97	3869386.79	14.03250b (13121724)	
	395727.91	3869411.68	13.79766b (13121724)
395727.85	3869436.57	13.53134b (13121724)	
	395727.79	3869461.46	13.23268b (13121724)
395727.72	3869486.35	12.88529b (13121724)	
	395727.66	3869511.24	12.48945b (13121724)
395727.60	3869536.13	12.09095b (13121724)	
	395727.53	3869561.02	11.65842b (13121724)
395727.47	3869585.91	11.19196b (13121724)	
	395727.41	3869610.80	10.69151b (13121724)
395727.35	3869635.69	10.15670b (13121724)	
	395727.28	3869660.58	9.58620b (13121724)
395727.22	3869685.47	8.98117b (13121724)	
	395727.16	3869710.37	8.33891b (13121724)
395727.10	3869735.26	7.64284b (13121724)	
	395727.03	3869760.15	6.91635b (13121724)
395726.97	3869785.04	6.14914b (13121724)	
	395726.91	3869809.93	6.05205b (12120524)
395726.84	3869834.82	6.02993b (12120524)	
	395726.78	3869859.71	6.00185b (12120524)
395726.72	3869884.60	5.96779b (12120524)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 151

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF ALL IN
 **
 MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395726.66	3869909.49	5.93108b	(12120524)	
395726.59	3869934.38	5.90054b	(12120524)	
395726.53	3869959.27	5.87979b	(12120524)	
395687.60	3869041.93	13.43021b	(13121724)	
395696.42	3869020.76	13.31995b	(13121724)	
395705.23	3868999.60	13.00308b	(13121724)	
395714.04	3868978.43	12.47637b	(13121724)	
395744.04	3868948.51	12.81321m	(12121924)	
395765.23	3868939.75	13.18885m	(12121924)	
395786.42	3868930.99	13.37521b	(13122724)	
395807.60	3868922.23	13.69293b	(13122724)	
395678.79	3869063.09	13.39280b	(13121724)	
395678.73	3869087.98	13.50621b	(13121724)	
395678.66	3869112.87	13.60061b	(13121724)	
395678.60	3869137.76	13.67546b	(13121724)	
395678.54	3869162.65	13.72571b	(13121724)	
395678.48	3869187.54	13.74656b	(13121724)	
395678.41	3869212.43	13.73650b	(13121724)	
395678.35	3869237.32	13.69564b	(13121724)	
395678.29	3869262.21	13.62387b	(13121724)	
395678.23	3869287.10	13.52165b	(13121724)	
395678.16	3869311.99	13.38848b	(13121724)	
395678.10	3869336.88	13.22479b	(13121724)	
395678.04	3869361.78	13.03025b	(13121724)	
395677.97	3869386.67	12.80466b	(13121724)	
395677.91	3869411.56	12.54799b	(13121724)	
395677.85	3869436.45	12.25999b	(13121724)	
395677.79	3869461.34	11.94011b	(13121724)	
395677.72	3869486.23	11.58794b	(13121724)	
395677.66	3869511.12	11.20416b	(13121724)	
395677.60	3869536.01	10.78846b	(13121724)	
395677.53	3869560.90	10.34095b	(13121724)	

	395677.47	3869585.79	9.86124b (13121724)
395677.41	3869610.68	9.34742b (13121724)	
	395677.35	3869635.57	8.80084b (13121724)
395677.28	3869660.46	8.21248b (13121724)	
	395677.22	3869685.35	7.53832b (13121724)
395677.16	3869710.24	6.90121b (13121724)	
	395677.10	3869735.13	6.23198b (13121724)
395677.03	3869760.02	5.64524b (12120524)	
	395676.97	3869784.91	5.63789b (12120524)
395676.91	3869809.80	5.62481b (12120524)	
	395676.84	3869834.69	5.60692b (12120524)
395676.78	3869859.58	5.58573b (12120524)	
	395676.72	3869884.47	5.56372b (12120524)
395676.66	3869909.36	5.54302b (12120524)	
	395676.59	3869934.25	5.51560b (12120524)
395676.53	3869959.14	5.47478b (12120524)	
	395637.18	3869042.81	12.69457b (13121724)
395653.97	3869002.50	12.62787b (13121724)	
	395670.76	3868962.18	12.00118b (13121724)
395707.72	3868913.53	11.90174m (12121924)	
	395748.08	3868896.84	12.65566m (12121924)
395788.43	3868880.16	13.04730b (13122724)	
	395628.73	3869087.86	12.71678b (13121724)
395628.67	3869112.75	12.76956b (13121724)	
	395628.60	3869137.64	12.80977b (13121724)
395628.54	3869162.53	12.83024b (13121724)	
	395628.48	3869187.42	12.82577b (13121724)
395628.41	3869212.31	12.79300b (13121724)	
	395628.35	3869237.20	12.73086b (13121724)
395628.29	3869262.09	12.63831b (13121724)	
	395628.23	3869286.98	12.51520b (13121724)
395628.16	3869311.87	12.36100b (13121724)	
	395628.10	3869336.76	12.17615b (13121724)
395628.04	3869361.65	11.96046b (13121724)	
	395627.97	3869386.54	11.71385b (13121724)
395627.91	3869411.43	11.43656b (13121724)	
	395627.85	3869436.32	11.12855b (13121724)
395627.79	3869461.21	10.78950b (13121724)	
	395627.72	3869486.10	10.41989b (13121724)
395627.66	3869510.99	10.02013b (13121724)	
	395627.60	3869535.88	9.58979b (13121724)
395627.54	3869560.77	9.08029b (13121724)	
	395627.47	3869585.66	8.58246b (13121724)
395627.41	3869610.55	8.05322b (13121724)	
	395627.35	3869635.44	7.49616b (13121724)
395627.28	3869660.33	6.92219b (13121724)	
	395627.22	3869685.22	6.32134b (13121724)
395627.16	3869710.11	5.69515b (13121724)	


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***          10/09/17
*** AERMET - VERSION 14134 ***    ***
***          18:08:39

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PAGE 152

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*** MODELOPTs:    RegDEFAULT  CONC  ELEV  RURAL

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*** THE    1ST HIGHEST 24-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL    ***
                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395627.10	3869735.00	5.26277b	(12120524)	
395627.03	3869759.89	5.26928b	(12120524)	
395626.97	3869784.78	5.26824b	(12120524)	
395626.91	3869809.67	5.26144b	(12120524)	
395626.84	3869834.56	5.25061b	(12120524)	
395626.78	3869859.45	5.23822b	(12120524)	
395626.72	3869884.34	5.20813b	(12120524)	
395626.66	3869909.24	5.18255b	(12120524)	
395626.59	3869934.13	5.17149b	(12120524)	
395626.53	3869959.02	5.16878b	(12120524)	
395587.97	3869040.79	12.03705b	(13121724)	
395597.15	3869018.75	12.07380b	(13121724)	
395606.33	3868996.70	12.03683b	(13121724)	
395615.51	3868974.65	11.88840b	(13121724)	
395624.69	3868952.61	11.63315b	(13121724)	
395633.87	3868930.56	11.21357b	(13121724)	
395643.06	3868908.52	10.65276b	(13121724)	
395674.31	3868877.35	11.12725m	(12121924)	
395696.37	3868868.22	11.65649m	(12121924)	
395718.44	3868859.10	12.02586m	(12121924)	
395740.51	3868849.97	12.15807m	(12121924)	
395762.58	3868840.85	12.29371b	(13122724)	
395784.65	3868831.72	12.61458b	(13122724)	
395806.72	3868822.60	12.73221b	(13122724)	
395578.79	3869062.84	11.95992b	(13121724)	
395578.73	3869087.73	11.99009b	(13121724)	
395578.67	3869112.62	12.01125b	(13121724)	
395578.60	3869137.51	12.02116b	(13121724)	
395578.54	3869162.40	12.01435b	(13121724)	
395578.48	3869187.29	11.98474b	(13121724)	
395578.41	3869212.18	11.92885b	(13121724)	
395578.35	3869237.07	11.84463b	(13121724)	

	395578.29	3869261.96	11.73071b (13121724)
395578.23	3869286.85	11.58658b (13121724)	
	395578.16	3869311.74	11.41169b (13121724)
395578.10	3869336.63	11.20663b (13121724)	
	395578.04	3869361.52	10.96535b (13121724)
395577.97	3869386.41	10.67609b (13121724)	
	395577.91	3869411.30	10.37970b (13121724)
395577.85	3869436.19	10.05476b (13121724)	
	395577.79	3869461.08	9.67359b (13121724)
395577.72	3869485.97	9.26445b (13121724)	
	395577.66	3869510.86	8.85415b (13121724)
395577.60	3869535.75	8.41612b (13121724)	
	395577.54	3869560.65	7.94981b (13121724)
395577.47	3869585.54	7.45734b (13121724)	
	395577.41	3869610.43	6.93881b (13121724)
395577.35	3869635.32	6.39614b (13121724)	
	395577.28	3869660.21	5.83108b (13121724)
395577.22	3869685.10	5.24836b (13121724)	
	395577.16	3869709.99	4.89802b (12120524)
395577.10	3869734.88	4.92404b (12120524)	
	395577.03	3869759.77	4.93974b (12120524)
395576.97	3869784.66	4.94733b (12120524)	
	395576.91	3869809.55	4.94706b (12120524)
395576.84	3869834.44	4.93366b (12120524)	
	395576.78	3869859.33	4.91301b (12120524)
395576.72	3869884.22	4.90489b (12120524)	
	395576.66	3869909.11	4.90263b (12120524)
395576.59	3869934.00	4.90169b (12120524)	
	395576.53	3869958.89	4.90139b (12120524)
395504.36	3869041.25	11.01554b (13121724)	
	395513.26	3869019.87	11.10384b (13121724)
395522.17	3868998.50	11.16071b (13121724)	
	395531.07	3868977.12	11.16693b (13121724)
395539.97	3868955.74	11.10151b (13121724)	
	395548.87	3868934.36	10.94523b (13121724)
395557.78	3868912.98	10.68664b (13121724)	
	395566.68	3868891.60	10.33641b (13121724)
395575.58	3868870.23	9.89847b (13121724)	
	395584.48	3868848.85	9.38204b (13121724)
395614.79	3868818.62	9.88504m (12121924)	
	395636.19	3868809.77	10.41509m (12121924)
395657.59	3868800.93	10.86107m (12121924)	
	395678.99	3868792.08	11.15947m (12121924)
395700.39	3868783.23	11.33551m (12121924)	
	395721.79	3868774.38	11.39525m (12121924)
395743.19	3868765.53	11.55510b (13122724)	
	395764.59	3868756.68	11.82184b (13122724)
395785.99	3868747.83	11.74721b (13122724)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 153

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL		IN
		**		
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395495.46	3869062.63	10.90011b	(13121724)	
395495.33	3869112.41	10.86195b	(13121724)	
395495.21	3869162.19	10.74684b	(13121724)	
395495.08	3869211.97	10.55465b	(13121724)	
395494.96	3869261.75	10.28647b	(13121724)	
395494.83	3869311.53	9.90294b	(13121724)	
395494.70	3869361.31	9.40328b	(13121724)	
395494.58	3869411.09	8.79023b	(13121724)	
395494.45	3869460.87	8.06849b	(13121724)	
395494.33	3869510.65	7.24513b	(13121724)	
395494.20	3869560.43	6.32946b	(13121724)	
395494.08	3869610.22	5.33546b	(13121724)	
395493.95	3869660.00	4.30216b	(13121724)	
395493.83	3869709.78	4.35994b	(12120524)	
395493.70	3869759.56	4.43681b	(12120524)	
395493.57	3869809.34	4.48070b	(12120524)	

395493.51	3869834.23	4.49390b	(12120524)
395493.45	3869859.12	4.50349b	(12120524)
395493.39	3869884.01	4.51076b	(12120524)
395493.32	3869908.90	4.51628b	(12120524)
395493.26	3869933.79	4.52051b	(12120524)
395493.20	3869958.68	4.52356b	(12120524)
395421.54	3869039.81	10.03563b	(13121724)
395430.96	3869017.20	10.15908b	(13121724)
395440.37	3868994.58	10.26242b	(13121724)
395449.79	3868971.97	10.35105b	(13121724)
395459.21	3868949.36	10.39041b	(13121724)
395468.62	3868926.75	10.36164b	(13121724)
395478.04	3868904.14	10.23759b	(13121724)
395487.45	3868881.53	10.02207b	(13121724)
395496.87	3868858.92	9.71339b	(13121724)
395506.29	3868836.31	9.31931b	(13121724)
395515.70	3868813.69	8.85356b	(13121724)
395525.12	3868791.08	8.33705b	(13121724)
395557.17	3868759.11	8.85816m	(12121924)
395579.80	3868749.75	9.40255m	(12121924)
395602.44	3868740.39	9.88647m	(12121924)
395625.07	3868731.03	10.27691m	(12121924)
395647.71	3868721.68	10.52120m	(12121924)
395670.34	3868712.32	10.66942m	(12121924)
395692.98	3868702.96	10.63920m	(12121924)
395715.61	3868693.60	10.55440b	(13122724)
395738.25	3868684.24	10.84054b	(13122724)
395760.88	3868674.88	10.79656b	(13122724)
395783.52	3868665.52	10.76771b	(13122724)
395806.15	3868656.16	10.76178b	(13122724)
395412.12	3869062.42	9.89649b	(13121724)
395412.06	3869087.31	9.84351b	(13121724)
395412.00	3869112.20	9.78154b	(13121724)
395411.94	3869137.09	9.70861b	(13121724)
395411.87	3869161.98	9.62061b	(13121724)
395411.81	3869186.87	9.51455b	(13121724)
395411.75	3869211.76	9.38588b	(13121724)
395411.69	3869236.65	9.23261b	(13121724)
395411.62	3869261.54	9.05282b	(13121724)
395411.56	3869286.43	8.84618b	(13121724)
395411.50	3869311.32	8.61224b	(13121724)
395411.43	3869336.21	8.32969b	(13121724)
395411.37	3869361.10	7.99944b	(13121724)
395411.31	3869385.99	7.68738b	(13121724)
395411.25	3869410.88	7.35077b	(13121724)
395411.18	3869435.77	6.98804b	(13121724)
395411.12	3869460.66	6.60470b	(13121724)
395411.06	3869485.55	6.20334b	(13121724)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 154

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395410.99	3869510.44	5.78443b	(13121724)	
395410.93	3869535.33	5.35066b	(13121724)	
395410.87	3869560.22	4.90669b	(13121724)	
395410.81	3869585.11	4.45707b	(13121724)	
395410.74	3869610.01	4.00686b	(13121724)	
395410.68	3869634.90	3.60738b	(12120524)	
395410.62	3869659.79	3.71919b	(12120524)	
395410.56	3869684.68	3.81575b	(12120524)	
395410.49	3869709.57	3.89775b	(12120524)	
395410.43	3869734.46	3.96628b	(12120524)	
395410.37	3869759.35	4.02277b	(12120524)	
395410.30	3869784.24	4.06851b	(12120524)	
395410.24	3869809.13	4.10531b	(12120524)	
395410.18	3869834.02	4.13464b	(12120524)	
395410.12	3869858.91	4.13883b	(12120524)	
395410.05	3869883.80	4.15071b	(12120524)	
395409.99	3869908.69	4.16419b	(12120524)	
395409.93	3869933.58	4.17426b	(12120524)	
395409.86	3869958.47	4.18179b	(12120524)	
395337.97	3869040.16	9.17757b	(13121724)	
395347.15	3869018.12	9.32535b	(13121724)	
395356.33	3868996.07	9.45682b	(13121724)	
395365.51	3868974.02	9.56775b	(13121724)	
395374.70	3868951.98	9.65149b	(13121724)	
395383.88	3868929.93	9.69770b	(13121724)	
395393.06	3868907.89	9.69635b	(13121724)	
395402.24	3868885.84	9.63668b	(13121724)	
395411.42	3868863.79	9.51004b	(13121724)	
395420.60	3868841.75	9.31493b	(13121724)	
395429.78	3868819.70	9.06988b	(13121724)	
395438.96	3868797.66	8.74610b	(13121724)	
395448.14	3868775.61	8.34877b	(13121724)	

	395457.32	3868753.56	7.90473b (13121724)
395466.50	3868731.52	7.42961b (13121724)	
	395497.75	3868700.35	7.91792m (12121924)
395519.82	3868691.22	8.43412m (12121924)	
	395541.89	3868682.10	8.90831m (12121924)
395563.96	3868672.97	9.32607m (12121924)	
	395586.03	3868663.85	9.66914m (12121924)
395608.10	3868654.72	9.89666m (12121924)	
	395630.17	3868645.60	10.04761m (12121924)
395652.24	3868636.47	10.09687m (12121924)	
	395674.31	3868627.35	9.94146m (12121924)
395696.37	3868618.22	10.05326b (13122724)	
	395718.44	3868609.10	10.29497b (13122724)
395740.51	3868599.97	10.42763b (13122724)	
	395762.58	3868590.85	10.31442b (13122724)
395784.65	3868581.72	10.26424b (13122724)	
	395806.72	3868572.60	10.23667b (13122724)
395328.79	3869062.21	9.01670b (13121724)	
	395328.73	3869087.10	8.92903b (13121724)
395328.67	3869111.99	8.83218b (13121724)	
	395328.60	3869136.88	8.72354b (13121724)
395328.54	3869161.77	8.60034b (13121724)	
	395328.48	3869186.66	8.44632b (13121724)
395328.41	3869211.55	8.25660b (13121724)	
	395328.35	3869236.44	8.05907b (13121724)
395328.29	3869261.33	7.85332b (13121724)	
	395328.23	3869286.22	7.62340b (13121724)
395328.16	3869311.11	7.36874b (13121724)	
	395328.10	3869336.00	7.08980b (13121724)
395328.04	3869360.89	6.78790b (13121724)	
	395327.98	3869385.78	6.46468b (13121724)
395327.91	3869410.67	6.12102b (13121724)	
	395327.85	3869435.56	5.75969b (13121724)
395327.79	3869460.45	5.38331b (13121724)	
	395327.72	3869485.34	4.99506b (13121724)
395327.66	3869510.23	4.59838b (13121724)	
	395327.60	3869535.12	4.19834b (13121724)
395327.54	3869560.01	3.79983b (13121724)	
	395327.47	3869584.90	3.40845b (13121724)
395327.41	3869609.80	3.03095b (13121724)	
	395327.35	3869634.69	3.12136b (12120524)
395327.28	3869659.58	3.25158b (12120524)	
	395327.22	3869684.47	3.36833b (12120524)
395327.16	3869709.36	3.47159b (12120524)	
	395327.10	3869734.25	3.56164b (12120524)
395327.03	3869759.14	3.63322b (12120524)	
	395326.97	3869784.03	3.69123b (12120524)
395326.91	3869808.92	3.74612b (12120524)	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           10/09/17
*** AERMET - VERSION 14134 ***   ***
***           18:08:39

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PAGE 155

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
395326.85	3869833.81	3.78756b (12120524)	
395326.78	3869858.70	3.82495b (12120524)	
395326.72	3869883.59	3.85517b (12120524)	
395326.66	3869908.48	3.87904b (12120524)	
395326.59	3869933.37	3.89757b (12120524)	
395326.53	3869958.26	3.91005b (12120524)	
395087.97	3869039.53	6.75292b (13121724)	
395097.15	3869017.49	6.97172b (13121724)	
395106.33	3868995.44	7.14976b (13121724)	
395115.52	3868973.39	7.34722b (13121724)	
395124.70	3868951.35	7.52351b (13121724)	
395133.88	3868929.30	7.66500b (13121724)	
395143.06	3868907.26	7.80268b (13121724)	
395152.24	3868885.21	7.95595b (13121724)	
395161.42	3868863.16	8.06303b (13121724)	
395170.60	3868841.12	8.12393b (13121724)	
395179.78	3868819.07	8.15037b (13121724)	
395188.96	3868797.02	8.13788b (13121724)	
395198.14	3868774.98	8.08292b (13121724)	
395207.32	3868752.93	7.98257b (13121724)	
395216.50	3868730.89	7.83526b (13121724)	
395225.68	3868708.84	7.64219b (13121724)	
395234.86	3868686.79	7.40682b (13121724)	
395244.04	3868664.75	7.14624b (13121724)	
395253.23	3868642.70	6.84198b (13121724)	
395262.41	3868620.66	6.50478b (13121724)	
395271.59	3868598.61	6.13872b (13121724)	
395280.77	3868576.56	5.75739b (13121724)	
395289.95	3868554.52	5.36735b (13121724)	
395321.20	3868523.35	5.71114m (12121924)	
395343.27	3868514.22	6.16869m (12121924)	
395365.34	3868505.10	6.60486m (12121924)	

	395387.41	3868495.97	7.01951m (12121924)
395409.48	3868486.85	7.40716m (12121924)	
	395431.54	3868477.72	7.77254m (12121924)
395453.61	3868468.60	8.07882m (12121924)	
	395475.68	3868459.47	8.32752m (12121924)
395497.75	3868450.35	8.51116m (12121924)	
	395519.82	3868441.22	8.62946m (12121924)
395541.89	3868432.10	8.69630m (12121924)	
	395563.96	3868422.97	8.68737m (12121924)
395586.03	3868413.85	8.57090m (12121924)	
	395608.10	3868404.72	8.49830m (12121924)
395630.17	3868395.60	8.75799b (13122724)	
	395652.24	3868386.47	8.89652b (13122724)
395674.31	3868377.35	8.93270b (13122724)	
	395696.37	3868368.22	8.99228b (13122724)
395718.44	3868359.10	9.02122b (13122724)	
	395740.51	3868349.97	9.01759b (13122724)
395762.58	3868340.85	8.99043b (13122724)	
	395784.65	3868331.72	8.86177b (13122724)
395806.72	3868322.60	8.72105b (13122724)	
	395078.79	3869061.58	6.51633b (13121724)
395078.73	3869086.47	6.34733b (13121724)	
	395078.67	3869111.36	6.16930b (13121724)
395078.60	3869136.25	5.98170b (13121724)	
	395078.54	3869161.14	5.78408b (13121724)
395078.48	3869186.03	5.57607b (13121724)	
	395078.42	3869210.92	5.35687b (13121724)
395078.35	3869235.81	5.12615b (13121724)	
	395078.29	3869260.70	4.88275b (13121724)
395078.23	3869285.59	4.62969b (13121724)	
	395078.16	3869310.48	3.94352b (13121724)
395078.10	3869335.37	3.59081b (13121724)	
	395078.04	3869360.26	3.29941b (13121724)
395077.98	3869385.15	3.00748b (13121724)	
	395077.91	3869410.04	2.71932b (13121724)
395077.85	3869434.93	2.43988b (13121724)	
	395077.79	3869459.82	2.17410b (13121724)
395077.73	3869484.71	1.92740b (13121724)	
	395077.66	3869509.60	1.70438b (13121724)
395077.60	3869534.49	1.50848b (13121724)	
	395077.54	3869559.38	1.34214b (13121724)
395077.47	3869584.27	1.34234b (12120524)	
	395077.41	3869609.16	1.51613b (12120524)
395077.35	3869634.05	1.68558b (12120524)	
	395077.29	3869658.95	1.84976b (12120524)
395077.22	3869683.84	2.00729b (12120524)	
	395077.16	3869708.73	2.15733b (12120524)
395077.10	3869733.62	2.29608b (12120524)	


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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 156

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE   1ST HIGHEST 24-HR AVERAGE
CONCENTRATION   VALUES FOR SOURCE GROUP:   ALL   ***
                INCLUDING SOURCE(S):   AREA1   ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL		IN
		**		
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395077.03	3869758.51	2.42572b	(12120524)	
395076.97	3869783.40	2.54568b	(12120524)	
395076.91	3869808.29	2.65301b	(12120524)	
395076.85	3869833.18	2.74811b	(12120524)	
395076.78	3869858.07	2.79159b	(12120524)	
395076.72	3869882.96	2.84638b	(12120524)	
395076.66	3869907.85	2.90220b	(12120524)	
395076.60	3869932.74	2.94684b	(12120524)	
395076.53	3869957.63	2.98143b	(12120524)	
394838.27	3869038.19	4.28225b	(13121724)	
394847.75	3869015.43	4.54641b	(13121724)	
394857.22	3868992.68	4.80030b	(13121724)	
394866.70	3868969.92	5.04280b	(13121724)	
394876.18	3868947.16	5.27165b	(13121724)	
394885.65	3868924.40	5.48642b	(13121724)	
394895.13	3868901.65	5.68535b	(13121724)	
394904.61	3868878.89	5.89953b	(13121724)	
394914.08	3868856.13	6.12387b	(13121724)	
394923.56	3868833.37	6.34261b	(13121724)	
394933.04	3868810.62	6.50019b	(13121724)	
394942.52	3868787.86	6.62003b	(13121724)	
394951.99	3868765.10	6.72029b	(13121724)	
394961.47	3868742.35	6.79850b	(13121724)	
394970.95	3868719.59	6.85190b	(13121724)	
394980.42	3868696.83	6.87629b	(13121724)	
394989.90	3868674.07	6.97640b	(13121724)	
394999.38	3868651.32	6.93192b	(13121724)	
395008.85	3868628.56	6.83029b	(13121724)	
395018.33	3868605.80	6.69244b	(13121724)	
395027.81	3868583.04	6.51968b	(13121724)	
395037.28	3868560.29	6.31398b	(13121724)	
395046.76	3868537.53	6.07824b	(13121724)	

395056.24	3868514.77	5.82381b	(13121724)
395065.71	3868492.02	5.54865b	(13121724)
395075.19	3868469.26	5.25575b	(13121724)
395084.67	3868446.50	4.94202b	(13121724)
395094.14	3868423.74	4.61793b	(13121724)
395103.62	3868400.99	4.29110b	(13121724)
395113.10	3868378.23	3.96426b	(13121724)
395145.36	3868346.05	4.15621m	(12121924)
395168.14	3868336.63	4.55316m	(12121924)
395190.92	3868327.21	4.93974m	(12121924)
395213.70	3868317.79	5.32258m	(12121924)
395236.48	3868308.37	5.69716m	(12121924)
395259.26	3868298.96	6.06181m	(12121924)
395282.04	3868289.54	6.41256m	(12121924)
395304.82	3868280.12	6.72206m	(12121924)
395327.61	3868270.70	6.99226m	(12121924)
395350.39	3868261.28	7.22050m	(12121924)
395373.17	3868251.86	7.41487m	(12121924)
395395.95	3868242.44	7.55139m	(12121924)
395418.73	3868233.02	7.63799m	(12121924)
395441.51	3868223.60	7.68046m	(12121924)
395464.29	3868214.18	7.68510m	(12121924)
395487.07	3868204.76	7.64013m	(12121924)
395509.85	3868195.34	7.54425m	(12121924)
395532.64	3868185.92	7.50316b	(13122724)
395555.42	3868176.50	7.73478b	(13122724)
395578.20	3868167.08	7.91248b	(13122724)
395600.98	3868157.66	8.00064b	(13122724)
395623.76	3868148.24	8.01292b	(13122724)
395646.54	3868138.83	8.05604b	(13122724)
395669.32	3868129.41	8.06764b	(13122724)
395692.10	3868119.99	8.05341b	(13122724)
395714.88	3868110.57	8.00692b	(13122724)
395737.67	3868101.15	7.87288b	(13122724)
395760.45	3868091.73	7.77434b	(13122724)
395783.23	3868082.31	7.69031b	(13122724)
395806.01	3868072.89	7.59115b	(13122724)
394828.79	3869060.95	4.00987b	(13121724)
394828.73	3869085.84	3.78491b	(13121724)
394828.67	3869110.73	3.55674b	(13121724)
394828.60	3869135.62	3.32595b	(13121724)
394828.54	3869160.51	3.09482b	(13121724)
394828.48	3869185.40	2.85147b	(13121724)
394828.42	3869210.29	2.59755b	(13121724)
394828.35	3869235.18	2.37819b	(13121724)
394828.29	3869260.07	2.16635b	(13121724)
394828.23	3869284.96	1.96446b	(13121724)
394828.17	3869309.85	1.77396b	(13121724)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 157

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
394828.10	3869334.74	1.59890b	(13121724)	
394828.04	3869359.63	1.44096b	(13121724)	
394827.98	3869384.52	1.30093b	(13121724)	
394827.91	3869409.41	1.17985b	(13121724)	
394827.85	3869434.30	1.07926b	(13121724)	
394827.79	3869459.19	0.99795b	(13121724)	
394827.73	3869484.08	0.93454b	(13121724)	
394827.66	3869508.97	0.88530b	(13121724)	
394827.60	3869533.86	0.84195b	(13121724)	
394827.54	3869558.75	0.82237b	(13121724)	
394827.47	3869583.64	0.81149b	(13121724)	
394827.41	3869608.53	0.80643b	(13121724)	
394827.35	3869633.42	0.80519b	(13121724)	
394827.29	3869658.31	0.81674b	(12120524)	
394827.22	3869683.20	0.96589b	(12120524)	
394827.16	3869708.10	1.11673b	(12120524)	
394827.10	3869732.99	1.26657b	(12120524)	
394827.04	3869757.88	1.41367b	(12120524)	
394826.97	3869782.77	1.55655b	(12120524)	
394826.91	3869807.66	1.69411b	(12120524)	
394826.85	3869832.55	1.82498b	(12120524)	
394826.78	3869857.44	1.94834b	(12120524)	
394826.72	3869882.33	2.06295b	(12120524)	
394826.66	3869907.22	2.16790b	(12120524)	
394826.60	3869932.11	2.26240b	(12120524)	
394826.53	3869957.00	2.34593b	(12120524)	
394447.92	3869036.97	1.39097b	(13121724)	
394447.92	3869014.00	1.62099b	(13121724)	
394467.05	3868991.03	1.84358b	(13121724)	
394467.05	3868968.06	2.07219b	(13121724)	
394486.18	3868945.09	2.30166b	(13121724)	
394486.18	3868922.13	2.50578b	(13121724)	

	394495.75	3868899.16	2.74272b (13121724)
394505.31	3868876.19	3.02859b (13121724)	
	394514.88	3868853.22	3.26336b (13121724)
394524.44	3868830.25	3.49184b (13121724)	
	394534.01	3868807.28	3.71104b (13121724)
394543.57	3868784.31	3.94310b (13121724)	
	394553.14	3868761.34	4.19384b (13121724)
394562.70	3868738.37	4.45243b (13121724)	
	394572.27	3868715.40	4.64423b (13121724)
394581.83	3868692.44	4.80588b (13121724)	
	394591.40	3868669.47	4.95226b (13121724)
394600.96	3868646.50	5.08272b (13121724)	
	394610.53	3868623.53	5.22387b (13121724)
394620.09	3868600.56	5.41501b (13121724)	
	394629.66	3868577.59	5.54682b (13121724)
394639.22	3868554.62	5.60741b (13121724)	
	394648.79	3868531.65	5.64544b (13121724)
394658.35	3868508.68	5.65836b (13121724)	
	394667.92	3868485.71	5.64437b (13121724)
394677.48	3868462.75	5.60122b (13121724)	
	394687.05	3868439.78	5.52732b (13121724)
394696.61	3868416.81	5.42158b (13121724)	
	394706.18	3868393.84	5.28436b (13121724)
394715.74	3868370.87	5.11673b (13121724)	
	394725.31	3868347.90	4.94646b (13121724)
394734.87	3868324.93	4.76340b (13121724)	
	394744.44	3868301.96	4.55369b (13121724)
394754.00	3868278.99	4.30786b (13121724)	
	394763.57	3868256.02	4.03141b (13121724)
394773.13	3868233.06	3.74721b (13121724)	
	394782.70	3868210.09	3.45863b (13121724)
394792.26	3868187.12	3.17019b (13121724)	
	394801.83	3868164.15	2.88537b (13121724)
394811.39	3868141.18	2.61222b (13121724)	
	394820.96	3868118.21	2.51376b (13021324)
394830.52	3868095.24	2.65121b (13021324)	
	394863.08	3868062.77	2.89656b (13021324)
394886.08	3868053.26	3.02289b (13021324)	
	394909.07	3868043.75	3.14288b (13021324)
394932.06	3868034.24	3.34875m (12121924)	
	394955.05	3868024.74	3.65267m (12121924)
394978.05	3868015.23	3.95944m (12121924)	
	395001.04	3868005.72	4.27312m (12121924)
395024.03	3867996.22	4.58695m (12121924)	
	395047.03	3867986.71	4.87821m (12121924)
395070.02	3867977.20	5.15546m (12121924)	
	395093.01	3867967.70	5.42315m (12121924)
395116.01	3867958.19	5.66925m (12121924)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 158

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395139.00	3867948.68	5.87745m	(12121924)	
395161.99	3867939.17	6.05554m	(12121924)	
395184.99	3867929.67	6.21051m	(12121924)	
395207.98	3867920.16	6.32999m	(12121924)	
395230.97	3867910.65	6.40783m	(12121924)	
395253.96	3867901.15	6.45215m	(12121924)	
395276.96	3867891.64	6.47049m	(12121924)	
395299.95	3867882.13	6.45522m	(12121924)	
395322.94	3867872.62	6.40881m	(12121924)	
395345.94	3867863.12	6.33670m	(12121924)	
395368.93	3867853.61	6.23300m	(12121924)	
395391.92	3867844.10	6.20752b	(13122724)	
395414.92	3867834.60	6.39430b	(13122724)	
395437.91	3867825.09	6.57609b	(13122724)	
395460.90	3867815.58	6.68997b	(13122724)	
395483.89	3867806.08	6.78688b	(13122724)	
395506.89	3867796.57	6.83905b	(13122724)	
395529.88	3867787.06	6.88518b	(13122724)	
395552.87	3867777.55	6.90430b	(13122724)	
395575.87	3867768.05	6.89903b	(13122724)	
395598.86	3867758.54	6.87130b	(13122724)	
395621.85	3867749.03	6.82312b	(13122724)	
395644.85	3867739.53	6.75601b	(13122724)	
395667.84	3867730.02	6.67069b	(13122724)	
395690.83	3867720.51	6.56764b	(13122724)	
395713.82	3867711.01	6.44674b	(13122724)	
395736.82	3867701.50	6.30775b	(13122724)	
395759.81	3867691.99	6.14988b	(13122724)	
395782.80	3867682.48	5.94388b	(13122724)	
395805.80	3867672.98	5.71041b	(13122724)	
394428.79	3869059.94	1.17844b	(13121724)	
394428.73	3869084.83	1.02255b	(13121724)	

	394428.67	3869109.72	0.89994b (13121724)
394428.61	3869134.61	0.79445b (13121724)	
	394428.54	3869159.50	0.70616b (13121724)
394428.48	3869184.39	0.63469b (13121724)	
	394428.42	3869209.28	0.58048b (13121724)
394428.36	3869234.17	0.56619c (12111424)	
	394428.29	3869259.06	0.57441c (12111424)
394428.23	3869283.95	0.58055c (12111424)	
	394428.17	3869308.84	0.58491c (12111424)
394428.10	3869333.73	0.58794c (12111424)	
	394428.04	3869358.62	0.58998c (12111424)
394427.98	3869383.51	0.58966c (12111424)	
	394427.92	3869408.40	0.58788c (12111424)
394427.85	3869433.29	0.58875b (13121724)	
	394427.79	3869458.18	0.61019b (13121724)
394427.73	3869483.07	0.63125b (13121724)	
	394427.66	3869507.96	0.65129b (13121724)
394427.60	3869532.85	0.66989b (13121724)	
	394427.54	3869557.74	0.68673b (13121724)
394427.48	3869582.63	0.70168b (13121724)	
	394427.41	3869607.53	0.71474b (13121724)
394427.35	3869632.42	0.72604b (13121724)	
	394427.29	3869657.31	0.73581b (13121724)
394427.23	3869682.20	0.74338b (13121724)	
	394427.16	3869707.09	0.74922b (13121724)
394427.10	3869731.98	0.75330b (13121724)	
	394427.04	3869756.87	0.75561b (13121724)
394426.97	3869781.76	0.75605b (13121724)	
	394426.91	3869806.65	0.75424b (13121724)
394426.85	3869831.54	0.75079b (13121724)	
	394426.79	3869856.43	0.74520b (13121724)
394426.72	3869881.32	0.80852b (12120524)	
	394426.66	3869906.21	0.92938b (12120524)
394426.60	3869931.10	1.05048b (12120524)	
	394426.53	3869955.99	1.17021b (12120524)
394038.24	3869036.25	0.43134c (12111424)	
	394047.68	3869013.58	0.41223c (12111424)
394057.12	3868990.90	0.39223c (12111424)	
	394066.57	3868968.23	0.37203b (13121724)
394076.01	3868945.55	0.46314b (13121724)	
	394085.45	3868922.87	0.57655b (13121724)
394094.90	3868900.20	0.69432b (13121724)	
	394104.34	3868877.52	0.82257b (13121724)
394113.78	3868854.85	0.96439b (13121724)	
	394123.23	3868832.17	1.12859b (13121724)
394132.67	3868809.49	1.32141b (13121724)	
	394142.11	3868786.82	1.52714b (13121724)
394151.55	3868764.14	1.73826b (13121724)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 159

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL
*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,
*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)			
394170.44	3868718.79	2.12161b	(13121724)			
394189.33	3868673.44	2.50330b	(13121724)			
394208.21	3868628.09	2.86780b	(13121724)			
394227.10	3868582.73	3.29973b	(13121724)			
394245.98	3868537.38	3.67336b	(13121724)			
394264.87	3868492.03	3.93608b	(13121724)			
394283.76	3868446.68	4.23469b	(13121724)			
394302.64	3868401.33	4.48541b	(13121724)			
394321.53	3868355.97	4.56636b	(13121724)			
394340.41	3868310.62	4.60026b	(13121724)			
394359.30	3868265.27	4.53487b	(13121724)			
394378.19	3868219.92	4.37783b	(13121724)			
394397.07	3868174.57	4.15491b	(13121724)			
394415.96	3868129.21	3.80149b	(13121724)			
394434.84	3868083.86	3.43668b	(13121724)			
394453.73	3868038.51	3.09228b	(13121724)			

394463.17	3868015.83	2.86375b	(13121724)
394472.62	3867993.16	2.63423b	(13121724)
394482.06	3867970.48	2.40757b	(13121724)
394491.50	3867947.81	2.21382b	(13121724)
394500.95	3867925.13	2.02128b	(13121724)
394510.39	3867902.45	1.82883b	(13121724)
394519.83	3867879.78	1.76717b	(13021324)
394529.27	3867857.10	1.88000b	(13021324)
394538.72	3867834.43	1.98813b	(13021324)
394548.16	3867811.75	2.10464b	(13021324)
394580.30	3867779.69	2.34887b	(13021324)
394603.00	3867770.30	2.45888b	(13021324)
394625.70	3867760.92	2.55993b	(13021324)
394648.40	3867751.53	2.67015b	(13021324)
394671.10	3867742.14	2.75631b	(13021324)
394693.80	3867732.76	2.81572b	(13021324)
394716.50	3867723.37	2.85752b	(13021324)
394739.20	3867713.99	2.89621b	(13021324)
394761.90	3867704.60	2.97945m	(12121924)
394784.60	3867695.22	3.24867m	(12121924)
394807.30	3867685.83	3.51649m	(12121924)
394830.00	3867676.44	3.83112m	(12121924)
394852.70	3867667.06	4.23237m	(12121924)
394875.40	3867657.67	4.45439m	(12121924)
394898.10	3867648.29	4.67308m	(12121924)
394920.80	3867638.90	4.86317m	(12121924)
394943.50	3867629.52	5.03332m	(12121924)
394966.20	3867620.13	5.18074m	(12121924)
394988.90	3867610.74	5.30465m	(12121924)
395011.60	3867601.36	5.40426m	(12121924)
395034.30	3867591.97	5.48684m	(12121924)
395057.00	3867582.59	5.54343m	(12121924)
395079.70	3867573.20	5.56674m	(12121924)
395102.40	3867563.81	5.56538m	(12121924)
395125.10	3867554.43	5.54693m	(12121924)
395147.80	3867545.04	5.50344m	(12121924)
395170.50	3867535.66	5.43375m	(12121924)
395193.20	3867526.27	5.34340m	(12121924)
395215.90	3867516.89	5.23431m	(12121924)
395238.60	3867507.50	5.14860b	(13122724)
395261.30	3867498.11	5.35693b	(13122724)
395284.00	3867488.73	5.54520b	(13122724)
395306.70	3867479.34	5.70437b	(13122724)
395329.40	3867469.96	5.83578b	(13122724)
395352.10	3867460.57	5.94138b	(13122724)
395374.79	3867451.19	6.02123b	(13122724)
395397.49	3867441.80	6.07598b	(13122724)
395420.19	3867432.41	6.10830b	(13122724)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 160

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 *** CONC OF ALL IN

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
395442.89	3867423.03	6.11305b (13122724)	
395465.59	3867413.64	6.10006b (13122724)	
395488.29	3867404.26	6.04390b (13122724)	
395510.99	3867394.87	5.98421b (13122724)	
395533.69	3867385.49	5.90041b (13122724)	
395556.39	3867376.10	5.77599b (13122724)	
395579.09	3867366.71	5.67051b (13122724)	
395601.79	3867357.33	5.54439b (13122724)	
395624.49	3867347.94	5.40681b (13122724)	
395647.19	3867338.56	5.25304b (13122724)	
395669.89	3867329.17	5.08335b (13122724)	
395692.59	3867319.78	4.89850b (13122724)	
395715.29	3867310.40	4.69882b (13122724)	
395737.99	3867301.01	4.48530b (13122724)	
395760.69	3867291.63	4.25924b (13122724)	
395783.39	3867282.24	4.02170b (13122724)	
395806.09	3867272.86	3.77522b (13122724)	
394028.80	3869058.93	0.44916c (12111424)	
394028.73	3869083.82	0.46746c (12111424)	
394028.67	3869108.71	0.48430c (12111424)	
394028.61	3869133.60	0.49959c (12111424)	
394028.54	3869158.49	0.51364c (12111424)	
394028.48	3869183.38	0.52617c (12111424)	
394028.42	3869208.27	0.53642c (12111424)	
394028.36	3869233.16	0.54496c (12111424)	
394028.29	3869258.05	0.55171c (12111424)	
394028.23	3869282.94	0.55677c (12111424)	
394028.17	3869307.83	0.56011c (12111424)	
394028.11	3869332.72	0.56181c (12111424)	
394028.04	3869357.61	0.56188c (12111424)	
394027.98	3869382.50	0.56030c (12111424)	
394027.92	3869407.39	0.55708c (12111424)	

	394027.85	3869432.28	0.55284c	(12111424)
394027.79	3869457.17		0.54684c	(12111424)
	394027.73	3869482.06	0.54220b	(13121724)
394027.67	3869506.96		0.56663b	(13121724)
	394027.60	3869531.85	0.58933b	(13121724)
394027.54	3869556.74		0.61019b	(13121724)
	394027.48	3869581.63	0.62914b	(13121724)
394027.41	3869606.52		0.64616b	(13121724)
	394027.35	3869631.41	0.66124b	(13121724)
394027.29	3869656.30		0.67445b	(13121724)
	394027.23	3869681.19	0.68552b	(13121724)
394027.16	3869706.08		0.69471b	(13121724)
	394027.10	3869730.97	0.70199b	(13121724)
394027.04	3869755.86		0.70689b	(13121724)
	394026.98	3869780.75	0.70950b	(13121724)
394026.91	3869805.64		0.71097b	(13121724)
	394026.85	3869830.53	0.71043b	(13121724)
394026.79	3869855.42		0.70790b	(13121724)
	394026.72	3869880.31	0.70332b	(13121724)
394026.66	3869905.20		0.69653b	(13121724)
	394026.60	3869930.09	0.68754b	(13121724)
394026.54	3869954.98		0.67616b	(13121724)
	393638.30	3869035.10	0.43199c	(12111424)
393647.81	3869012.27		0.41559c	(12111424)
	393657.31	3868989.45	0.39828c	(12111424)
393666.82	3868966.62		0.38016c	(12111424)
	393676.32	3868943.80	0.36141c	(12111424)
393685.83	3868920.98		0.34214c	(12111424)
	393695.33	3868898.15	0.32249c	(12111424)
393704.83	3868875.33		0.30267c	(12111424)
	393714.34	3868852.50	0.28281c	(12111424)
393723.84	3868829.68		0.26308c	(12111424)
	393733.35	3868806.85	0.25625b	(13121724)
393742.85	3868784.03		0.31827b	(13121724)
	393752.36	3868761.21	0.39165b	(13121724)
393761.86	3868738.38		0.50150b	(13121724)
	393771.37	3868715.56	0.62092b	(13121724)
393780.87	3868692.73		0.73499b	(13121724)
	393790.38	3868669.91	0.85974b	(13121724)
393799.88	3868647.09		0.99437b	(13121724)
	393809.39	3868624.26	1.13760b	(13121724)
393818.89	3868601.44		1.27676b	(13121724)
	393828.40	3868578.61	1.38578b	(13121724)
393837.90	3868555.79		1.52411b	(13121724)
	393847.41	3868532.96	1.65646b	(13121724)
393856.91	3868510.14		1.81009b	(13121724)
	393866.42	3868487.32	1.96262b	(13121724)
393875.92	3868464.49		2.11200b	(13121724)

PAGE 161

*** MODELOPTS: RegDEFAULT CONC ELEV RURAL
*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,
*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

X-COORD (M)		Y-COORD (M)		CONC	(YymmDdHh)	
COORD (M)	Y-COORD (M)	CONC	(YymmDdHh)			X-
	393885.42	3868441.67	2.25750b	(13121724)		
393894.93	3868418.84	2.39719b	(13121724)			
	393904.43	3868396.02	2.53049b	(13121724)		
393913.94	3868373.19	2.65606b	(13121724)			
	393923.44	3868350.37	2.77330b	(13121724)		
393932.95	3868327.55	2.88143b	(13121724)			
	393942.45	3868304.72	2.97966b	(13121724)		
393951.96	3868281.90	3.06781b	(13121724)			
	393961.46	3868259.07	3.14489b	(13121724)		
393970.97	3868236.25	3.21097b	(13121724)			
	393980.47	3868213.43	3.27094b	(13121724)		
393989.98	3868190.60	3.42078b	(13121724)			
	393999.48	3868167.78	3.53504b	(13121724)		
394008.99	3868144.95	3.55062b	(13121724)			
	394018.49	3868122.13	3.56418b	(13121724)		
394028.00	3868099.30	3.69182b	(13121724)			
	394037.50	3868076.48	3.68815b	(13121724)		
394047.00	3868053.66	3.63530b	(13121724)			
	394056.51	3868030.83	3.56441b	(13121724)		
394066.01	3868008.01	3.51264b	(13121724)			
	394075.52	3867985.18	3.50426b	(13121724)		
394085.02	3867962.36	3.40006b	(13121724)			
	394094.53	3867939.53	3.25844b	(13121724)		
394104.03	3867916.71	3.10366b	(13121724)			
	394113.54	3867893.89	2.93805b	(13121724)		
394123.04	3867871.06	2.82716b	(13121724)			
	394132.55	3867848.24	2.69174b	(13121724)		
394142.05	3867825.41	2.50141b	(13121724)			
	394151.56	3867802.59	2.30909b	(13121724)		
394161.06	3867779.77	2.11794b	(13121724)			
	394170.57	3867756.94	1.92891b	(13121724)		
394180.07	3867734.12	1.74661b	(13121724)			

	394189.58	3867711.29	1.59086b (13121724)
394199.08	3867688.47	1.43913b (13121724)	
	394208.59	3867665.64	1.35812c (12011924)
394218.09	3867642.82	1.29434c (12011924)	
	394227.59	3867620.00	1.30361b (13021324)
394237.10	3867597.17	1.40189b (13021324)	
	394246.60	3867574.35	1.49988b (13021324)
394256.11	3867551.52	1.60119b (13021324)	
	394265.61	3867528.70	1.72152b (13021324)
394297.97	3867496.43	1.92430b (13021324)	
	394320.81	3867486.98	2.02834b (13021324)
394343.66	3867477.53	2.12530b (13021324)	
	394366.51	3867468.09	2.21496b (13021324)
394389.36	3867458.64	2.30331b (13021324)	
	394412.21	3867449.19	2.39384b (13021324)
394435.05	3867439.74	2.45351b (13021324)	
	394457.90	3867430.30	2.49556b (13021324)
394480.75	3867420.85	2.52340b (13021324)	
	394503.60	3867411.40	2.55450b (13021324)
394526.45	3867401.96	2.55451b (13021324)	
	394549.30	3867392.51	2.53811b (13021324)
394572.14	3867383.06	2.69850m (12121924)	
	394594.99	3867373.61	2.94944m (12121924)
394617.84	3867364.17	3.18206m (12121924)	
	394640.69	3867354.72	3.40932m (12121924)
394663.54	3867345.27	3.63830m (12121924)	
	394686.38	3867335.83	3.89709m (12121924)
394709.23	3867326.38	4.09568m (12121924)	
	394732.08	3867316.93	4.27049m (12121924)
394754.93	3867307.48	4.43546m (12121924)	
	394777.78	3867298.04	4.55429m (12121924)
394800.62	3867288.59	4.65658m (12121924)	
	394823.47	3867279.14	4.73828m (12121924)
394846.32	3867269.70	4.80334m (12121924)	
	394869.17	3867260.25	4.85518m (12121924)
394892.02	3867250.80	4.87507m (12121924)	
	394914.87	3867241.36	4.87410m (12121924)
394937.71	3867231.91	4.85295m (12121924)	
	394960.56	3867222.46	4.81223m (12121924)
394983.41	3867213.01	4.75269m (12121924)	
	395006.26	3867203.57	4.68205m (12121924)
395029.11	3867194.12	4.59215m (12121924)	
	395051.95	3867184.67	4.48208m (12121924)
395074.80	3867175.23	4.35725m (12121924)	
	395097.65	3867165.78	4.44484b (13122724)
395120.50	3867156.33	4.62732b (13122724)	
	395143.35	3867146.88	4.79319b (13122724)
395166.19	3867137.44	4.94470b (13122724)	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 162

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
395189.04	3867127.99	5.07119b	(13122724)	
395211.89	3867118.54	5.17591b	(13122724)	
395234.74	3867109.10	5.25944b	(13122724)	
395257.59	3867099.65	5.32207b	(13122724)	
395280.44	3867090.20	5.36383b	(13122724)	
395303.28	3867080.75	5.38510b	(13122724)	
395326.13	3867071.31	5.38642b	(13122724)	
395348.98	3867061.86	5.36855b	(13122724)	
395371.83	3867052.41	5.33212b	(13122724)	
395394.68	3867042.97	5.28063b	(13122724)	
395417.52	3867033.52	5.21084b	(13122724)	
395440.37	3867024.07	5.12252b	(13122724)	
395463.22	3867014.62	5.01812b	(13122724)	
395486.07	3867005.18	4.89843b	(13122724)	
395508.92	3866995.73	4.76420b	(13122724)	
395531.76	3866986.28	4.61572b	(13122724)	
395554.61	3866976.84	4.45474b	(13122724)	
395577.46	3866967.39	4.27790b	(13122724)	
395600.31	3866957.94	4.09233b	(13122724)	
395623.16	3866948.49	3.89664b	(13122724)	
395646.01	3866939.05	3.69209b	(13122724)	
395668.85	3866929.60	3.47884b	(13122724)	
395691.70	3866920.15	3.25631b	(13122724)	
395714.55	3866910.71	3.02556b	(13122724)	
395737.40	3866901.26	2.80384b	(13122724)	
395760.25	3866891.81	2.58223b	(13122724)	
395783.09	3866882.36	2.36299b	(13122724)	
395805.94	3866872.92	2.14789b	(13122724)	
393628.80	3869057.92	0.44731c	(12111424)	
393628.73	3869082.81	0.46283c	(12111424)	
393628.67	3869107.70	0.47710c	(12111424)	
393628.61	3869132.59	0.49002c	(12111424)	

	393628.55	3869157.48	0.50148c (12111424)
393628.48	3869182.37	0.51141c (12111424)	
	393628.42	3869207.26	0.51970c (12111424)
393628.36	3869232.15	0.52640c (12111424)	
	393628.29	3869257.04	0.53147c (12111424)
393628.23	3869281.93	0.53493c (12111424)	
	393628.17	3869306.82	0.53676c (12111424)
393628.11	3869331.71	0.53691c (12111424)	
	393628.04	3869356.60	0.53545c (12111424)
393627.98	3869381.49	0.53236c (12111424)	
	393627.92	3869406.39	0.52702c (12111424)
393627.86	3869431.28	0.52045c (12111424)	
	393627.79	3869456.17	0.51256c (12111424)
393627.73	3869481.06	0.50315c (12111424)	
	393627.67	3869505.95	0.49390b (13121724)
393627.60	3869530.84	0.51785b (13121724)	
	393627.54	3869555.73	0.53981b (13121724)
393627.48	3869580.62	0.56045b (13121724)	
	393627.42	3869605.51	0.57977b (13121724)
393627.35	3869630.40	0.59763b (13121724)	
	393627.29	3869655.29	0.61450b (13121724)
393627.23	3869680.18	0.62879b (13121724)	
	393627.16	3869705.07	0.64055b (13121724)
393627.10	3869729.96	0.65103b (13121724)	
	393627.04	3869754.85	0.65974b (13121724)
393626.98	3869779.74	0.66550b (13121724)	
	393626.91	3869804.63	0.66868b (13121724)
393626.85	3869829.52	0.67045b (13121724)	
	393626.79	3869854.41	0.66998b (13121724)
393626.73	3869879.30	0.66704b (13121724)	
	393626.66	3869904.19	0.66161b (13121724)
393626.60	3869929.08	0.65426b (13121724)	
	393626.54	3869953.97	0.64625b (13121724)
393238.35	3869033.98	0.42922c (12111424)	
	393247.89	3869011.06	0.41512c (12111424)
393257.44	3868988.13	0.40043c (12111424)	
	393266.99	3868965.20	0.38492c (12111424)
393276.54	3868942.27	0.36872c (12111424)	
	393286.09	3868919.34	0.35182c (12111424)
393295.63	3868896.42	0.33441c (12111424)	
	393305.18	3868873.49	0.31664c (12111424)
393314.73	3868850.56	0.29879c (12111424)	
	393324.28	3868827.63	0.28093c (12111424)
393333.83	3868804.70	0.26295c (12111424)	
	393343.37	3868781.78	0.24492c (12111424)
393352.92	3868758.85	0.22758c (12111424)	
	393362.47	3868735.92	0.21691c (10012024)
393372.02	3868712.99	0.22417c (10012024)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 163

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

X-COORD (M)		Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)		
	393381.57	3868690.06	0.23082c	(10012024)	
393391.11	3868667.14	0.23689c	(10012024)		
	393400.66	3868644.21	0.24229c	(10012024)	
393410.21	3868621.28	0.24699c	(10012024)		
	393419.76	3868598.35	0.25156b	(13121724)	
393429.30	3868575.43	0.30971b	(13121724)		
	393438.85	3868552.50	0.38724b	(13121724)	
393448.40	3868529.57	0.47729b	(13121724)		
	393457.95	3868506.64	0.57986b	(13121724)	
393467.50	3868483.71	0.68028b	(13121724)		
	393477.04	3868460.79	0.78617b	(13121724)	
393486.59	3868437.86	0.89499b	(13121724)		
	393496.14	3868414.93	1.01760b	(13121724)	
393505.69	3868392.00	1.14094b	(13121724)		
	393515.24	3868369.07	1.26761b	(13121724)	
393524.78	3868346.15	1.40208b	(13121724)		
	393534.33	3868323.22	1.52578b	(13121724)	
393543.88	3868300.29	1.65477b	(13121724)		
	393553.43	3868277.36	1.79686b	(13121724)	
393562.98	3868254.43	2.00871b	(13121724)		
	393572.52	3868231.51	2.15427b	(13121724)	
393582.07	3868208.58	2.27524b	(13121724)		
	393591.62	3868185.65	2.38969b	(13121724)	
393601.17	3868162.72	2.49701b	(13121724)		
	393610.72	3868139.79	2.60223b	(13121724)	
393620.26	3868116.87	2.74220b	(13121724)		
	393629.81	3868093.94	2.87498b	(13121724)	
393639.36	3868071.01	2.99942b	(13121724)		
	393648.91	3868048.08	2.99942b	(13121724)	
393658.45	3868025.15	3.05587b	(13121724)		
	393668.00	3868002.23	3.15018b	(13121724)	
393677.55	3867979.30	3.18440b	(13121724)		

393687.10	3867956.37	3.19866b	(13121724)
393696.65	3867933.44	3.19901b	(13121724)
393706.19	3867910.51	3.19136b	(13121724)
393715.74	3867887.59	3.23618b	(13121724)
393725.29	3867864.66	3.24649b	(13121724)
393734.84	3867841.73	3.20616b	(13121724)
393744.39	3867818.80	3.12944b	(13121724)
393753.93	3867795.87	3.03830b	(13121724)
393763.48	3867772.95	2.93368b	(13121724)
393773.03	3867750.02	2.81634b	(13121724)
393782.58	3867727.09	2.68828b	(13121724)
393792.13	3867704.16	2.55084b	(13121724)
393801.67	3867681.23	2.44307b	(13121724)
393811.22	3867658.31	2.33230b	(13121724)
393820.77	3867635.38	2.19957b	(13121724)
393830.32	3867612.45	2.03732b	(13121724)
393839.87	3867589.52	1.87506b	(13121724)
393849.41	3867566.59	1.71428b	(13121724)
393858.96	3867543.67	1.55704b	(13121724)
393868.51	3867520.74	1.40445b	(13121724)
393878.06	3867497.81	1.32475c	(12011924)
393887.61	3867474.88	1.29410c	(12011924)
393897.15	3867451.95	1.25647c	(12011924)
393906.70	3867429.03	1.21050c	(12011924)
393916.25	3867406.10	1.15419c	(12011924)
393925.80	3867383.17	1.09255c	(12011924)
393935.34	3867360.24	1.02875c	(12011924)
393944.89	3867337.32	1.02397b	(13021324)
393954.44	3867314.39	1.11116b	(13021324)
393963.99	3867291.46	1.19863b	(13021324)
393973.54	3867268.53	1.29004b	(13021324)
393983.08	3867245.60	1.38631b	(13021324)
394015.58	3867213.19	1.58593b	(13021324)
394038.54	3867203.70	1.68063b	(13021324)
394061.49	3867194.21	1.77420b	(13021324)
394084.44	3867184.72	1.88530b	(13021324)
394107.39	3867175.23	1.97167b	(13021324)
394130.34	3867165.73	2.04531b	(13021324)
394153.30	3867156.24	2.11247b	(13021324)
394176.25	3867146.75	2.17315b	(13021324)
394199.20	3867137.26	2.20680b	(13021324)
394222.15	3867127.77	2.24307b	(13021324)
394245.10	3867118.28	2.26469b	(13021324)
394268.06	3867108.79	2.27819b	(13021324)
394291.01	3867099.30	2.26767b	(13021324)
394313.96	3867089.81	2.24342b	(13021324)
394336.91	3867080.32	2.21382b	(13021324)
394359.86	3867070.83	2.22711m	(12121924)


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 164

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL		IN
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
394382.82	3867061.34	2.43154m	(12121924)	
394405.77	3867051.85	2.63594m	(12121924)	
394428.72	3867042.36	2.83944m	(12121924)	
394451.67	3867032.87	3.06952m	(12121924)	
394474.62	3867023.38	3.29701m	(12121924)	
394497.58	3867013.89	3.47896m	(12121924)	
394520.53	3867004.40	3.64438m	(12121924)	
394543.48	3866994.91	3.80402m	(12121924)	
394566.43	3866985.42	3.98947m	(12121924)	
394589.38	3866975.93	4.10929m	(12121924)	
394612.34	3866966.44	4.20276m	(12121924)	
394635.29	3866956.95	4.28671m	(12121924)	
394658.24	3866947.46	4.36545m	(12121924)	
394681.19	3866937.97	4.40330m	(12121924)	
394704.14	3866928.48	4.42123m	(12121924)	
394727.10	3866918.99	4.41225m	(12121924)	
394750.05	3866909.50	4.38471m	(12121924)	
394773.00	3866900.01	4.34328m	(12121924)	
394795.95	3866890.52	4.29621m	(12121924)	
394818.90	3866881.03	4.14670m	(12121924)	
394841.86	3866871.54	4.06479m	(12121924)	
394864.81	3866862.05	3.96923m	(12121924)	
394887.76	3866852.56	3.86466m	(12121924)	
394910.71	3866843.07	3.74618m	(12121924)	
394933.66	3866833.58	3.72852b	(13122724)	
394956.62	3866824.09	3.90089b	(13122724)	
394979.57	3866814.60	4.06120b	(13122724)	
395002.52	3866805.11	4.20791b	(13122724)	
395025.47	3866795.62	4.33979b	(13122724)	
395048.42	3866786.13	4.45580b	(13122724)	
395071.37	3866776.64	4.55515b	(13122724)	
395094.33	3866767.15	4.63714b	(13122724)	

395117.28	3866757.66	4.70156b	(13122724)
395140.23	3866748.17	4.74839b	(13122724)
395163.18	3866738.68	4.78275b	(13122724)
395186.13	3866729.19	4.79501b	(13122724)
395209.09	3866719.70	4.79063b	(13122724)
395232.04	3866710.21	4.76725b	(13122724)
395254.99	3866700.72	4.72739b	(13122724)
395277.94	3866691.23	4.67147b	(13122724)
395300.89	3866681.74	4.60016b	(13122724)
395323.85	3866672.25	4.51505b	(13122724)
395346.80	3866662.76	4.41916b	(13122724)
395369.75	3866653.27	4.30580b	(13122724)
395392.70	3866643.78	4.17939b	(13122724)
395415.65	3866634.29	4.04120b	(13122724)
395438.61	3866624.80	3.89210b	(13122724)
395461.56	3866615.31	3.73331b	(13122724)
395484.51	3866605.82	3.56738b	(13122724)
395507.46	3866596.33	3.39349b	(13122724)
395530.41	3866586.84	3.21231b	(13122724)
395553.37	3866577.35	3.02643b	(13122724)
395576.32	3866567.86	2.83715b	(13122724)
395599.27	3866558.37	2.64627b	(13122724)
395622.22	3866548.88	2.45517b	(13122724)
395645.17	3866539.39	2.26592b	(13122724)
395668.13	3866529.90	2.07852b	(13122724)
395691.08	3866520.41	1.89545b	(13122724)
395714.03	3866510.92	1.71864b	(13122724)
395736.98	3866501.43	1.54877b	(13122724)
395759.93	3866491.94	1.48132b	(09011224)
395782.89	3866482.45	1.48687b	(13121124)
395805.84	3866472.96	1.57801b	(13121124)
393228.80	3869056.91	0.44228c	(12111424)
393228.74	3869081.80	0.45525c	(12111424)
393228.67	3869106.69	0.46702c	(12111424)
393228.61	3869131.58	0.47754c	(12111424)
393228.55	3869156.47	0.48692c	(12111424)
393228.48	3869181.36	0.49499c	(12111424)
393228.42	3869206.25	0.50120c	(12111424)
393228.36	3869231.14	0.50594c	(12111424)
393228.30	3869256.03	0.50920c	(12111424)
393228.23	3869280.92	0.51093c	(12111424)
393228.17	3869305.82	0.51110c	(12111424)
393228.11	3869330.71	0.50970c	(12111424)
393228.04	3869355.60	0.50677c	(12111424)
393227.98	3869380.49	0.50234c	(12111424)
393227.92	3869405.38	0.49641c	(12111424)
393227.86	3869430.27	0.48900c	(12111424)
393227.79	3869455.16	0.48004c	(12111424)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 165

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
393227.73	3869480.05	0.46952c	(12111424)	
393227.67	3869504.94	0.45788c	(12111424)	
393227.61	3869529.83	0.45395b	(13121724)	
393227.54	3869554.72	0.47571b	(13121724)	
393227.48	3869579.61	0.49652b	(13121724)	
393227.42	3869604.50	0.51611b	(13121724)	
393227.35	3869629.39	0.53396b	(13121724)	
393227.29	3869654.28	0.54964b	(13121724)	
393227.23	3869679.17	0.56474b	(13121724)	
393227.17	3869704.06	0.57846b	(13121724)	
393227.10	3869728.95	0.59035b	(13121724)	
393227.04	3869753.84	0.60055b	(13121724)	
393226.98	3869778.73	0.60932b	(13121724)	
393226.91	3869803.62	0.61646b	(13121724)	
393226.85	3869828.51	0.62117b	(13121724)	
393226.79	3869853.40	0.62390b	(13121724)	
393226.73	3869878.29	0.62460b	(13121724)	
393226.66	3869903.18	0.62359b	(13121724)	
393226.60	3869928.07	0.62043b	(13121724)	
393226.54	3869952.96	0.61503b	(13121724)	
395826.53	3869984.52	6.15282c	(13011524)	
395851.47	3869984.52	6.30106c	(13011524)	
395876.42	3869984.52	6.55992b	(13020524)	
395901.36	3869984.52	8.00364b	(13020524)	
395926.31	3869984.52	9.09944b	(13020524)	
395951.25	3869984.53	9.87227b	(13020524)	
395976.20	3869984.53	10.54460b	(13020524)	
396001.14	3869984.53	11.04708b	(13020524)	
396026.09	3869984.53	11.41816b	(13020524)	
396051.03	3869984.53	11.68568b	(13020524)	
396075.98	3869984.53	11.87355b	(13020524)	
396100.92	3869984.53	11.99658b	(13020524)	

	396125.87	3869984.53	12.01501b (13020524)
396150.81	3869984.53	12.06753b (13020524)	
	396175.75	3869984.54	12.11095b (13020524)
396200.70	3869984.54	12.14057b (13020524)	
	396225.64	3869984.54	12.16121b (13020524)
396250.59	3869984.54	12.17439b (13020524)	
	396275.53	3869984.54	12.16911b (13020524)
396300.48	3869984.54	12.09456b (13020524)	
	396325.42	3869984.54	12.10287b (13020524)
396350.37	3869984.54	12.10987b (13020524)	
	396375.31	3869984.54	12.11517b (13020524)
396400.26	3869984.55	12.11998b (13020524)	
	396425.20	3869984.55	12.12357b (13020524)
396450.15	3869984.55	12.14822b (13120224)	
	396475.09	3869984.55	12.23175b (13120224)
396500.04	3869984.55	12.10969b (13120224)	
	396524.98	3869984.55	11.84932b (13120224)
396549.93	3869984.55	11.91657b (13020124)	
	396574.87	3869984.55	12.02340b (13020124)
396599.82	3869984.55	12.10259b (13020124)	
	396624.76	3869984.56	11.92843b (13020124)
396649.70	3869984.56	11.77455b (13020124)	
	396674.65	3869984.56	11.82389b (13020124)
396699.59	3869984.56	11.86365b (13020124)	
	396724.54	3869984.56	11.87151b (13020124)
395808.83	3870002.17	5.74220c (13011524)	
	395851.47	3870009.52	6.20321c (13011524)
395876.42	3870009.52	6.22249c (13011524)	
	395901.36	3870009.52	7.59015b (13020524)
395926.31	3870009.52	8.70783b (13020524)	
	395951.25	3870009.53	9.55944b (13020524)
395976.20	3870009.53	10.24164b (13020524)	
	396001.14	3870009.53	10.75775b (13020524)
396026.09	3870009.53	11.14040b (13020524)	
	396051.03	3870009.53	11.41965b (13020524)
396075.97	3870009.53	11.61867b (13020524)	
	396100.92	3870009.53	11.75806b (13020524)
396125.86	3870009.53	11.85008b (13020524)	
	396150.81	3870009.53	11.89779b (13020524)
396175.75	3870009.54	11.93769b (13020524)	
	396200.70	3870009.54	11.96886b (13020524)
396225.64	3870009.54	11.98896b (13020524)	
	396250.59	3870009.54	12.00471b (13020524)
396275.53	3870009.54	12.01433b (13020524)	
	396300.48	3870009.54	12.01849b (13020524)
396325.42	3870009.54	11.94908b (13020524)	
	396350.37	3870009.54	11.95540b (13020524)
396375.31	3870009.54	11.96078b (13020524)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 166

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

X-COORD (M)		Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)		
396400.26	3870009.55	11.96517b	(13020524)		
396425.20	3870009.55	11.96834b	(13020524)		
396450.15	3870009.55	11.96939b	(13020524)		
396475.09	3870009.55	11.96934b	(13020524)		
396500.04	3870009.55	12.03674b	(13020124)		
396524.98	3870009.55	12.04912b	(13020124)		
396549.92	3870009.55	11.83866b	(13020124)		
396574.87	3870009.55	11.95819b	(13020124)		
396599.81	3870009.55	12.05957b	(13020124)		
396624.76	3870009.56	12.09404b	(13020124)		
396649.70	3870009.56	11.98427b	(13020124)		
396674.65	3870009.56	11.86428b	(13020124)		
396699.59	3870009.56	12.22140b	(13020124)		
396724.54	3870009.56	12.24930b	(13020124)		
395808.83	3870027.17	5.72551c	(13011524)		
395766.13	3869994.77	5.89484b	(12120524)		
395851.47	3870034.52	6.06728c	(13011524)		
395876.42	3870034.52	6.08660c	(13011524)		
395901.36	3870034.52	7.20724b	(13020524)		
395926.31	3870034.52	8.33619b	(13020524)		
395951.25	3870034.53	9.23166b	(13020524)		
395976.19	3870034.53	9.93348b	(13020524)		
396001.14	3870034.53	10.46202b	(13020524)		
396026.08	3870034.53	10.85616b	(13020524)		
396051.03	3870034.53	11.14609b	(13020524)		
396075.97	3870034.53	11.35478b	(13020524)		
396100.92	3870034.53	11.50249b	(13020524)		
396125.86	3870034.53	11.60526b	(13020524)		
396150.81	3870034.53	11.68991b	(13020524)		
396175.75	3870034.54	11.74201b	(13020524)		
396200.70	3870034.54	11.77558b	(13020524)		
396225.64	3870034.54	11.79908b	(13020524)		

396250.59	3870034.54	11.81573b	(13020524)
396275.53	3870034.54	11.82864b	(13020524)
396300.48	3870034.54	11.84122b	(13020524)
396325.42	3870034.54	11.85090b	(13020524)
396350.37	3870034.54	11.78975b	(13020524)
396375.31	3870034.54	11.79522b	(13020524)
396400.26	3870034.55	11.79957b	(13020524)
396425.20	3870034.55	11.80316b	(13020524)
396450.14	3870034.55	11.80528b	(13020524)
396475.09	3870034.55	11.80618b	(13020524)
396500.03	3870034.55	11.80553b	(13020524)
396524.98	3870034.55	11.89014b	(13020124)
396549.92	3870034.55	11.90089b	(13020124)
396574.87	3870034.55	11.78108b	(13020124)
396599.81	3870034.55	11.84735b	(13020124)
396624.76	3870034.56	11.94375b	(13020124)
396649.70	3870034.56	11.96880b	(13020124)
396674.65	3870034.56	11.95299b	(13020124)
396699.59	3870034.56	12.14878b	(13020124)
396724.54	3870034.56	12.19030b	(13020124)
395808.83	3870052.17	5.64936c	(13011524)
395773.43	3870037.48	4.93406b	(12120524)
395748.43	3870012.42	5.54306b	(12120524)
395851.47	3870059.52	5.91637c	(13011524)
395876.41	3870059.52	5.93539c	(13011524)
395901.36	3870059.52	6.82486b	(13020524)
395926.30	3870059.52	7.95934b	(13020524)
395951.25	3870059.53	8.85373b	(13020524)
395976.19	3870059.53	9.58246b	(13020524)
396001.14	3870059.53	10.14244b	(13020524)
396026.08	3870059.53	10.55476b	(13020524)
396051.03	3870059.53	10.85478b	(13020524)
396075.97	3870059.53	11.07240b	(13020524)
396100.92	3870059.53	11.22785b	(13020524)
396125.86	3870059.53	11.33679b	(13020524)
396150.81	3870059.53	11.43152b	(13020524)
396175.75	3870059.54	11.50016b	(13020524)
396200.70	3870059.54	11.54166b	(13020524)
396225.64	3870059.54	11.56651b	(13020524)
396250.59	3870059.54	11.58416b	(13020524)
396275.53	3870059.54	11.59722b	(13020524)
396300.48	3870059.54	11.60717b	(13020524)
396325.42	3870059.54	11.62103b	(13020524)
396350.36	3870059.54	11.63156b	(13020524)
396375.31	3870059.54	11.57770b	(13020524)
396400.25	3870059.55	11.58174b	(13020524)
396425.20	3870059.55	11.58514b	(13020524)
396450.14	3870059.55	11.58737b	(13020524)

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 167

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF ALL IN
**

MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
396475.09	3870059.55	11.58828b (13020524)	
396500.03	3870059.55	11.58754b (13020524)	
396524.98	3870059.55	11.58436b (13020524)	
396549.92	3870059.55	11.68634b (13020124)	
396574.87	3870059.55	11.65219b (13020124)	
396599.81	3870059.55	11.74495b (13020124)	
396624.76	3870059.56	11.85322b (13020124)	
396649.70	3870059.56	11.94550b (13020124)	
396674.65	3870059.56	11.98956b (13020124)	
396699.59	3870059.56	11.88834b (13020124)	
396724.54	3870059.56	11.94044b (13020124)	
395805.28	3870100.71	5.36496c (13011524)	
395784.05	3870091.89	5.07295c (13011524)	
395762.81	3870083.08	4.63287b (10011124)	
395741.57	3870074.26	4.61485b (10011124)	
395711.57	3870044.19	4.99375b (12120524)	
395702.81	3870022.93	5.33193b (12120524)	
395694.05	3870001.66	5.50023b (12120524)	
395685.29	3869980.40	5.51956b (12120524)	
395826.52	3870109.52	5.47997c (13011524)	
395851.47	3870109.52	5.59002c (13011524)	
395876.41	3870109.52	5.62549c (13011524)	
395901.36	3870109.52	6.07393b (13020524)	
395926.30	3870109.52	7.21868b (13020524)	
395951.25	3870109.53	8.13613b (13020524)	
395976.19	3870109.53	8.85702b (13020524)	
396001.14	3870109.53	9.41572b (13020524)	
396026.08	3870109.53	9.89800b (13020524)	
396051.03	3870109.53	10.25619b (13020524)	
396075.97	3870109.53	10.49288b (13020524)	
396100.92	3870109.53	10.66375b (13020524)	
396125.86	3870109.53	10.78477b (13020524)	

	396150.80	3870109.53	10.86910b (13020524)
396175.75	3870109.54	10.92711b (13020524)	
	396200.69	3870109.54	10.99360b (13020524)
396225.64	3870109.54	11.04831b (13020524)	
	396250.58	3870109.54	11.07099b (13020524)
396275.53	3870109.54	11.08425b (13020524)	
	396300.47	3870109.54	11.09394b (13020524)
396325.42	3870109.54	11.10125b (13020524)	
	396350.36	3870109.54	11.10698b (13020524)
396375.31	3870109.54	11.11677b (13020524)	
	396400.25	3870109.55	11.12962b (13020524)
396425.20	3870109.55	11.09408b (13020524)	
	396450.14	3870109.55	11.08826b (13020524)
396475.09	3870109.55	11.08912b (13020524)	
	396500.03	3870109.55	11.08839b (13020524)
396524.98	3870109.55	11.08552b (13020524)	
	396549.92	3870109.55	11.07882b (13020524)
396574.86	3870109.55	11.06528b (13020524)	
	396599.81	3870109.55	11.15412b (13020124)
396624.75	3870109.56	11.28640b (13020124)	
	396649.70	3870109.56	11.40145b (13020124)
396674.64	3870109.56	11.50018b (13020124)	
	396699.59	3870109.56	11.58430b (13020124)
396724.53	3870109.56	11.65519b (13020124)	
	395806.29	3870151.13	5.16144c (13011524)
395765.84	3870134.34	4.71108c (13011524)	
	395725.38	3870117.55	4.38849b (10011124)
395676.58	3870080.51	4.45642b (12120524)	
	395659.90	3870040.01	5.06149b (12120524)
395643.22	3869999.51	5.23615b (12120524)	
	395851.47	3870159.52	5.27161c (13011524)
395876.41	3870159.52	5.31988c (13011524)	
	395901.36	3870159.52	5.38839b (13020524)
395926.30	3870159.52	6.51019b (13020524)	
	395951.24	3870159.53	7.44455b (13020524)
395976.19	3870159.53	8.19308b (13020524)	
	396001.13	3870159.53	8.78093b (13020524)
396026.08	3870159.53	9.24611b (13020524)	
	396051.02	3870159.53	9.62984b (13020524)
396075.97	3870159.53	9.92749b (13020524)	
	396100.91	3870159.53	10.11596b (13020524)
396125.86	3870159.53	10.25103b (13020524)	
	396150.80	3870159.53	10.34585b (13020524)
396175.75	3870159.54	10.41132b (13020524)	
	396200.69	3870159.54	10.46196b (13020524)
396225.64	3870159.54	10.49507b (13020524)	
	396250.58	3870159.54	10.52752b (13020524)
396275.53	3870159.54	10.57366b (13020524)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 168

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396300.47	3870159.54	10.58701b	(13020524)	
396325.42	3870159.54	10.59371b	(13020524)	
396350.36	3870159.54	10.59859b	(13020524)	
396375.30	3870159.54	10.60235b	(13020524)	
396400.25	3870159.55	10.60541b	(13020524)	
396425.19	3870159.55	10.61222b	(13020524)	
396450.14	3870159.55	10.61447b	(13020524)	
396475.08	3870159.55	10.62226b	(13020524)	
396500.03	3870159.55	10.58614b	(13020524)	
396524.97	3870159.55	10.58362b	(13020524)	
396549.92	3870159.55	10.57742b	(13020524)	
396574.86	3870159.55	10.56421b	(13020524)	
396599.81	3870159.55	10.53651b	(13020524)	
396624.75	3870159.56	10.49084b	(13020124)	
396649.70	3870159.56	10.62815b	(13020124)	
396674.64	3870159.56	10.74841b	(13020124)	
396699.59	3870159.56	10.85283b	(13020124)	
396724.53	3870159.56	10.94310b	(13020124)	
395804.39	3870200.34	4.94658c	(13011524)	
395782.27	3870191.16	4.82175c	(13011524)	
395760.15	3870181.98	4.58225c	(13011524)	
395738.02	3870172.79	4.22753c	(13011524)	
395715.90	3870163.61	4.15812b	(10011124)	
395693.77	3870154.43	4.14591b	(10011124)	
395671.65	3870145.25	4.05900b	(10011124)	
395640.40	3870113.92	4.02402b	(12120524)	
395631.28	3870091.77	4.38405b	(12120524)	
395622.15	3870069.63	4.69592b	(12120524)	
395613.03	3870047.48	4.89226b	(12120524)	
395603.90	3870025.33	4.97589b	(12120524)	
395594.78	3870003.18	4.97902b	(12120524)	
395585.66	3869981.04	4.94543b	(12120524)	

395826.52	3870209.52	4.98677c	(13011524)
395851.46	3870209.52	5.02399c	(13011524)
395876.41	3870209.52	5.03645c	(13011524)
395901.35	3870209.52	5.06090c	(13011524)
395926.30	3870209.52	5.86083b	(13020524)
395951.24	3870209.53	6.79151b	(13020524)
395976.19	3870209.53	7.56015b	(13020524)
396001.13	3870209.53	8.17546b	(13020524)
396026.08	3870209.53	8.65712b	(13020524)
396051.02	3870209.53	9.04638b	(13020524)
396075.97	3870209.53	9.36339b	(13020524)
396100.91	3870209.53	9.59848b	(13020524)
396125.86	3870209.53	9.75010b	(13020524)
396150.80	3870209.53	9.85775b	(13020524)
396175.74	3870209.54	9.93260b	(13020524)
396200.69	3870209.54	9.98400b	(13020524)
396225.63	3870209.54	10.02393b	(13020524)
396250.58	3870209.54	10.04679b	(13020524)
396275.52	3870209.54	10.06181b	(13020524)
396300.47	3870209.54	10.09266b	(13020524)
396325.41	3870209.54	10.11721b	(13020524)
396350.36	3870209.54	10.12896b	(13020524)
396375.30	3870209.54	10.13199b	(13020524)
396400.25	3870209.55	10.13408b	(13020524)
396425.19	3870209.55	10.13562b	(13020524)
396450.14	3870209.55	10.13649b	(13020524)
396475.08	3870209.55	10.13684b	(13020524)
396500.03	3870209.55	10.14127b	(13020524)
396524.97	3870209.55	10.14568b	(13020524)
396549.92	3870209.55	10.11038b	(13020524)
396574.86	3870209.55	10.09670b	(13020524)
396599.81	3870209.55	10.06816b	(13020524)
396624.75	3870209.56	10.00921b	(13020524)
396649.69	3870209.56	9.89217b	(13020524)
396674.64	3870209.56	10.02401b	(13020124)
396699.58	3870209.56	10.14927b	(13020124)
396724.53	3870209.56	10.25885b	(13020124)
395805.06	3870283.95	4.63038c	(13011524)
395783.61	3870275.05	4.57466c	(13011524)
395762.15	3870266.14	4.44398c	(13011524)
395740.70	3870257.24	4.21270c	(13011524)
395719.25	3870248.34	3.93482c	(13011524)
395697.79	3870239.43	3.76253b	(10011124)
395676.34	3870230.53	3.81112b	(10011124)
395654.89	3870221.63	3.82758b	(10011124)
395633.43	3870212.73	3.79657b	(10011124)
395611.98	3870203.82	3.71143b	(10011124)
395581.68	3870173.44	3.48024b	(10011124)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 169

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

 ** CONC OF ALL IN
 **

MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
395572.83	3870151.97	3.68684b	(12120524)	
395563.98	3870130.49	3.98391b	(12120524)	
395555.13	3870109.01	4.24084b	(12120524)	
395546.29	3870087.54	4.43190b	(12120524)	
395537.44	3870066.06	4.55679b	(12120524)	
395528.59	3870044.58	4.62398b	(12120524)	
395519.74	3870023.11	4.61999b	(12120524)	
395510.89	3870001.63	4.59660b	(12120524)	
395502.05	3869980.16	4.56152b	(12120524)	
395826.52	3870292.85	4.64263c	(13011524)	
395851.46	3870292.85	4.66659c	(13011524)	
395876.40	3870292.86	4.67563c	(13011524)	
395901.35	3870292.86	4.67838c	(13011524)	
395926.29	3870292.86	4.88760b	(13020524)	
395951.24	3870292.86	5.80639b	(13020524)	
395976.18	3870292.86	6.59142b	(13020524)	
396001.13	3870292.86	7.23909b	(13020524)	
396026.07	3870292.86	7.76194b	(13020524)	
396051.02	3870292.86	8.17500b	(13020524)	
396075.96	3870292.86	8.49464b	(13020524)	
396100.91	3870292.87	8.74063b	(13020524)	
396125.85	3870292.87	8.96686b	(13020524)	
396150.80	3870292.87	9.11590b	(13020524)	
396175.74	3870292.87	9.21497b	(13020524)	
396200.69	3870292.87	9.28163b	(13020524)	
396225.63	3870292.87	9.32695b	(13020524)	
396250.58	3870292.87	9.36147b	(13020524)	
396275.52	3870292.87	9.38123b	(13020524)	
396300.46	3870292.87	9.39379b	(13020524)	
396325.41	3870292.88	9.40143b	(13020524)	
396350.35	3870292.88	9.40610b	(13020524)	
396375.30	3870292.88	9.41625b	(13020524)	

	396400.24	3870292.88	9.44187b (13020524)
396425.19	3870292.88	9.44841b (13020524)	
	396450.13	3870292.88	9.44969b (13020524)
396475.08	3870292.88	9.44943b (13020524)	
	396500.02	3870292.88	9.44825b (13020524)
396524.97	3870292.88	9.44506b (13020524)	
	396549.91	3870292.89	9.43773b (13020524)
396574.86	3870292.89	9.42210b (13020524)	
	396599.80	3870292.89	9.39059b (13020524)
396624.75	3870292.89	9.32857b (13020524)	
	396649.69	3870292.89	9.21143b (13020524)
396674.64	3870292.89	9.00203b (13020524)	
	396699.58	3870292.89	9.04853b (13020124)
396724.53	3870292.89	9.19148b (13020124)	
	395803.82	3870366.77	4.34881c (13011524)
395781.13	3870357.35	4.31817c (13011524)	
	395758.44	3870347.94	4.22843c (13011524)
395735.75	3870338.52	4.06683c (13011524)	
	395713.05	3870329.10	3.86122c (13011524)
395690.36	3870319.69	3.58969c (13011524)	
	395667.67	3870310.27	3.47421b (10011124)
395644.98	3870300.85	3.53255b (10011124)	
	395622.29	3870291.44	3.56745b (10011124)
395599.60	3870282.02	3.56679b (10011124)	
	395576.91	3870272.60	3.34328b (10011124)
395554.22	3870263.19	3.20200b (10011124)	
	395522.17	3870231.05	2.96033b (10011124)
395512.81	3870208.34	2.93336b (12120524)	
	395503.45	3870185.62	3.19656b (12120524)
395494.09	3870162.91	3.45047b (12120524)	
	395484.73	3870140.19	3.70649b (12120524)
395475.37	3870117.48	3.88178b (12120524)	
	395466.02	3870094.76	4.25074b (12120524)
395456.66	3870072.05	4.29831b (12120524)	
	395447.30	3870049.33	4.30233b (12120524)
395437.94	3870026.62	4.28306b (12120524)	
	395428.58	3870003.90	4.25318b (12120524)
395419.22	3869981.18	4.21871b (12120524)	
	395826.51	3870376.19	4.34968c (13011524)
395851.46	3870376.19	4.36564c (13011524)	
	395876.40	3870376.19	4.37188c (13011524)
395901.35	3870376.19	4.37360c (13011524)	
	395926.29	3870376.19	4.37276c (13011524)
395951.24	3870376.19	4.95334b (13020524)	
	395976.18	3870376.19	5.68975b (13020524)
396001.12	3870376.19	6.38282b (13020524)	
	396026.07	3870376.20	6.94759b (13020524)
396051.01	3870376.20	7.39563b (13020524)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 170

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
396075.96	3870376.20	7.75267b (13020524)	
396100.90	3870376.20	8.03075b (13020524)	
396125.85	3870376.20	8.24387b (13020524)	
396150.79	3870376.20	8.40398b (13020524)	
396175.74	3870376.20	8.55513b (13020524)	
396200.68	3870376.20	8.66273b (13020524)	
396225.63	3870376.20	8.72389b (13020524)	
396250.57	3870376.21	8.76542b (13020524)	
396275.52	3870376.21	8.79637b (13020524)	
396300.46	3870376.21	8.81461b (13020524)	
396325.41	3870376.21	8.82620b (13020524)	
396350.35	3870376.21	8.83322b (13020524)	
396375.30	3870376.21	8.83737b (13020524)	
396400.24	3870376.21	8.83963b (13020524)	
396425.18	3870376.21	8.84048b (13020524)	
396450.13	3870376.21	8.84062b (13020524)	
396475.07	3870376.22	8.85850b (13020524)	
396500.02	3870376.22	8.86866b (13020524)	
396524.96	3870376.22	8.86467b (13020524)	
396549.91	3870376.22	8.85552b (13020524)	
396574.85	3870376.22	8.83761b (13020524)	
396599.80	3870376.22	8.80316b (13020524)	
396624.74	3870376.22	8.73896b (13020524)	
396649.69	3870376.22	8.62506b (13020524)	
396674.63	3870376.22	8.43414b (13020524)	
396699.58	3870376.23	8.13531b (13020524)	
396724.52	3870376.23	8.17605b (13020124)	
395804.38	3870450.34	4.07527c (13011524)	
395782.26	3870441.16	4.06053c (13011524)	
395760.14	3870431.98	4.02167c (13011524)	
395738.01	3870422.79	3.94488c (13011524)	
395715.89	3870413.61	3.82117c (13011524)	

395671.64	395693.76	3870404.43	3.64470c (13011524)
	3870395.25	3.29224c (13011524)	
	395649.52	3870386.07	3.04152b (10011124)
395627.39	3870376.89	3.07836b (10011124)	
	395605.27	3870367.71	3.11304b (10011124)
395583.14	3870358.53	3.15262b (10011124)	
	395561.02	3870349.34	3.17074b (10011124)
395538.90	3870340.16	3.15556b (10011124)	
	395516.77	3870330.98	3.09857b (10011124)
395494.65	3870321.80	3.00155b (10011124)	
	395463.40	3870290.47	2.77190b (10011124)
395454.27	3870268.32	2.66365b (10011124)	
	395445.15	3870246.18	2.74455b (12120524)
395436.03	3870224.03	2.99186b (12120524)	
	395426.90	3870201.88	3.22733b (12120524)
395417.78	3870179.73	3.43097b (12120524)	
	395408.65	3870157.59	3.58127b (12120524)
395399.53	3870135.44	3.66925b (12120524)	
	395390.40	3870113.29	3.70394b (12120524)
395381.28	3870091.14	3.70515b (12120524)	
	395372.15	3870069.00	3.69094b (12120524)
395363.03	3870046.85	3.67156b (12120524)	
	395353.91	3870024.70	3.66118b (12120524)
395344.78	3870002.55	3.66537b (12120524)	
	395335.66	3869980.41	3.66657b (12120524)
395826.51	3870459.52	4.07302c (13011524)	
	395851.45	3870459.52	4.08407c (13011524)
395876.40	3870459.52	4.10205c (13011524)	
	395901.34	3870459.52	4.11232c (13011524)
395926.29	3870459.52	4.10998c (13011524)	
	395951.23	3870459.53	4.28956b (13020524)
395976.18	3870459.53	4.97975b (13020524)	
	396001.12	3870459.53	5.60855b (13020524)
396026.07	3870459.53	6.16671b (13020524)	
	396051.01	3870459.53	6.65843b (13020524)
396075.95	3870459.53	7.07139b (13020524)	
	396100.90	3870459.53	7.38200b (13020524)
396125.84	3870459.53	7.62595b (13020524)	
	396150.79	3870459.53	7.81413b (13020524)
396175.73	3870459.54	7.95633b (13020524)	
	396200.68	3870459.54	8.06222b (13020524)
396225.62	3870459.54	8.13950b (13020524)	
	396250.57	3870459.54	8.19488b (13020524)
396275.51	3870459.54	8.24252b (13020524)	
	396300.46	3870459.54	8.30021b (13020524)
396325.40	3870459.54	8.32668b (13020524)	
	396350.35	3870459.54	8.33805b (13020524)
396375.29	3870459.54	8.34504b (13020524)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 171

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF ALL IN
 **

MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396400.24	3870459.55	8.34912b	(13020524)	
396425.18	3870459.55	8.35132b	(13020524)	
396450.13	3870459.55	8.35205b	(13020524)	
396475.07	3870459.55	8.35136b	(13020524)	
396500.02	3870459.55	8.34891b	(13020524)	
396524.96	3870459.55	8.34347b	(13020524)	
396549.90	3870459.55	8.33275b	(13020524)	
396574.85	3870459.55	8.31834b	(13020524)	
396599.79	3870459.55	8.29667b	(13020524)	
396624.74	3870459.56	8.23700b	(13020524)	
396649.68	3870459.56	8.12835b	(13020524)	
396674.63	3870459.56	7.95502b	(13020524)	
396699.57	3870459.56	7.69541b	(13020524)	
396724.52	3870459.56	7.33509b	(13120224)	
395804.37	3870700.34	3.22916c	(13011524)	
395782.25	3870691.16	3.23875c	(13011524)	
395760.12	3870681.98	3.24913c	(13011524)	
395738.00	3870672.79	3.25522c	(13011524)	
395715.88	3870663.61	3.25249c	(13011524)	
395693.75	3870654.43	3.23418c	(13011524)	
395671.63	3870645.25	3.19156c	(13011524)	
395649.50	3870636.07	3.11502c	(13011524)	
395627.38	3870626.89	2.97575c	(13011524)	
395605.26	3870617.71	2.79819c	(13011524)	
395583.13	3870608.53	2.56102c	(13011524)	
395561.01	3870599.34	2.40075b	(10011124)	
395538.88	3870590.16	2.47577b	(10011124)	
395516.76	3870580.98	2.54318b	(10011124)	
395494.64	3870571.80	2.60242b	(10011124)	
395472.51	3870562.62	2.65247b	(10011124)	
395450.39	3870553.44	2.65138b	(10011124)	
395428.26	3870544.26	2.64995b	(10011124)	

	395406.14	3870535.08	2.65282b (10011124)
395384.02	3870525.89	2.63038b (10011124)	
	395361.89	3870516.71	2.58008b (10011124)
395339.77	3870507.53	2.48244b (10011124)	
	395317.64	3870498.35	2.34039b (10011124)
395286.40	3870467.02	2.14661b (10011124)	
	395277.27	3870444.87	2.05490b (10011124)
395268.15	3870422.73	1.96139b (10011124)	
	395259.02	3870400.58	1.86706b (10011124)
395249.90	3870378.43	1.98680b (12120524)	
	395240.77	3870356.28	2.19571b (12120524)
395231.65	3870334.14	2.37352b (12120524)	
	395222.52	3870311.99	2.55503b (12120524)
395213.40	3870289.84	2.74187b (12120524)	
	395204.28	3870267.69	2.89480b (12120524)
395195.15	3870245.55	3.00879b (12120524)	
	395186.03	3870223.40	3.07284b (12120524)
395176.90	3870201.25	3.09726b (12120524)	
	395167.78	3870179.10	3.10164b (12120524)
395158.65	3870156.96	3.11264b (12120524)	
	395149.53	3870134.81	3.11720b (12120524)
395140.40	3870112.66	3.14061b (12120524)	
	395131.28	3870090.51	3.13254b (12120524)
395122.15	3870068.37	3.12654b (12120524)	
	395113.03	3870046.22	3.10681b (12120524)
395103.91	3870024.07	3.08390b (12120524)	
	395094.78	3870001.92	3.05644b (12120524)
395085.66	3869979.78	3.02285b (12120524)	
	395826.50	3870709.52	3.21290c (13011524)
395851.44	3870709.52	3.26866c (13011524)	
	395876.39	3870709.52	3.48443c (13011524)
395901.33	3870709.52	3.47756c (13011524)	
	395926.28	3870709.52	3.46573c (13011524)
395951.22	3870709.53	3.45022c (13011524)	
	395976.16	3870709.53	3.42977c (13011524)
396001.11	3870709.53	3.91779b (13020524)	
	396026.05	3870709.53	4.41144b (13020524)
396051.00	3870709.53	4.86949b (13020524)	
	396075.94	3870709.53	5.28307b (13020524)
396100.89	3870709.53	5.65136b (13020524)	
	396125.83	3870709.53	5.99342b (13020524)
396150.78	3870709.53	6.25734b (13020524)	
	396175.72	3870709.54	6.46906b (13020524)
396200.67	3870709.54	6.63907b (13020524)	
	396225.61	3870709.54	6.77271b (13020524)
396250.56	3870709.54	6.87657b (13020524)	
	396275.50	3870709.54	6.95586b (13020524)
396300.45	3870709.54	7.01514b (13020524)	


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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***                               10/09/17
*** AERMET - VERSION 14134 ***   ***
***                               18:08:39

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PAGE 172

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
396325.39	3870709.54	7.05930b (13020524)	
396350.34	3870709.54	7.09685b (13020524)	
396375.28	3870709.54	7.11972b (13020524)	
396400.23	3870709.55	7.13546b (13020524)	
396425.17	3870709.55	7.14584b (13020524)	
396450.11	3870709.55	7.15199b (13020524)	
396475.06	3870709.55	7.15452b (13020524)	
396500.00	3870709.55	7.16617b (13020524)	
396524.95	3870709.55	7.18161b (13020524)	
396549.89	3870709.55	7.16893b (13020524)	
396574.84	3870709.55	7.14654b (13020524)	
396599.78	3870709.55	7.10924b (13020524)	
396624.73	3870709.56	7.05090b (13020524)	
396649.67	3870709.56	6.96418b (13020524)	
396674.62	3870709.56	6.83908b (13020524)	
396699.56	3870709.56	6.66193b (13020524)	
396724.51	3870709.56	6.42637b (13020524)	
395803.65	3870950.04	2.82455c (13011524)	
395780.81	3870940.57	2.83641c (13011524)	
395757.97	3870931.09	2.84716c (13011524)	
395735.13	3870921.61	2.85420c (13011524)	
395712.30	3870912.13	2.86429c (13011524)	
395689.46	3870902.66	2.83536c (13011524)	
395666.62	3870893.18	2.81545c (13011524)	
395643.78	3870883.70	2.76961c (13011524)	
395620.95	3870874.22	2.74071c (13011524)	
395598.11	3870864.75	2.69102c (13011524)	
395575.27	3870855.27	2.61506c (13011524)	
395552.43	3870845.79	2.50642c (13011524)	
395529.60	3870836.31	2.36408c (13011524)	
395506.76	3870826.84	2.19107c (13011524)	
395483.92	3870817.36	1.99376c (13011524)	

395438.24	395461.08	3870807.88	1.94487b (10011124)
	3870798.40		2.02561b (10011124)
	395415.41	3870788.93	2.07052b (10011124)
395392.57	3870779.45		2.12899b (10011124)
	395369.73	3870769.97	2.19003b (10011124)
395346.89	3870760.49		2.24299b (10011124)
	395324.06	3870751.02	2.28646b (10011124)
395301.22	3870741.54		2.31844b (10011124)
	395278.38	3870732.06	2.33582b (10011124)
395255.54	3870722.58		2.32777b (10011124)
	395232.70	3870713.11	2.26167b (10011124)
395209.87	3870703.63		2.21187b (10011124)
	395187.03	3870694.15	2.14853b (10011124)
395164.19	3870684.67		2.06870b (10011124)
	395141.35	3870675.20	1.97736b (10011124)
395109.10	3870642.86		1.74293b (10011124)
	395099.68	3870619.99	1.64290b (10011124)
395090.26	3870597.13		1.52238b (10011124)
	395080.84	3870574.27	1.34962b (10011124)
395071.42	3870551.41		1.13380b (10011124)
	395062.00	3870528.55	0.76952b (12120524)
395052.58	3870505.68		0.62427b (12120524)
	395043.17	3870482.82	0.52516b (12120524)
395033.75	3870459.96		0.48902b (12120524)
	395024.33	3870437.10	0.58708b (12120524)
395014.91	3870414.24		0.85050b (12120524)
	395005.49	3870391.38	1.32205b (12120524)
394996.07	3870368.51		1.95014b (12120524)
	394986.65	3870345.65	2.47670b (12120524)
394977.23	3870322.79		2.59593b (12120524)
	394967.82	3870299.93	2.65190b (12120524)
394958.40	3870277.07		2.66190b (12120524)
	394948.98	3870254.20	2.66141b (12120524)
394939.56	3870231.34		2.65531b (12120524)
	394930.14	3870208.48	2.69364b (12120524)
394920.72	3870185.62		2.71576b (12120524)
	394911.30	3870162.76	2.70184b (12120524)
394901.88	3870139.89		2.68527b (12120524)
	394892.46	3870117.03	2.66499b (12120524)
394883.05	3870094.17		2.63965b (12120524)
	394873.63	3870071.31	2.61692b (12120524)
394864.21	3870048.45		2.61322b (12120524)
	394854.79	3870025.58	2.56623b (12120524)
394845.37	3870002.72		2.51165b (12120524)
	394835.95	3869979.86	2.43522b (12120524)
395826.49	3870959.52		2.81140c (13011524)
	395851.43	3870959.52	2.80667c (13011524)
395876.37	3870959.52		2.82224c (13011524)

PAGE 173

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,
 *** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF ALL IN
 ** MICROGRAMS/M**3

X-COORD (M)		Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
-	-	-	-	-
395901.32	3870959.52	2.84063c	(13011524)	
395926.26	3870959.52	2.84267c	(13011524)	
395951.21	3870959.53	2.82107c	(13011524)	
395976.15	3870959.53	2.79236c	(13011524)	
396001.10	3870959.53	2.75498c	(13011524)	
396026.04	3870959.53	2.87067b	(13020524)	
396050.99	3870959.53	3.33806b	(13020524)	
396075.93	3870959.53	3.77209b	(13020524)	
396100.88	3870959.53	4.15794b	(13020524)	
396125.82	3870959.53	4.48814b	(13020524)	
396150.77	3870959.53	4.81097b	(13020524)	
396175.71	3870959.54	5.05250b	(13020524)	
396200.66	3870959.54	5.25140b	(13020524)	
396225.60	3870959.54	5.66177b	(13020524)	
396250.55	3870959.54	5.81342b	(13020524)	
396275.49	3870959.54	5.93662b	(13020524)	
396300.44	3870959.54	6.03592b	(13020524)	
396325.38	3870959.54	6.11384b	(13020524)	
396350.32	3870959.54	6.17471b	(13020524)	
396375.27	3870959.54	6.22703b	(13020524)	
396400.21	3870959.55	6.26197b	(13020524)	
396425.16	3870959.55	6.28727b	(13020524)	
396450.10	3870959.55	6.31849b	(13020524)	
396475.05	3870959.55	6.34319b	(13020524)	
396499.99	3870959.55	6.34986b	(13020524)	
396524.94	3870959.55	6.33373b	(13020524)	
396549.88	3870959.55	6.30829b	(13020524)	
396574.83	3870959.55	6.31833b	(13020524)	
396599.77	3870959.55	6.29103b	(13020524)	
396624.72	3870959.56	6.24283b	(13020524)	
396649.66	3870959.56	6.17307b	(13020524)	
396674.61	3870959.56	6.07673b	(13020524)	

396724.50	396699.55	3870959.56	5.94903b (13020524)
	3870959.56	5.78448b (13020524)	
	395803.94	3871350.17	2.29491c (13011524)
395781.42	3871340.82	2.31715c (13011524)	
	395758.89	3871331.48	2.33492c (13011524)
395736.36	3871322.13	2.34931c (13011524)	
	395713.84	3871312.78	2.36105c (13011524)
395691.31	3871303.43	2.37079c (13011524)	
	395668.78	3871294.08	2.37887c (13011524)
395646.26	3871284.73	2.38532c (13011524)	
	395623.73	3871275.39	2.38985c (13011524)
395601.20	3871266.04	2.39168c (13011524)	
	395578.68	3871256.69	2.37894c (13011524)
395556.15	3871247.34	2.36796c (13011524)	
	395533.63	3871237.99	2.31491c (13011524)
395511.10	3871228.64	2.27603c (13011524)	
	395488.57	3871219.30	2.21529c (13011524)
395466.05	3871209.95	2.15225c (13011524)	
	395443.52	3871200.60	2.06799c (13011524)
395420.99	3871191.25	1.96180c (13011524)	
	395398.47	3871181.90	1.83493c (13011524)
395375.94	3871172.56	1.69041c (13011524)	
	395353.42	3871163.21	1.53306c (13011524)
395330.89	3871153.86	1.36787c (13011524)	
	395308.36	3871144.51	1.34105b (10011124)
395285.84	3871135.16	1.42117b (10011124)	
	395263.31	3871125.81	1.49906b (10011124)
395240.78	3871116.47	1.57411b (10011124)	
	395218.26	3871107.12	1.64565b (10011124)
395195.73	3871097.77	1.70841b (10011124)	
	395173.21	3871088.42	1.74999b (10011124)
395150.68	3871079.07	1.80104b (10011124)	
	395128.15	3871069.73	1.84229b (10011124)
395105.63	3871060.38	1.87973b (10011124)	
	395083.10	3871051.03	1.89712b (10011124)
395060.57	3871041.68	1.90835b (10011124)	
	395038.05	3871032.33	1.90526b (10011124)
395015.52	3871022.98	1.89650b (10011124)	
	394992.99	3871013.64	1.83965b (10011124)
394970.47	3871004.29	1.80178b (10011124)	
	394947.94	3870994.94	1.75665b (10011124)
394925.42	3870985.59	1.69945b (10011124)	
	394902.89	3870976.24	1.63270b (10011124)
394880.36	3870966.89	1.52722b (10011124)	
	394857.84	3870957.55	1.43331b (10011124)
394826.02	3870925.65	1.28893b (10011124)	
	394816.73	3870903.10	1.22106b (10011124)
394807.44	3870880.55	1.15271b (10011124)	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 174

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
394798.15	3870858.00	1.08414b	(10011124)	
394788.86	3870835.45	0.99849b	(10011124)	
394779.57	3870812.90	0.91167b	(10011124)	
394770.28	3870790.35	0.84498b	(10011124)	
394760.99	3870767.80	0.77824b	(10011124)	
394751.70	3870745.25	0.77068b	(12120524)	
394742.41	3870722.70	0.87131b	(12120524)	
394733.12	3870700.15	0.98294b	(12120524)	
394723.83	3870677.60	1.06505b	(12120524)	
394714.54	3870655.05	1.07876b	(12120524)	
394705.25	3870632.50	1.03863b	(12120524)	
394695.96	3870609.95	0.95687b	(12120524)	
394686.66	3870587.39	0.86807b	(12120524)	
394677.37	3870564.84	0.73526b	(12120524)	
394668.08	3870542.29	0.60406b	(12120524)	
394658.79	3870519.74	0.47388b	(13101724)	
394649.50	3870497.19	0.48347b	(13101724)	
394640.21	3870474.64	0.49432b	(13101724)	
394630.92	3870452.09	0.58837b	(12120524)	
394621.63	3870429.54	0.79156b	(12120524)	
394612.34	3870406.99	1.06402b	(12120524)	
394603.05	3870384.44	1.33927b	(12120524)	
394593.76	3870361.89	1.57697b	(12120524)	
394584.47	3870339.34	1.81000b	(12120524)	
394575.18	3870316.79	1.97105b	(12120524)	
394565.89	3870294.24	2.02870b	(12120524)	
394556.60	3870271.69	2.10786b	(12120524)	
394547.31	3870249.14	2.17525b	(12120524)	
394538.02	3870226.59	2.18868b	(12120524)	
394528.73	3870204.04	2.18877b	(12120524)	
394519.44	3870181.49	2.16043b	(12120524)	
394510.15	3870158.94	2.10339b	(12120524)	

	394500.86	3870136.39	2.02326b (12120524)
394491.57	3870113.84	1.93235b (12120524)	
	394482.28	3870091.29	1.83158b (12120524)
394472.99	3870068.74	1.73913b (12120524)	
	394463.70	3870046.19	1.64494b (12120524)
394454.41	3870023.64	1.54228b (12120524)	
	394445.12	3870001.09	1.42872b (12120524)
394435.82	3869978.54	1.30146b (12120524)	
	395826.47	3871359.52	2.26708c (13011524)
395851.41	3871359.52	2.23972c (13011524)	
	395876.36	3871359.52	2.20476c (13011524)
395901.30	3871359.52	2.16521c (13011524)	
	395926.25	3871359.52	2.12647c (13011524)
395951.19	3871359.53	2.08875c (13011524)	
	395976.14	3871359.53	2.00917c (13011524)
396001.08	3871359.53	1.91693c (13011524)	
	396026.03	3871359.53	1.85632c (10012824)
396050.97	3871359.53	1.88039b (13020524)	
	396075.91	3871359.53	2.23956b (13020524)
396100.86	3871359.53	2.59638b (13020524)	
	396125.80	3871359.53	2.93690b (13020524)
396150.75	3871359.53	3.32510b (13020524)	
	396175.69	3871359.54	3.63633b (13020524)
396200.64	3871359.54	3.88293b (13020524)	
	396225.58	3871359.54	4.09060b (13020524)
396250.53	3871359.54	4.26066b (13020524)	
	396275.47	3871359.54	4.39626b (13020524)
396300.42	3871359.54	4.50165b (13020524)	
	396325.36	3871359.54	4.58143b (13020524)
396350.31	3871359.54	4.69042b (13020524)	
	396375.25	3871359.54	4.81785b (13020524)
396400.20	3871359.55	4.85263b (13020524)	
	396425.14	3871359.55	4.89291b (13020524)
396450.09	3871359.55	4.90996b (13020524)	
	396475.03	3871359.55	4.92138b (13020524)
396499.98	3871359.55	4.92875b (13020524)	
	396524.92	3871359.55	4.93328b (13020524)
396549.86	3871359.55	4.93550b (13020524)	
	396574.81	3871359.55	4.93541b (13020524)
396599.75	3871359.55	4.93321b (13020524)	
	396624.70	3871359.56	4.92707b (13020524)
396649.64	3871359.56	4.92495b (13020524)	
	396674.59	3871359.56	4.93616b (13020524)
396699.53	3871359.56	5.14899b (13020524)	
	396724.48	3871359.56	5.04781b (13020524)
395803.69	3871750.08	1.80920c (13011524)	
	395780.94	3871740.63	1.85170c (13011524)
395758.18	3871731.19	1.91854c (13011524)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 175

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395735.43	3871721.75	1.96533c	(13011524)	
395712.67	3871712.30	1.99917c	(13011524)	
395689.91	3871702.86	2.02662c	(13011524)	
395667.16	3871693.41	2.04864c	(13011524)	
395644.40	3871683.97	2.06624c	(13011524)	
395621.64	3871674.53	2.08024c	(13011524)	
395598.89	3871665.08	2.09127c	(13011524)	
395576.13	3871655.64	2.08199c	(13011524)	
395553.38	3871646.20	2.08441c	(13011524)	
395530.62	3871636.75	2.10756c	(13011524)	
395507.86	3871627.31	2.06644c	(13011524)	
395485.11	3871617.87	2.04565c	(13011524)	
395462.35	3871608.42	2.03838c	(13011524)	
395439.60	3871598.98	2.02448c	(13011524)	
395416.84	3871589.53	2.00180c	(13011524)	
395394.08	3871580.09	1.93654c	(13011524)	
395371.33	3871570.65	1.85970c	(13011524)	
395348.57	3871561.20	1.80022c	(13011524)	
395325.81	3871551.76	1.72479c	(13011524)	
395303.06	3871542.32	1.63338c	(13011524)	
395280.30	3871532.87	1.52686c	(13011524)	
395257.55	3871523.43	1.40672c	(13011524)	
395234.79	3871513.99	1.27902c	(13011524)	
395212.03	3871504.54	1.12886c	(13011524)	
395189.28	3871495.10	0.98695c	(13011524)	
395166.52	3871485.66	0.83811c	(13011524)	
395143.77	3871476.21	0.88830b	(10011124)	
395121.01	3871466.77	0.96084b	(10011124)	
395098.25	3871457.32	1.03257b	(10011124)	
395075.50	3871447.88	1.10034b	(10011124)	
395052.74	3871438.44	1.16029b	(10011124)	
395029.98	3871428.99	1.21704b	(10011124)	

	395007.23	3871419.55	1.27439b	(10011124)
394984.47	3871410.11		1.33101b	(10011124)
	394961.72	3871400.66	1.38868b	(10011124)
394938.96	3871391.22		1.44235b	(10011124)
	394916.20	3871381.78	1.48111b	(10011124)
394893.45	3871372.33		1.51816b	(10011124)
	394870.69	3871362.89	1.52808b	(10011124)
394847.94	3871353.44		1.55510b	(10011124)
	394825.18	3871344.00	1.57562b	(10011124)
394802.42	3871334.56		1.58656b	(10011124)
	394779.67	3871325.11	1.58677b	(10011124)
394756.91	3871315.67		1.53847b	(10011124)
	394734.15	3871306.23	1.50344b	(10011124)
394711.40	3871296.78		1.47019b	(10011124)
	394688.64	3871287.34	1.42607b	(10011124)
394665.89	3871277.90		1.34136b	(10011124)
	394643.13	3871268.45	1.27188b	(10011124)
394620.37	3871259.01		1.21174b	(10011124)
	394597.62	3871249.56	1.14889b	(10011124)
394574.86	3871240.12		1.08441b	(10011124)
	394542.72	3871207.90	0.96155b	(10011124)
394533.34	3871185.12		0.90366b	(10011124)
	394523.95	3871162.34	0.84551b	(10011124)
394514.56	3871139.56		0.78727b	(10011124)
	394505.18	3871116.78	0.72895b	(10011124)
394495.79	3871094.00		0.67066b	(10011124)
	394486.41	3871071.22	0.61250b	(10011124)
394477.02	3871048.44		0.54172b	(10011124)
	394467.64	3871025.65	0.48161b	(10011124)
394458.25	3871002.87		0.42824b	(10011124)
	394448.87	3870980.09	0.38076b	(12120524)
394439.48	3870957.31		0.45664b	(12120524)
	394430.10	3870934.53	0.53618b	(12120524)
394420.71	3870911.75		0.61839b	(12120524)
	394411.33	3870888.97	0.70232b	(12120524)
394401.94	3870866.19		0.77330b	(12120524)
	394392.56	3870843.41	0.84392b	(12120524)
394383.17	3870820.63		0.89595b	(12120524)
	394373.79	3870797.85	0.94060b	(12120524)
394364.40	3870775.07		0.93213b	(12120524)
	394355.02	3870752.29	0.87886b	(12120524)
394345.63	3870729.51		0.77699b	(12120524)
	394336.25	3870706.73	0.64716b	(12120524)
394326.86	3870683.95		0.52257b	(12120524)
	394317.48	3870661.17	0.46001b	(13101724)
394308.09	3870638.39		0.46611b	(13101724)
	394298.71	3870615.61	0.47142b	(13101724)
394289.32	3870592.83		0.47839b	(13101724)


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 176

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*** MODELOPTs:    RegDEFAULT CONC ELEV RURAL

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*** THE    1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL    ***
        INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL    IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
394279.94	3870570.05	0.48329b	(13101724)	
394270.55	3870547.27	0.54318b	(12120524)	
394261.17	3870524.49	0.69547b	(12120524)	
394251.78	3870501.71	0.88192b	(12120524)	
394242.39	3870478.93	1.06290b	(12120524)	
394233.01	3870456.15	1.24140b	(12120524)	
394223.62	3870433.37	1.32719b	(12120524)	
394214.24	3870410.59	1.38960b	(12120524)	
394204.85	3870387.81	1.40576b	(12120524)	
394195.47	3870365.03	1.38601b	(12120524)	
394186.08	3870342.25	1.39502b	(12120524)	
394176.70	3870319.47	1.47127b	(12120524)	
394167.31	3870296.68	1.47673b	(12120524)	
394157.93	3870273.90	1.44559b	(12120524)	
394148.54	3870251.12	1.36970b	(12120524)	
394139.16	3870228.34	1.27779b	(12120524)	
394129.77	3870205.56	1.20207b	(12120524)	
394120.39	3870182.78	1.12427b	(12120524)	
394111.00	3870160.00	1.04825b	(12120524)	
394101.62	3870137.22	0.97164b	(12120524)	
394092.23	3870114.44	0.86937b	(12120524)	
394082.85	3870091.66	0.77948b	(12120524)	
394073.46	3870068.88	0.68892b	(12120524)	
394064.08	3870046.10	0.61455b	(13121724)	
394054.69	3870023.32	0.63280b	(13121724)	
394045.31	3870000.54	0.64927b	(13121724)	
394035.92	3869977.76	0.66355b	(13121724)	
395826.45	3871759.52	1.74659c	(13011524)	
395851.39	3871759.52	1.67083c	(13011524)	
395876.34	3871759.52	1.59676c	(10012824)	
395901.28	3871759.52	1.59675c	(10012824)	
395926.23	3871759.52	1.59431c	(10012824)	

	395951.17	3871759.53	1.59090c (10012824)
395976.12	3871759.53	1.58595c (10012824)	
	396001.06	3871759.53	1.57865c (10012824)
396026.01	3871759.53	1.56786c (10012824)	
	396050.95	3871759.53	1.55218c (10012824)
396075.90	3871759.53	1.53442c (10012824)	
	396100.84	3871759.53	1.59761b (13020524)
396125.79	3871759.53	1.89028b (13020524)	
	396150.73	3871759.53	2.17756b (13020524)
396175.68	3871759.54	2.45589b (13020524)	
	396200.62	3871759.54	2.71853b (13020524)
396225.57	3871759.54	2.95944b (13020524)	
	396250.51	3871759.54	3.17386b (13020524)
396275.45	3871759.54	3.35969b (13020524)	
	396300.40	3871759.54	3.51645b (13020524)
396325.34	3871759.54	3.64534b (13020524)	
	396350.29	3871759.54	3.74876b (13020524)
396375.23	3871759.54	3.85015b (13020524)	
	396400.18	3871759.55	4.02596b (13020524)
396425.12	3871759.55	4.08928b (13020524)	
	396450.07	3871759.55	4.12974b (13020524)
396475.01	3871759.55	4.15754b (13020524)	
	396499.96	3871759.55	4.17741b (13020524)
396524.90	3871759.55	4.19088b (13020524)	
	396549.85	3871759.55	4.19997b (13020524)
396574.79	3871759.55	4.20567b (13020524)	
	396599.74	3871759.55	4.27978b (13020524)
396624.68	3871759.56	4.31940b (13020524)	
	396649.63	3871759.56	4.32309b (13020524)
396674.57	3871759.56	4.31465b (13020524)	
	396699.52	3871759.56	4.29983b (13020524)
396724.46	3871759.56	4.27633b (13020524)	
	395803.53	3872150.01	1.37179c (10012824)
395780.62	3872140.51	1.37580c (10012824)	
	395757.72	3872131.00	1.37963c (10012824)
395734.81	3872121.50	1.40836c (13011524)	
	395711.91	3872111.99	1.47639c (13011524)
395689.00	3872102.49	1.53564c (13011524)	
	395666.10	3872092.98	1.58640c (13011524)
395643.19	3872083.48	1.62917c (13011524)	
	395620.29	3872073.97	1.66468c (13011524)
395597.38	3872064.47	1.69363c (13011524)	
	395574.48	3872054.96	1.71694c (13011524)
395551.57	3872045.46	1.73546c (13011524)	
	395528.67	3872035.95	1.75001c (13011524)
395505.76	3872026.45	1.76126c (13011524)	
	395482.86	3872016.94	1.76974c (13011524)
395459.95	3872007.43	1.75543c (13011524)	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 177

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE   1ST HIGHEST 24-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL   ***
               INCLUDING SOURCE(S):   AREA1  ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
395437.05	3871997.93	1.71330c	(13011524)	
395414.14	3871988.42	1.71725c	(13011524)	
395391.24	3871978.92	1.71307c	(13011524)	
395368.33	3871969.41	1.70820c	(13011524)	
395345.43	3871959.91	1.69878c	(13011524)	
395322.52	3871950.40	1.68341c	(13011524)	
395299.62	3871940.90	1.66045c	(13011524)	
395276.71	3871931.39	1.62821c	(13011524)	
395253.81	3871921.89	1.57370c	(13011524)	
395230.91	3871912.38	1.47298c	(13011524)	
395208.00	3871902.88	1.40669c	(13011524)	
395185.10	3871893.37	1.32911c	(13011524)	
395162.19	3871883.87	1.24154c	(13011524)	
395139.29	3871874.36	1.14455c	(13011524)	
395116.38	3871864.85	1.04052c	(13011524)	
395093.48	3871855.35	0.90991c	(13011524)	
395070.57	3871845.84	0.78396c	(13011524)	
395047.67	3871836.34	0.68001c	(13011524)	
395024.76	3871826.83	0.58013c	(13011524)	
395001.86	3871817.33	0.53768b	(13111224)	
394978.95	3871807.82	0.54504b	(10011124)	
394956.05	3871798.32	0.60763b	(10011124)	
394933.14	3871788.81	0.67058b	(10011124)	
394910.24	3871779.31	0.73346b	(10011124)	
394887.33	3871769.80	0.79613b	(10011124)	
394864.43	3871760.30	0.85370b	(10011124)	
394841.52	3871750.79	0.89698b	(10011124)	
394818.62	3871741.29	0.97505b	(10011124)	
394795.71	3871731.78	1.02409b	(10011124)	
394772.81	3871722.27	1.06482b	(10011124)	
394749.90	3871712.77	1.11556b	(10011124)	
394727.00	3871703.26	1.16555b	(10011124)	

	394704.09	3871693.76	1.19390b (10011124)
394681.19	3871684.25	1.22617b (10011124)	
	394658.28	3871674.75	1.25223b (10011124)
394635.38	3871665.24	1.28409b (10011124)	
	394612.47	3871655.74	1.28428b (10011124)
394589.57	3871646.23	1.28277b (10011124)	
	394566.66	3871636.73	1.29323b (10011124)
394543.76	3871627.22	1.29532b (10011124)	
	394520.85	3871617.72	1.27669b (10011124)
394497.95	3871608.21	1.25189b (10011124)	
	394475.04	3871598.71	1.20130b (10011124)
394452.14	3871589.20	1.16932b (10011124)	
	394429.23	3871579.69	1.13048b (10011124)
394406.33	3871570.19	1.06728b (10011124)	
	394383.42	3871560.68	0.99639b (10011124)
394360.52	3871551.18	0.94687b (10011124)	
	394337.61	3871541.67	0.89556b (10011124)
394314.71	3871532.17	0.82590b (10011124)	
	394291.80	3871522.66	0.75725b (10011124)
394259.45	3871490.23	0.67654b (10011124)	
	394250.01	3871467.30	0.63437b (10011124)
394240.56	3871444.37	0.59351b (10011124)	
	394231.11	3871421.44	0.54574b (10011124)
394221.67	3871398.51	0.49818b (10011124)	
	394212.22	3871375.58	0.45094b (10011124)
394202.77	3871352.65	0.40421b (10011124)	
	394193.33	3871329.72	0.35835b (10011124)
394183.88	3871306.79	0.31369b (10011124)	
	394174.43	3871283.87	0.27062b (10011124)
394164.99	3871260.94	0.22967b (10011124)	
	394155.54	3871238.01	0.19844b (13121624)
394146.10	3871215.08	0.19199b (13121624)	
	394136.65	3871192.15	0.20666b (13101724)
394127.20	3871169.22	0.24199b (12120524)	
	394117.76	3871146.29	0.30113b (12120524)
394108.31	3871123.36	0.36624b (12120524)	
	394098.86	3871100.43	0.43649b (12120524)
394089.42	3871077.50	0.51069b (12120524)	
	394079.97	3871054.57	0.54528b (12120524)
394070.52	3871031.64	0.53445b (12120524)	
	394061.08	3871008.71	0.51974b (12120524)
394051.63	3870985.79	0.54900b (12120524)	
	394042.18	3870962.86	0.57668b (12120524)
394032.74	3870939.93	0.59578b (12120524)	
	394023.29	3870917.00	0.60558b (12120524)
394013.84	3870894.07	0.61819b (12120524)	
	394004.40	3870871.14	0.65285b (12120524)
393994.95	3870848.21	0.67653b (12120524)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 178

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
393985.50	3870825.28	0.64745b	(12120524)	
393976.06	3870802.35	0.66576b	(12120524)	
393966.61	3870779.42	0.62833b	(12120524)	
393957.16	3870756.49	0.55592b	(12120524)	
393947.72	3870733.56	0.46673b	(12120524)	
393938.27	3870710.64	0.45904b	(13101724)	
393928.83	3870687.71	0.45748b	(13101724)	
393919.38	3870664.78	0.45509b	(13101724)	
393909.93	3870641.85	0.45197b	(13101724)	
393900.49	3870618.92	0.44997b	(12120524)	
393891.04	3870595.99	0.57732b	(12120524)	
393881.59	3870573.06	0.73441b	(12120524)	
393872.15	3870550.13	0.88319b	(12120524)	
393862.70	3870527.20	0.92309b	(12120524)	
393853.25	3870504.27	0.89243b	(12120524)	
393843.81	3870481.34	0.84835b	(12120524)	
393834.36	3870458.41	0.78861b	(12120524)	
393824.91	3870435.48	0.63662b	(12120524)	
393815.47	3870412.56	0.60229b	(12120524)	
393806.02	3870389.63	0.62287b	(12120524)	
393796.57	3870366.70	0.65202b	(12120524)	
393787.13	3870343.77	0.65356b	(12120524)	
393777.68	3870320.84	0.63959b	(12120524)	
393768.23	3870297.91	0.60349b	(12120524)	
393758.79	3870274.98	0.53319b	(12120524)	
393749.34	3870252.05	0.43978b	(12120524)	
393739.90	3870229.12	0.44304b	(13121724)	
393730.45	3870206.19	0.46689b	(13121724)	
393721.00	3870183.26	0.49012b	(13121724)	
393711.56	3870160.33	0.51264b	(13121724)	
393702.11	3870137.40	0.53472b	(13121724)	
393692.66	3870114.48	0.55576b	(13121724)	

393683.22	3870091.55	0.57538b	(13121724)
393673.77	3870068.62	0.59281b	(13121724)
393664.32	3870045.69	0.60802b	(13121724)
393654.88	3870022.76	0.62030b	(13121724)
393645.43	3869999.83	0.63086b	(13121724)
393635.98	3869976.90	0.63950b	(13121724)
395826.43	3872159.52	1.36742c	(10012824)
395851.38	3872159.52	1.36498c	(10012824)
395876.32	3872159.52	1.36152c	(10012824)
395901.27	3872159.52	1.36301c	(10012824)
395926.21	3872159.52	1.36809c	(10012824)
395951.16	3872159.53	1.36651c	(10012824)
395976.10	3872159.53	1.35006c	(10012824)
396001.05	3872159.53	1.33619c	(10012824)
396025.99	3872159.53	1.31352c	(10012824)
396050.93	3872159.53	1.27957c	(10012824)
396075.88	3872159.53	1.23181c	(10012824)
396100.82	3872159.53	1.16706c	(10012824)
396125.77	3872159.53	1.17808b	(13020524)
396150.71	3872159.53	1.40520b	(13020524)
396175.66	3872159.54	1.63799b	(13020524)
396200.60	3872159.54	1.87395b	(13020524)
396225.55	3872159.54	2.10658b	(13020524)
396250.49	3872159.54	2.32998b	(13020524)
396275.44	3872159.54	2.53906b	(13020524)
396300.38	3872159.54	2.72994b	(13020524)
396325.33	3872159.54	2.92381b	(13020524)
396350.27	3872159.54	3.10848b	(13020524)
396375.22	3872159.54	3.26246b	(13020524)
396400.16	3872159.55	3.37193b	(13020524)
396425.11	3872159.55	3.46182b	(13020524)
396450.05	3872159.55	3.53412b	(13020524)
396474.99	3872159.55	3.59120b	(13020524)
396499.94	3872159.55	3.63518b	(13020524)
396524.88	3872159.55	3.66828b	(13020524)
396549.83	3872159.55	3.69398b	(13020524)
396574.77	3872159.55	3.79930b	(13020524)
396599.72	3872159.55	3.84529b	(13020524)
396624.66	3872159.56	3.85437b	(13020524)
396649.61	3872159.56	3.85850b	(13020524)
396674.55	3872159.56	3.85849b	(13020524)
396699.50	3872159.56	3.85389b	(13020524)
396724.44	3872159.56	3.84380b	(13020524)
395803.41	3872549.97	0.52932c	(10012824)
395780.40	3872540.42	0.73904c	(10012824)
395757.39	3872530.87	0.91143c	(10012824)
395734.38	3872521.33	1.03929c	(10012824)
395711.37	3872511.78	1.14262c	(10012824)

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 179

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
395688.36	3872502.23	1.18813c	(10012824)	
395665.35	3872492.68	1.22061c	(10012824)	
395642.34	3872483.13	1.23290c	(10012824)	
395619.33	3872473.58	1.23717c	(10012824)	
395596.32	3872464.03	1.30910c	(13011524)	
395573.32	3872454.49	1.35964c	(13011524)	
395550.31	3872444.94	1.39078c	(13011524)	
395527.30	3872435.39	1.42860c	(13011524)	
395504.29	3872425.84	1.46051c	(13011524)	
395481.28	3872416.29	1.48666c	(13011524)	
395458.27	3872406.74	1.50777c	(13011524)	
395435.26	3872397.19	1.52113c	(13011524)	
395412.25	3872387.65	1.53358c	(13011524)	
395389.24	3872378.10	1.51729c	(13011524)	
395366.23	3872368.55	1.51308c	(13011524)	
395343.23	3872359.00	1.49800c	(13011524)	
395320.22	3872349.45	1.49998c	(13011524)	
395297.21	3872339.90	1.49959c	(13011524)	
395274.20	3872330.36	1.49635c	(13011524)	
395251.19	3872320.81	1.48957c	(13011524)	
395228.18	3872311.26	1.47836c	(13011524)	
395205.17	3872301.71	1.46157c	(13011524)	
395182.16	3872292.16	1.40286c	(13011524)	
395159.15	3872282.61	1.34699c	(13011524)	
395136.14	3872273.06	1.30863c	(13011524)	
395113.14	3872263.52	1.26078c	(13011524)	
395090.13	3872253.97	1.16777c	(13011524)	
395067.12	3872244.42	1.08436c	(13011524)	
395044.11	3872234.87	1.01210c	(13011524)	
395021.10	3872225.32	0.93284c	(13011524)	
394998.09	3872215.77	0.84842c	(13011524)	
394975.08	3872206.22	0.74203c	(13011524)	

	394952.07	3872196.68	0.64469c (13011524)
394929.06	3872187.13	0.56857b (13111224)	
	394906.05	3872177.58	0.54307b (13111224)
394883.05	3872168.03	0.51545b (13111224)	
	394860.04	3872158.48	0.48585b (13111224)
394837.03	3872148.93	0.45467b (13111224)	
	394814.02	3872139.38	0.42332b (13111224)
394791.01	3872129.84	0.39176b (13111224)	
	394768.00	3872120.29	0.38134b (10011124)
394744.99	3872110.74	0.43084b (10011124)	
	394721.98	3872101.19	0.46841b (10011124)
394698.97	3872091.64	0.51762b (10011124)	
	394675.96	3872082.09	0.56847b (10011124)
394652.96	3872072.54	0.61636b (10011124)	
	394629.95	3872063.00	0.66327b (10011124)
394606.94	3872053.45	0.69897b (10011124)	
	394583.93	3872043.90	0.73953b (10011124)
394560.92	3872034.35	0.78358b (10011124)	
	394537.91	3872024.80	0.83134b (10011124)
394514.90	3872015.25	0.87487b (10011124)	
	394491.89	3872005.70	0.90909b (10011124)
394468.88	3871996.16	0.95425b (10011124)	
	394445.87	3871986.61	0.98597b (10011124)
394422.87	3871977.06	0.98718b (10011124)	
	394399.86	3871967.51	1.00936b (10011124)
394376.85	3871957.96	1.03101b (10011124)	
	394353.84	3871948.41	1.04381b (10011124)
394330.83	3871938.86	1.05252b (10011124)	
	394307.82	3871929.32	1.02936b (10011124)
394284.81	3871919.77	1.00346b (10011124)	
	394261.80	3871910.22	0.98690b (10011124)
394238.79	3871900.67	0.94977b (10011124)	
	394215.78	3871891.12	0.92421b (10011124)
394192.78	3871881.57	0.86934b (10011124)	
	394169.77	3871872.03	0.82339b (10011124)
394146.76	3871862.48	0.78216b (10011124)	
	394123.75	3871852.93	0.71817b (10011124)
394100.74	3871843.38	0.65790b (10011124)	
	394077.73	3871833.83	0.61449b (10011124)
394054.72	3871824.28	0.56570b (10011124)	
	394031.71	3871814.73	0.50947b (10011124)
394008.70	3871805.19	0.47349b (10011124)	
	393976.21	3871772.60	0.40466b (10011124)
393966.72	3871749.57	0.37004b (10011124)	
	393957.23	3871726.54	0.33757b (10011124)
393947.74	3871703.50	0.30842b (10011124)	
	393938.25	3871680.47	0.28025b (10011124)
393928.76	3871657.44	0.25378b (10011124)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 180

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL IN	
		**	
X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)
393919.27	3871634.40	0.22685b	(10011124)
393909.78	3871611.37	0.20904b	(13121624)
393900.29	3871588.34	0.20626b	(13121624)
393890.80	3871565.30	0.20273b	(13121624)
393881.31	3871542.27	0.19847b	(13121624)
393871.82	3871519.24	0.19369b	(13121624)
393862.33	3871496.20	0.18819b	(13121624)
393852.84	3871473.17	0.18214b	(13121624)
393843.35	3871450.14	0.17561b	(13121624)
393833.86	3871427.10	0.16865b	(13121624)
393824.37	3871404.07	0.18134b	(13101724)
393814.88	3871381.03	0.19549b	(13101724)
393805.39	3871358.00	0.21000b	(13101724)
393795.91	3871334.97	0.22481b	(13101724)
393786.42	3871311.93	0.23924b	(13101724)
393776.93	3871288.90	0.25375b	(13101724)
393767.44	3871265.87	0.26840b	(13101724)
393757.95	3871242.83	0.28315b	(13101724)
393748.46	3871219.80	0.29769b	(13101724)
393738.97	3871196.77	0.31181b	(13101724)
393729.48	3871173.73	0.32535b	(13101724)
393719.99	3871150.70	0.33790b	(13101724)
393710.50	3871127.67	0.34967b	(13101724)
393701.01	3871104.63	0.36186b	(13101724)
393691.52	3871081.60	0.37347b	(13101724)
393682.03	3871058.57	0.38390b	(13101724)
393672.54	3871035.53	0.39298b	(13101724)
393663.05	3871012.50	0.40100b	(13101724)
393653.56	3870989.47	0.34277b	(13101824)
393644.07	3870966.43	0.35210b	(13101824)
393634.58	3870943.40	0.36091b	(13101824)
393625.10	3870920.37	0.42341b	(13101724)

	393615.61	3870897.33	0.42628b (13101724)
393606.12	3870874.30	0.42817b (13101724)	
	393596.63	3870851.27	0.42879b (13101724)
393587.14	3870828.23	0.42811b (13101724)	
	393577.65	3870805.20	0.42593b (13101724)
393568.16	3870782.17	0.42245b (13101724)	
	393558.67	3870759.13	0.41706b (13101724)
393549.18	3870736.10	0.40898b (13101724)	
	393539.69	3870713.07	0.39867b (13101724)
393530.20	3870690.03	0.38770b (13101724)	
	393520.71	3870667.00	0.38192b (13101824)
393511.22	3870643.97	0.37550b (13101824)	
	393501.73	3870620.93	0.36878b (13101824)
393492.24	3870597.90	0.36150b (13101824)	
	393482.75	3870574.86	0.35320b (13101824)
393473.26	3870551.83	0.34361b (13101824)	
	393463.77	3870528.80	0.33276b (13101824)
393454.29	3870505.76	0.32130b (13101824)	
	393444.80	3870482.73	0.30956b (13101824)
393435.31	3870459.70	0.29765b (13101824)	
	393425.82	3870436.66	0.28564b (13101824)
393416.33	3870413.63	0.27722b (13121724)	
	393406.84	3870390.60	0.29948b (13121724)
393397.35	3870367.56	0.32241b (13121724)	
	393387.86	3870344.53	0.34585b (13121724)
393378.37	3870321.50	0.36962b (13121724)	
	393368.88	3870298.46	0.39301b (13121724)
393359.39	3870275.43	0.41509b (13121724)	
	393349.90	3870252.40	0.43539b (13121724)
393340.41	3870229.36	0.45514b (13121724)	
	393330.92	3870206.33	0.38045b (13121724)
393321.43	3870183.30	0.39471b (13121724)	
	393311.94	3870160.26	0.40796b (13121724)
393302.45	3870137.23	0.42013b (13121724)	
	393292.96	3870114.20	0.43116b (13121724)
393283.47	3870091.16	0.44099b (13121724)	
	393273.99	3870068.13	0.44956b (13121724)
393264.50	3870045.10	0.45685b (13121724)	
	393255.01	3870022.06	0.59173b (13121724)
393245.52	3869999.03	0.60031b (13121724)	
	393236.03	3869976.00	0.60844b (13121724)
395826.41	3872559.52	0.44414b (12020824)	
	395851.36	3872559.52	0.41669b (12020824)
395876.30	3872559.52	0.39593b (12020824)	
	395901.25	3872559.52	0.39160b (12020824)
395926.19	3872559.52	0.40473b (12020824)	
	395951.14	3872559.53	0.42333b (12020824)
395976.08	3872559.53	0.44338b (12020824)	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           10/09/17
*** AERMET - VERSION 14134 ***   ***
***           18:08:39

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PAGE 181

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*** MODELOPTs:   RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396001.03	3872559.53	0.46789b	(12020824)	
396025.97	3872559.53	0.49259b	(12020824)	
396050.92	3872559.53	0.51369b	(12020824)	
396075.86	3872559.53	0.52790b	(12020824)	
396100.81	3872559.53	0.53279b	(12020824)	
396125.75	3872559.53	0.53653b	(12020824)	
396150.70	3872559.53	0.53559b	(12020824)	
396175.64	3872559.54	0.53451b	(12020824)	
396200.59	3872559.54	0.53279b	(12020824)	
396225.53	3872559.54	0.52890b	(12020824)	
396250.47	3872559.54	0.52870c	(11121524)	
396275.42	3872559.54	0.57221c	(11121524)	
396300.36	3872559.54	0.61445c	(11121524)	
396325.31	3872559.54	0.80623b	(13020524)	
396350.25	3872559.54	1.07567b	(13020524)	
396375.20	3872559.54	1.30749b	(13020524)	
396400.14	3872559.55	1.38186b	(13020524)	
396425.09	3872559.55	1.56021b	(13020524)	
396450.03	3872559.55	1.71984b	(13020524)	
396474.98	3872559.55	1.88718b	(13020524)	
396499.92	3872559.55	2.06017b	(13020524)	
396524.87	3872559.55	2.17412b	(13020524)	
396549.81	3872559.55	2.08717b	(13020524)	
396574.76	3872559.55	1.96202b	(13020524)	
396599.70	3872559.55	1.76036b	(13020524)	
396624.65	3872559.56	1.68060b	(13020524)	
396649.59	3872559.56	1.92213b	(13020524)	
396674.53	3872559.56	2.46241b	(13020524)	
396699.48	3872559.56	2.73707b	(13020524)	
396724.42	3872559.56	2.87008b	(13020524)	
396749.54	3869959.56	11.58910b	(13020124)	
396749.54	3869934.67	11.34855b	(13020124)	

	396749.54	3869909.78	11.21222b (13020124)
396749.54	3869884.88	11.21781b (13121624)	
	396749.54	3869859.99	11.61217b (13121624)
396749.53	3869835.10	11.84316b (13121624)	
	396749.53	3869810.21	11.97596b (13121624)
396749.53	3869785.32	12.05131b (13121624)	
	396749.53	3869760.43	12.09319b (13121624)
396749.53	3869735.54	11.97172b (13121624)	
	396749.53	3869710.64	11.72015b (13121624)
396749.53	3869685.75	11.72609b (13121624)	
	396749.53	3869660.86	11.72621b (13121624)
396749.53	3869635.97	11.72677b (13121624)	
	396749.52	3869611.08	11.72619b (13121624)
396749.52	3869586.19	11.64941b (13121624)	
	396749.52	3869561.30	11.48062b (13121624)
396749.52	3869536.41	11.39114b (13121624)	
	396749.52	3869511.51	11.38169b (13121624)
396749.52	3869486.62	11.37377b (13121624)	
	396749.52	3869461.73	11.36502b (13121624)
396749.52	3869436.84	11.35529b (13121624)	
	396749.52	3869411.95	11.32016b (13121624)
396749.51	3869387.06	11.15493b (13121624)	
	396749.51	3869362.17	11.10908b (13011424)
396749.51	3869337.27	11.11141b (13011424)	
	396749.51	3869312.38	11.12846b (13011424)
396749.51	3869287.49	11.39403b (12120724)	
	396749.51	3869262.60	11.70809b (12120724)
396749.51	3869237.71	11.99533b (12120724)	
	396749.51	3869212.82	12.25450b (12120724)
396749.51	3869187.93	12.48489b (12120724)	
	396749.50	3869163.03	12.68602b (12120724)
396749.50	3869138.14	12.85855b (12120724)	
	396749.50	3869113.25	13.00512b (12120724)
396749.50	3869088.36	13.32687b (13010324)	
	396749.50	3869063.47	13.64942b (13010324)
396767.22	3869977.24	11.79187b (13020124)	
	396774.54	3869934.67	10.96697b (13020124)
396774.54	3869909.77	10.79879b (13020124)	
	396774.54	3869884.88	11.13290b (13121624)
396774.54	3869859.99	11.39723b (13121624)	
	396774.53	3869835.10	11.63548b (13121624)
396774.53	3869810.21	11.77478b (13121624)	
	396774.53	3869785.32	11.85461b (13121624)
396774.53	3869760.43	11.89927b (13121624)	
	396774.53	3869735.54	11.78069b (13121624)
396774.53	3869710.64	11.53248b (13121624)	
	396774.53	3869685.75	11.53898b (13121624)
396774.53	3869660.86	11.54202b (13121624)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 182

*** MODELOPTs: RegDFault CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
396774.53	3869635.97	11.54246b (13121624)	
396774.52	3869611.08	11.54152b (13121624)	
396774.52	3869586.19	11.43073b (13121624)	
396774.52	3869561.30	11.21025b (13121624)	
396774.52	3869536.40	11.20661b (13121624)	
396774.52	3869511.51	11.20221b (13121624)	
396774.52	3869486.62	11.19652b (13121624)	
396774.52	3869461.73	11.18973b (13121624)	
396774.52	3869436.84	11.14097b (13121624)	
396774.52	3869411.95	11.01581b (13121624)	
396774.51	3869387.06	10.92779b (13011424)	
396774.51	3869362.16	10.96664b (13011424)	
396774.51	3869337.27	10.99951b (13011424)	
396774.51	3869312.38	11.02173b (13011424)	
396774.51	3869287.49	11.11663b (12120724)	
396774.51	3869262.60	11.44709b (12120724)	
396774.51	3869237.71	11.75312b (12120724)	
396774.51	3869212.82	12.03418b (12120724)	
396774.51	3869187.92	12.22666b (12120724)	
396774.50	3869163.03	12.40543b (12120724)	
396774.50	3869138.14	12.60551b (12120724)	
396774.50	3869113.25	12.83222b (13010324)	
396774.50	3869088.36	13.17756b (13010324)	
396792.22	3869977.24	11.30650b (13020124)	
396759.89	3870019.92	12.18471b (13020124)	
396799.54	3869934.67	10.51461b (13020124)	
396799.54	3869909.77	10.31752b (13121624)	
396799.54	3869884.88	10.97998b (13121624)	
396799.54	3869859.99	11.20396b (13121624)	
396799.53	3869835.10	11.44968b (13121624)	
396799.53	3869810.21	11.59444b (13121624)	
396799.53	3869785.32	11.67847b (13121624)	

	396799.53	3869760.43	11.72626b (13121624)
396799.53	3869735.53	11.61029b (13121624)	
	396799.53	3869710.64	11.36254b (13121624)
396799.53	3869685.75	11.36976b (13121624)	
	396799.53	3869660.86	11.37292b (13121624)
396799.53	3869635.97	11.37387b (13121624)	
	396799.52	3869611.08	11.31572b (13121624)
396799.52	3869586.19	11.18448b (13121624)	
	396799.52	3869561.29	11.03905b (13121624)
396799.52	3869536.40	11.03565b (13121624)	
	396799.52	3869511.51	11.03136b (13121624)
396799.52	3869486.62	10.96551b (13121624)	
	396799.52	3869461.73	10.92505b (13121624)
396799.52	3869436.84	10.86287b (13121624)	
	396799.52	3869411.95	10.73444b (13121624)
396799.51	3869387.05	10.76190b (13011424)	
	396799.51	3869362.16	10.81687b (13011424)
396799.51	3869337.27	10.85632b (13011424)	
	396799.51	3869312.38	10.88423b (13011424)
396799.51	3869287.49	10.90278b (13011424)	
	396799.51	3869262.60	11.20265b (12120724)
396799.51	3869237.71	11.52590b (12120724)	
	396799.51	3869212.81	11.77429b (12120724)
396799.51	3869187.92	11.95985b (12120724)	
	396799.50	3869163.03	12.15714b (12120724)
396799.50	3869138.14	12.37248b (12120724)	
	396799.50	3869113.25	12.57871b (13010324)
396799.50	3869088.36	12.92878b (13010324)	
	396799.50	3869063.47	13.26654b (13010324)
396817.22	3869977.23	10.58397b (13020124)	
	396802.57	3870012.59	11.35883b (13020124)
396777.57	3870037.59	11.93322b (13020124)	
	396824.54	3869934.66	9.94009b (13020124)
396824.54	3869909.77	10.03528b (13121624)	
	396824.54	3869884.88	10.56939b (13121624)
396824.54	3869859.99	10.98951b (13121624)	
	396824.53	3869835.10	11.24284b (13121624)
396824.53	3869810.21	11.39327b (13121624)	
	396824.53	3869785.32	11.48144b (13121624)
396824.53	3869760.42	11.49740b (13121624)	
	396824.53	3869735.53	11.37530b (13121624)
396824.53	3869710.64	11.17499b (13121624)	
	396824.53	3869685.75	11.18299b (13121624)
396824.53	3869660.86	11.18670b (13121624)	
	396824.53	3869635.97	11.14798b (13121624)
396824.52	3869611.08	10.99011b (13121624)	
	396824.52	3869586.18	10.85398b (13121624)
396824.52	3869561.29	10.85129b (13121624)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 183

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396824.52	3869536.40	10.84763b	(13121624)	
396824.52	3869511.51	10.80473b	(13121624)	
396824.52	3869486.62	10.64547b	(13121624)	
396824.52	3869461.73	10.56094b	(13121624)	
396824.52	3869436.84	10.55239b	(13121624)	
396824.52	3869411.94	10.54153b	(13121624)	
396824.51	3869387.05	10.57551b	(13011424)	
396824.51	3869362.16	10.63949b	(13011424)	
396824.51	3869337.27	10.68647b	(13011424)	
396824.51	3869312.38	10.72037b	(13011424)	
396824.51	3869287.49	10.74382b	(13011424)	
396824.51	3869262.60	10.91212b	(12120724)	
396824.51	3869237.71	11.22070b	(12120724)	
396824.51	3869212.81	11.42067b	(12120724)	
396824.51	3869187.92	11.67495b	(12120724)	
396824.50	3869163.03	11.93521b	(12120724)	
396824.50	3869138.14	12.17028b	(12120724)	
396824.50	3869113.25	12.38046b	(12120724)	
396824.50	3869088.36	12.64980b	(13010324)	
396865.75	3869980.77	9.16712b	(13020124)	
396856.97	3870001.98	9.69096b	(13020124)	
396848.18	3870023.20	10.27525b	(13020124)	
396839.39	3870044.41	10.66537b	(13020124)	
396809.39	3870074.41	11.37903b	(13020124)	
396788.18	3870083.20	11.58393b	(13020124)	
396766.96	3870091.99	11.73857b	(13020124)	
396745.75	3870100.77	11.77206b	(13020124)	
396874.54	3869959.55	8.75850b	(13020124)	
396874.54	3869934.66	8.52200b	(13020124)	
396874.54	3869909.77	9.38869b	(13121624)	
396874.54	3869884.88	10.08755b	(13121624)	
396874.54	3869859.99	10.52316b	(13121624)	

	396874.53	3869835.10	10.79004b (13121624)
396874.53	3869810.20	10.95184b (13121624)	
	396874.53	3869785.31	11.04846b (13121624)
396874.53	3869760.42	10.91001b (13121624)	
	396874.53	3869735.53	10.75848b (13121624)
396874.53	3869710.64	10.77636b (13121624)	
	396874.53	3869685.75	10.78596b (13121624)
396874.53	3869660.86	10.56121b (13121624)	
	396874.53	3869635.97	10.48184b (13121624)
396874.52	3869611.07	10.46344b (13121624)	
	396874.52	3869586.18	10.46183b (13121624)
396874.52	3869561.29	10.42346b (13121624)	
	396874.52	3869536.40	10.22918b (13121624)
396874.52	3869511.51	10.18362b (13121624)	
	396874.52	3869486.62	10.17033b (13121624)
396874.52	3869461.73	10.16323b (13121624)	
	396874.52	3869436.83	10.15416b (13121624)
396874.52	3869411.94	10.14246b (13121624)	
	396874.51	3869387.05	10.14611b (13011424)
396874.51	3869362.16	10.23003b (13011424)	
	396874.51	3869337.27	10.29401b (13011424)
396874.51	3869312.38	10.34186b (13011424)	
	396874.51	3869287.49	10.37679b (13011424)
396874.51	3869262.59	10.37528b (13011424)	
	396874.51	3869237.70	10.41909b (12120724)
396874.51	3869212.81	10.74089b (12120724)	
	396874.51	3869187.92	11.05337b (12120724)
396874.50	3869163.03	11.34549b (12120724)	
	396874.50	3869138.14	11.61543b (12120724)
396874.50	3869113.25	11.86198b (12120724)	
	396874.50	3869088.35	12.08507b (12120724)
396874.50	3869063.46	12.28406b (12120724)	
	396916.17	3869979.76	7.98041b (13020124)
396899.43	3870020.16	8.73176b (13020124)	
	396882.70	3870060.57	9.59272b (13020124)
396845.76	3870109.35	10.75005b (13020124)	
	396805.35	3870126.09	11.31990b (13020124)
396764.94	3870142.82	11.27318b (13020124)	
	396924.54	3869934.66	7.91701b (13121624)
396924.54	3869909.77	8.91049b (13121624)	
	396924.54	3869884.88	9.60138b (13121624)
396924.54	3869859.99	10.04876b (13121624)	
	396924.53	3869835.09	10.32889b (13121624)
396924.53	3869810.20	10.50146b (13121624)	
	396924.53	3869785.31	10.37296b (13121624)
396924.53	3869760.42	10.32340b (13121624)	
	396924.53	3869735.53	10.35939b (13121624)
396924.53	3869710.64	10.35350b (13121624)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 184

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396924.53	3869685.75	10.22914b	(13121624)	
396924.53	3869660.85	10.10898b	(13121624)	
396924.53	3869635.96	10.08462b	(13121624)	
396924.52	3869611.07	10.08481b	(13121624)	
396924.52	3869586.18	9.99408b	(13121624)	
396924.52	3869561.29	9.80773b	(13121624)	
396924.52	3869536.40	9.80417b	(13121624)	
396924.52	3869511.51	9.79955b	(13121624)	
396924.52	3869486.61	9.79374b	(13121624)	
396924.52	3869461.72	9.78629b	(13121624)	
396924.52	3869436.83	9.77694b	(13121624)	
396924.52	3869411.94	9.76459b	(13121624)	
396924.51	3869387.05	9.74774b	(13121624)	
396924.51	3869362.16	9.80013b	(13011424)	
396924.51	3869337.27	9.88336b	(13011424)	
396924.51	3869312.37	9.94745b	(13011424)	
396924.51	3869287.48	9.92594b	(13011424)	
396924.51	3869262.59	9.78901b	(13011424)	
396924.51	3869237.70	9.81458b	(13011424)	
396924.51	3869212.81	9.97836b	(12120724)	
396924.51	3869187.92	10.31184b	(12120724)	
396924.50	3869163.03	10.62864b	(12120724)	
396924.50	3869138.14	10.92654b	(12120724)	
396924.50	3869113.24	11.20469b	(12120724)	
396924.50	3869088.35	11.46106b	(12120724)	
396924.50	3869063.46	11.62906b	(12120724)	
396965.39	3869981.65	6.92235b	(13020124)	
396956.23	3870003.75	7.32194b	(13020124)	
396947.08	3870025.84	7.72042b	(13020124)	
396937.93	3870047.94	8.13154b	(13020124)	
396928.78	3870070.04	8.67553b	(13020124)	
396919.62	3870092.14	9.10145b	(13020124)	

396910.47	3870114.24	9.46237b	(13020124)
396879.22	3870145.49	10.26507b	(13020124)
396857.12	3870154.64	10.64030b	(13020124)
396835.02	3870163.80	10.86954b	(13020124)
396812.92	3870172.95	10.88941b	(13020124)
396790.82	3870182.10	10.79872b	(13020124)
396768.73	3870191.25	10.64703b	(13020124)
396746.63	3870200.41	10.46331b	(13020124)
396974.54	3869959.55	6.52187b	(13020124)
396974.54	3869934.66	7.54449b	(13121624)
396974.54	3869909.77	8.46650b	(13121624)
396974.54	3869884.87	9.13783b	(13121624)
396974.54	3869859.98	9.59087b	(13121624)
396974.53	3869835.09	9.87937b	(13121624)
396974.53	3869810.20	9.80778b	(13121624)
396974.53	3869785.31	9.87008b	(13121624)
396974.53	3869760.42	9.93731b	(13121624)
396974.53	3869735.53	9.95911b	(13121624)
396974.53	3869710.63	9.91003b	(13121624)
396974.53	3869685.74	9.72239b	(13121624)
396974.53	3869660.85	9.72638b	(13121624)
396974.53	3869635.96	9.72943b	(13121624)
396974.52	3869611.07	9.59887b	(13121624)
396974.52	3869586.18	9.46444b	(13121624)
396974.52	3869561.29	9.46223b	(13121624)
396974.52	3869536.40	9.45865b	(13121624)
396974.52	3869511.50	9.45411b	(13121624)
396974.52	3869486.61	9.44838b	(13121624)
396974.52	3869461.72	9.44101b	(13121624)
396974.52	3869436.83	9.43137b	(13121624)
396974.52	3869411.94	9.41840b	(13121624)
396974.51	3869387.05	9.40043b	(13121624)
396974.51	3869362.16	9.37442b	(13121624)
396974.51	3869337.26	9.47415b	(13011424)
396974.51	3869312.37	9.53855b	(13011424)
396974.51	3869287.48	9.52186b	(13011424)
396974.51	3869262.59	9.42765b	(13011424)
396974.51	3869237.70	9.46400b	(13011424)
396974.51	3869212.81	9.49092b	(13011424)
396974.51	3869187.92	9.51432b	(12120724)
396974.50	3869163.02	9.83797b	(12120724)
396974.50	3869138.13	10.10959b	(12120724)
396974.50	3869113.24	10.32215b	(12120724)
396974.50	3869088.35	10.59966b	(12120724)
396974.50	3869063.46	10.85759b	(12120724)
397049.00	3869980.97	5.66646b	(13123124)
397040.12	3870002.40	5.74437b	(13123124)
397031.25	3870023.83	6.10663b	(13020124)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 185

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF ALL	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
397022.37	3870045.26	6.48350b	(13020124)	
397013.50	3870066.69	6.85533b	(13020124)	
397004.62	3870088.12	7.22600b	(13020124)	
396995.74	3870109.55	7.59356b	(13020124)	
396986.87	3870130.98	7.95431b	(13020124)	
396977.99	3870152.40	8.30166b	(13020124)	
396969.12	3870173.83	8.62298b	(13020124)	
396938.81	3870204.14	9.35016b	(13020124)	
396917.38	3870213.01	9.76815b	(13020124)	
396895.96	3870221.89	10.00993b	(13020124)	
396874.53	3870230.76	10.12449b	(13020124)	
396853.10	3870239.64	10.13743b	(13020124)	
396831.67	3870248.52	10.07007b	(13020124)	
396810.24	3870257.39	9.95558b	(13020124)	
396788.81	3870266.27	9.80396b	(13020124)	
396767.38	3870275.14	9.61430b	(13020124)	
396745.95	3870284.02	9.41036b	(13020124)	
397057.87	3869959.55	6.03633b	(13121624)	
397057.87	3869934.65	7.00683b	(13121624)	
397057.87	3869909.76	7.81918b	(13121624)	
397057.87	3869884.87	8.44503b	(13121624)	
397057.87	3869859.98	8.89291b	(13121624)	
397057.87	3869835.09	9.19514b	(13121624)	
397057.87	3869810.20	9.18383b	(13121624)	
397057.87	3869785.31	9.26699b	(13121624)	
397057.86	3869760.41	9.22373b	(13121624)	
397057.86	3869735.52	9.14614b	(13121624)	
397057.86	3869710.63	9.16410b	(13121624)	
397057.86	3869685.74	9.18038b	(13121624)	
397057.86	3869660.85	8.99863b	(13121624)	
397057.86	3869635.96	8.95611b	(13121624)	
397057.86	3869611.07	8.95300b	(13121624)	

397057.86	3869586.17	8.95264b	(13121624)
397057.86	3869561.28	8.95094b	(13121624)
397057.85	3869536.39	8.94810b	(13121624)
397057.85	3869511.50	8.94412b	(13121624)
397057.85	3869486.61	8.93875b	(13121624)
397057.85	3869461.72	8.93151b	(13121624)
397057.85	3869436.83	8.92163b	(13121624)
397057.85	3869411.93	8.90769b	(13121624)
397057.85	3869387.04	8.88748b	(13121624)
397057.85	3869362.15	8.85763b	(13121624)
397057.85	3869337.26	8.81321b	(13121624)
397057.84	3869312.37	8.81098b	(13011424)
397057.84	3869287.48	8.77901b	(13011424)
397057.84	3869262.59	8.85328b	(13011424)
397057.84	3869237.69	8.91170b	(13011424)
397057.84	3869212.80	8.95732b	(13011424)
397057.84	3869187.91	8.87582b	(13011424)
397057.84	3869163.02	8.81948b	(13011424)
397057.84	3869138.13	8.83319b	(13011424)
397057.84	3869113.24	9.03044b	(12120724)
397057.83	3869088.35	9.34075b	(12120724)
397057.83	3869063.46	9.63650b	(12120724)
397131.82	3869982.21	5.30419b	(13123124)
397122.43	3870004.87	5.34531b	(13123124)
397113.04	3870027.54	5.38008b	(13123124)
397103.66	3870050.20	5.40063b	(13123124)
397094.27	3870072.87	5.39120b	(13123124)
397084.88	3870095.53	5.66163b	(13020124)
397075.49	3870118.20	6.06055b	(13020124)
397066.11	3870140.86	6.45959b	(13020124)
397056.72	3870163.53	6.84823b	(13020124)
397047.33	3870186.19	7.20605b	(13020124)
397037.94	3870208.86	7.55066b	(13020124)
397028.56	3870231.52	7.87151b	(13020124)
396996.50	3870263.58	8.59698b	(13020124)
396973.84	3870272.96	9.00929b	(13020124)
396951.17	3870282.35	9.27139b	(13020124)
396928.51	3870291.74	9.42975b	(13020124)
396905.84	3870301.13	9.49194b	(13020124)
396883.18	3870310.51	9.46967b	(13020124)
396860.51	3870319.90	9.39166b	(13020124)
396837.85	3870329.29	9.24949b	(13020124)
396815.18	3870338.68	9.07767b	(13020124)
396792.52	3870348.06	8.88148b	(13020124)
396769.85	3870357.45	8.66477b	(13020124)
396747.19	3870366.84	8.42966b	(13020124)
397141.21	3869959.54	5.71687b	(13121624)
397141.21	3869934.65	6.55494b	(13121624)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           10/09/17
*** AERMET - VERSION 14134 ***   ***
***           18:08:39

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PAGE 186

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*** MODELOPTs:    RegDEFAULT CONC ELEV RURAL
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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL    IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
397141.20	3869909.76	7.20957b	(13121624)	
397141.20	3869884.87	7.71589b	(13121624)	
397141.20	3869859.98	8.13132b	(13121624)	
397141.20	3869835.08	8.38370b	(13121624)	
397141.20	3869810.19	8.46029b	(13121624)	
397141.20	3869785.30	8.52915b	(13121624)	
397141.20	3869760.41	8.59524b	(13121624)	
397141.20	3869735.52	8.59676b	(13121624)	
397141.20	3869710.63	8.51531b	(13121624)	
397141.19	3869685.74	8.48638b	(13121624)	
397141.19	3869660.84	8.49795b	(13121624)	
397141.19	3869635.95	8.50425b	(13121624)	
397141.19	3869611.06	8.50728b	(13121624)	
397141.19	3869586.17	8.50815b	(13121624)	
397141.19	3869561.28	8.50736b	(13121624)	
397141.19	3869536.39	8.50533b	(13121624)	
397141.19	3869511.50	8.50192b	(13121624)	
397141.19	3869486.61	8.49691b	(13121624)	
397141.18	3869461.71	8.48971b	(13121624)	
397141.18	3869436.82	8.47907b	(13121624)	
397141.18	3869411.93	8.46333b	(13121624)	
397141.18	3869387.04	8.43987b	(13121624)	
397141.18	3869362.15	8.24530b	(13121624)	
397141.18	3869337.26	8.15082b	(13121624)	
397141.18	3869312.37	8.07515b	(13121624)	
397141.18	3869287.47	8.19331b	(13011424)	
397141.18	3869262.58	8.28309b	(13011424)	
397141.17	3869237.69	8.24953b	(13011424)	
397141.17	3869212.80	8.26845b	(13011424)	
397141.17	3869187.91	8.30931b	(13011424)	
397141.17	3869163.02	8.35154b	(13011424)	
397141.17	3869138.13	8.38440b	(13011424)	

397141.17	3869113.23	8.40963b	(13011424)
397141.17	3869088.34	8.42804b	(13011424)
397141.17	3869063.45	8.43933b	(13011424)
397215.39	3869981.64	4.98042b	(13123124)
397206.23	3870003.73	5.02195b	(13123124)
397197.08	3870025.83	5.05912b	(13123124)
397187.93	3870047.93	5.08997b	(13123124)
397178.78	3870070.03	5.10918b	(13123124)
397169.62	3870092.13	5.10722b	(13123124)
397160.47	3870114.23	5.06970b	(13123124)
397151.32	3870136.33	4.98189b	(13123124)
397142.16	3870158.42	5.20813b	(13020124)
397133.01	3870180.52	5.54261b	(13020124)
397123.86	3870202.62	5.87534b	(13020124)
397114.71	3870224.72	6.22090b	(13020124)
397105.55	3870246.82	6.61384b	(13020124)
397096.40	3870268.92	6.94259b	(13020124)
397087.25	3870291.01	7.23857b	(13020124)
397055.99	3870322.27	7.97307b	(13020124)
397033.90	3870331.42	8.30034b	(13020124)
397011.80	3870340.57	8.56793b	(13020124)
396989.70	3870349.73	8.76989b	(13020124)
396967.60	3870358.88	8.89624b	(13020124)
396945.50	3870368.03	8.93876b	(13020124)
396923.40	3870377.18	8.91296b	(13020124)
396901.31	3870386.34	8.83446b	(13020124)
396879.21	3870395.49	8.71277b	(13020124)
396857.11	3870404.64	8.55844b	(13020124)
396835.01	3870413.80	8.37852b	(13020124)
396812.91	3870422.95	8.17844b	(13020124)
396790.81	3870432.10	7.96031b	(13020124)
396768.71	3870441.25	7.72515b	(13020124)
396746.62	3870450.41	7.48768b	(13120224)
397224.54	3869959.54	5.32559b	(13121624)
397224.54	3869934.65	6.03740b	(13121624)
397224.54	3869909.75	6.64035b	(13121624)
397224.54	3869884.86	7.11398b	(13121624)
397224.54	3869859.97	7.47826b	(13121624)
397224.53	3869835.08	7.77312b	(13121624)
397224.53	3869810.19	7.93612b	(13121624)
397224.53	3869785.30	8.06951b	(13121624)
397224.53	3869760.41	8.13605b	(13121624)
397224.53	3869735.52	8.16695b	(13121624)
397224.53	3869710.62	8.20617b	(13121624)
397224.53	3869685.73	8.23072b	(13121624)
397224.53	3869660.84	8.24567b	(13121624)
397224.53	3869635.95	8.21760b	(13121624)
397224.52	3869611.06	8.20119b	(13121624)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   10/09/17
*** AERMET - VERSION 14134 ***   ***
***   18:08:39

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PAGE 187

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
397224.52	3869586.17	8.18600b	(13121624)	
397224.52	3869561.28	8.14397b	(13121624)	
397224.52	3869536.38	8.14263b	(13121624)	
397224.52	3869511.49	8.09382b	(13121624)	
397224.52	3869486.60	8.07735b	(13121624)	
397224.52	3869461.71	8.04299b	(13121624)	
397224.52	3869436.82	7.99892b	(13121624)	
397224.52	3869411.93	7.97476b	(13121624)	
397224.51	3869387.04	7.90089b	(13121624)	
397224.51	3869362.14	7.85569b	(13121624)	
397224.51	3869337.25	7.76249b	(13121624)	
397224.51	3869312.36	7.65168b	(13121624)	
397224.51	3869287.47	7.59258b	(13011424)	
397224.51	3869262.58	7.72482b	(13011424)	
397224.51	3869237.69	7.79109b	(13011424)	
397224.51	3869212.80	7.88196b	(13011424)	
397224.51	3869187.90	7.95990b	(13011424)	
397224.50	3869163.01	8.03482b	(13011424)	
397224.50	3869138.12	8.10304b	(13011424)	
397224.50	3869113.23	8.14344b	(13011424)	
397224.50	3869088.34	8.17468b	(13011424)	
397224.50	3869063.45	8.17646b	(13011424)	
397465.39	3869981.63	4.21038b	(13121624)	
397456.23	3870003.72	4.15114b	(13123124)	
397447.08	3870025.82	4.21223b	(13123124)	
397437.93	3870047.92	4.26952b	(13123124)	
397428.78	3870070.02	4.31048b	(13123124)	
397419.62	3870092.12	4.35369b	(13123124)	
397410.47	3870114.22	4.38769b	(13123124)	
397401.32	3870136.31	4.40652b	(13123124)	
397392.16	3870158.41	4.42287b	(13123124)	
397383.01	3870180.51	4.41251b	(13123124)	

397364.71	397373.86	3870202.61	4.37526b (13123124)
	3870224.71	4.31318b (13123124)	
	397355.55	3870246.81	4.20693b (13123124)
397346.40	3870268.91	4.06109b (13123124)	
	397337.25	3870291.00	3.88160b (13123124)
397328.09	3870313.10	3.74748b (13020124)	
	397318.94	3870335.20	4.04528b (13020124)
397309.79	3870357.30	4.34566b (13020124)	
	397300.63	3870379.40	4.64494b (13020124)
397291.48	3870401.50	4.93301b (13020124)	
	397282.33	3870423.59	5.22125b (13020124)
397273.18	3870445.69	5.50013b (13020124)	
	397264.02	3870467.79	5.77058b (13020124)
397232.77	3870499.04	6.34013b (13020124)	
	397210.67	3870508.20	6.63385b (13020124)
397188.57	3870517.35	6.90335b (13020124)	
	397166.48	3870526.50	7.13663b (13020124)
397144.38	3870535.65	7.33093b (13020124)	
	397122.28	3870544.81	7.46883b (13020124)
397100.18	3870553.96	7.55961b (13020124)	
	397078.08	3870563.11	7.60062b (13020124)
397055.98	3870572.27	7.59440b (13020124)	
	397033.89	3870581.42	7.54582b (13020124)
397011.79	3870590.57	7.45967b (13020124)	
	396989.69	3870599.73	7.34144b (13020124)
396967.59	3870608.88	7.19635b (13020124)	
	396945.49	3870618.03	7.02834b (13020124)
396923.39	3870627.18	6.84095b (13020124)	
	396901.29	3870636.34	6.63657b (13120224)
396879.20	3870645.49	6.52105b (13120224)	
	396857.10	3870654.64	6.39855b (13120224)
396835.00	3870663.80	6.26045b (13120224)	
	396812.90	3870672.95	6.10797b (13120224)
396790.80	3870682.10	5.93714b (13120224)	
	396768.70	3870691.25	5.89710b (13020524)
396746.61	3870700.41	6.18919b (13020524)	
	397474.54	3869959.53	4.67592b (13121624)
397474.54	3869934.64	5.17451b (13121624)	
	397474.54	3869909.74	5.61592b (13121624)
397474.54	3869884.85	6.00183b (13121624)	
	397474.54	3869859.96	6.32563b (13121624)
397474.53	3869835.07	6.56330b (13121624)	
	397474.53	3869810.18	6.77086b (13121624)
397474.53	3869785.29	6.90111b (13121624)	
	397474.53	3869760.40	6.98421b (13121624)
397474.53	3869735.50	7.04590b (13121624)	
	397474.53	3869710.61	7.09627b (13121624)
397474.53	3869685.72	7.13439b (13121624)	


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    10/09/17
*** AERMET - VERSION 14134 ***    ***
***    18:08:39

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PAGE 188

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*** MODELOPTs:    RegDEFAULT    CONC    ELEV    RURAL

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*** THE    1ST HIGHEST 24-HR AVERAGE
CONCENTRATION    VALUES FOR SOURCE GROUP:    ALL    ***
INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL    IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
397474.53	3869660.83	7.15974b	(13121624)	
397474.53	3869635.94	7.17618b	(13121624)	
397474.52	3869611.05	7.16716b	(13121624)	
397474.52	3869586.16	7.15064b	(13121624)	
397474.52	3869561.26	7.15272b	(13121624)	
397474.52	3869536.37	7.15158b	(13121624)	
397474.52	3869511.48	7.11922b	(13121624)	
397474.52	3869486.59	7.10197b	(13121624)	
397474.52	3869461.70	7.06936b	(13121624)	
397474.52	3869436.81	7.02229b	(13121624)	
397474.52	3869411.92	6.97860b	(13121624)	
397474.51	3869387.02	6.89734b	(13121624)	
397474.51	3869362.13	6.80295b	(13121624)	
397474.51	3869337.24	6.69974b	(13121624)	
397474.51	3869312.35	6.55958b	(13121624)	
397474.51	3869287.46	6.37683b	(13121624)	
397474.51	3869262.57	6.15970b	(13121624)	
397474.51	3869237.68	6.11273b	(13011424)	
397474.51	3869212.78	6.26106b	(13011424)	
397474.51	3869187.89	6.40626b	(13011424)	
397474.50	3869163.00	6.52471b	(13011424)	
397474.50	3869138.11	6.61040b	(13011424)	
397474.50	3869113.22	6.68168b	(13011424)	
397474.50	3869088.33	6.76775b	(13011424)	
397474.50	3869063.44	6.84000b	(13011424)	
397715.09	3869982.33	3.80306b	(13121624)	
397705.64	3870005.14	3.42977b	(13121624)	
397696.20	3870027.95	3.45532b	(13123124)	
397686.75	3870050.76	3.54375b	(13123124)	
397677.30	3870073.57	3.62850b	(13123124)	
397667.85	3870096.38	3.69882b	(13123124)	
397658.40	3870119.19	3.76006b	(13123124)	

	397648.95	3870142.01	3.81777b (13123124)
397639.51	3870164.82	3.86178b (13123124)	
	397630.06	3870187.63	3.89216b (13123124)
397620.61	3870210.44	3.91978b (13123124)	
	397611.16	3870233.25	3.93498b (13123124)
397601.71	3870256.06	3.93614b (13123124)	
	397592.27	3870278.87	3.91325b (13123124)
397582.82	3870301.69	3.87112b (13123124)	
	397573.37	3870324.50	3.80175b (13123124)
397563.92	3870347.31	3.70449b (13123124)	
	397554.47	3870370.12	3.57114b (13123124)
397545.02	3870392.93	3.41400b (13123124)	
	397535.58	3870415.74	3.23183b (13123124)
397526.13	3870438.55	3.02811b (13123124)	
	397516.68	3870461.36	2.80774b (13123124)
397507.23	3870484.18	2.87710b (13020124)	
	397497.78	3870506.99	3.12773b (13020124)
397488.34	3870529.80	3.38387b (13020124)	
	397478.89	3870552.61	3.63721b (13020124)
397469.44	3870575.42	3.89265b (13020124)	
	397459.99	3870598.23	4.14335b (13020124)
397450.54	3870621.04	4.38943b (13020124)	
	397441.09	3870643.86	4.62741b (13020124)
397408.84	3870676.11	5.14783b (13020124)	
	397386.02	3870685.56	5.42676b (13020124)
397363.21	3870695.01	5.68645b (13020124)	
	397340.40	3870704.46	5.92218b (13020124)
397317.59	3870713.91	6.13000b (13020124)	
	397294.78	3870723.36	6.30521b (13020124)
397271.97	3870732.80	6.44419b (13020124)	
	397249.16	3870742.25	6.54326b (13020124)
397226.34	3870751.70	6.60366b (13020124)	
	397203.53	3870761.15	6.62063b (13020124)
397180.72	3870770.60	6.60511b (13020124)	
	397157.91	3870780.04	6.55459b (13020124)
397135.10	3870789.49	6.47253b (13020124)	
	397112.29	3870798.94	6.36206b (13020124)
397089.48	3870808.39	6.22636b (13020124)	
	397066.67	3870817.84	6.06856b (13020124)
397043.85	3870827.29	5.90761b (13120224)	
	397021.04	3870836.73	5.83770b (13120224)
396998.23	3870846.18	5.74085b (13120224)	
	396975.42	3870855.63	5.62888b (13120224)
396952.61	3870865.08	5.50417b (13120224)	
	396929.80	3870874.53	5.36385b (13120224)
396906.99	3870883.97	5.20889b (13120224)	
	396884.17	3870893.42	5.03923b (13120224)
396861.36	3870902.87	4.85601b (13120224)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 189

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF ALL IN
 **

MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396838.55	3870912.32	4.65938b	(13120224)	
396815.74	3870921.77	4.87899b	(13020524)	
396792.93	3870931.22	5.17532b	(13020524)	
396770.12	3870940.66	5.41760b	(13020524)	
396747.31	3870950.11	5.61618b	(13020524)	
397724.54	3869959.52	4.15711b	(13121624)	
397724.54	3869934.62	4.53377b	(13121624)	
397724.54	3869909.73	4.88494b	(13121624)	
397724.54	3869884.84	5.20510b	(13121624)	
397724.54	3869859.95	5.48227b	(13121624)	
397724.53	3869835.06	5.71610b	(13121624)	
397724.53	3869810.17	5.88445b	(13121624)	
397724.53	3869785.28	6.03190b	(13121624)	
397724.53	3869760.38	6.15074b	(13121624)	
397724.53	3869735.49	6.24099b	(13121624)	
397724.53	3869710.60	6.30292b	(13121624)	
397724.53	3869685.71	6.32569b	(13121624)	
397724.53	3869660.82	6.35858b	(13121624)	
397724.53	3869635.93	6.38160b	(13121624)	
397724.52	3869611.04	6.38152b	(13121624)	
397724.52	3869586.14	6.37242b	(13121624)	
397724.52	3869561.25	6.37007b	(13121624)	
397724.52	3869536.36	6.33888b	(13121624)	
397724.52	3869511.47	6.32823b	(13121624)	
397724.52	3869486.58	6.31173b	(13121624)	
397724.52	3869461.69	6.27278b	(13121624)	
397724.52	3869436.80	6.21886b	(13121624)	
397724.52	3869411.90	6.16442b	(13121624)	
397724.51	3869387.01	6.07089b	(13121624)	
397724.51	3869362.12	5.98063b	(13121624)	
397724.51	3869337.23	5.84607b	(13121624)	
397724.51	3869312.34	5.68809b	(13121624)	

	397724.51	3869287.45	5.49969b (13121624)
397724.51	3869262.56	5.26066b (13121624)	
	397724.51	3869237.67	5.00208b (13121624)
397724.51	3869212.77	4.68499b (13121624)	
	397724.51	3869187.88	4.85840b (13011424)
397724.50	3869162.99	5.05790b (13011424)	
	397724.50	3869138.10	5.24679b (13011424)
397724.50	3869113.21	5.42072b (13011424)	
	397724.50	3869088.32	5.57677b (13011424)
397724.50	3869063.43	5.69195b (13011424)	
	398115.22	3869982.00	3.40073b (13121624)
398105.90	3870004.50	3.12996b (13121624)	
	398096.58	3870027.00	2.85475b (13121624)
398087.26	3870049.50	2.84295b (13020724)	
	398077.94	3870072.00	2.85901b (13020724)
398068.62	3870094.50	2.86646b (13020724)	
	398059.30	3870117.00	2.86920b (13020724)
398049.99	3870139.50	2.86262b (13020724)	
	398040.67	3870162.00	2.86813b (13123124)
398031.35	3870184.50	2.95747b (13123124)	
	398022.03	3870207.00	3.03807b (13123124)
398012.71	3870229.50	3.10840b (13123124)	
	398003.39	3870252.00	3.17166b (13123124)
397994.07	3870274.50	3.22693b (13123124)	
	397984.75	3870297.00	3.27507b (13123124)
397975.43	3870319.50	3.31419b (13123124)	
	397966.11	3870342.00	3.33968b (13123124)
397956.79	3870364.50	3.35471b (13123124)	
	397947.47	3870387.00	3.35807b (13123124)
397938.15	3870409.50	3.34805b (13123124)	
	397928.83	3870432.00	3.32271b (13123124)
397919.51	3870454.50	3.27998b (13123124)	
	397910.20	3870477.00	3.22117b (13123124)
397900.88	3870499.50	3.14139b (13123124)	
	397891.56	3870522.00	3.04221b (13123124)
397882.24	3870544.50	2.92633b (13123124)	
	397872.92	3870567.00	2.79215b (13123124)
397863.60	3870589.51	2.64308b (13123124)	
	397854.28	3870612.01	2.47892b (13123124)
397844.96	3870634.51	2.30541b (13123124)	
	397835.64	3870657.01	2.12640b (13123124)
397826.32	3870679.51	2.02578c (11011824)	
	397817.00	3870702.01	1.94804c (11011824)
397807.68	3870724.51	1.85977c (11011824)	
	397798.36	3870747.01	1.81425b (13020124)
397789.04	3870769.51	1.99358b (13020124)	
	397779.72	3870792.01	2.17779b (13020124)
397770.41	3870814.51	2.36759b (13020124)	

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 View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
 *** AERMET - VERSION 14134 *** ***
 *** 18:08:39

PAGE 190

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL IN	
		**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
397761.09	3870837.01	2.56007b	(13020124)
397751.77	3870859.51	2.75457b	(13020124)
397742.45	3870882.01	2.95055b	(13020124)
397733.13	3870904.51	3.14608b	(13020124)
397723.81	3870927.01	3.33913b	(13020124)
397691.99	3870958.83	3.76464b	(13020124)
397669.49	3870968.15	3.99689b	(13020124)
397646.99	3870977.47	4.22203b	(13020124)
397624.49	3870986.79	4.43696b	(13020124)
397601.99	3870996.11	4.63846b	(13020124)
397579.49	3871005.43	4.82472b	(13020124)
397556.99	3871014.74	4.99278b	(13020124)
397534.49	3871024.06	5.13951b	(13020124)
397511.99	3871033.38	5.26219b	(13020124)
397489.49	3871042.70	5.35941b	(13020124)
397466.99	3871052.02	5.43014b	(13020124)
397444.49	3871061.34	5.47523b	(13020124)
397421.99	3871070.66	5.49227b	(13020124)
397399.49	3871079.98	5.48484b	(13020124)
397376.99	3871089.30	5.45095b	(13020124)
397354.49	3871098.62	5.39190b	(13020124)
397331.98	3871107.94	5.31205b	(13020124)
397309.48	3871117.26	5.20975b	(13020124)
397286.98	3871126.58	5.08805b	(13020124)
397264.48	3871135.90	4.96520b	(13120224)
397241.98	3871145.22	4.94645b	(13120224)
397219.48	3871154.53	4.90769b	(13120224)
397196.98	3871163.85	4.84899b	(13120224)
397174.48	3871173.17	4.77267b	(13120224)
397151.98	3871182.49	4.67993b	(13120224)
397129.48	3871191.81	4.57207b	(13120224)
397106.98	3871201.13	4.44834b	(13120224)

397061.98	397084.48	3871210.45	4.30716b (13120224)
	3871219.77		4.15931b (13120224)
	397039.48	3871229.09	4.00175b (13120224)
397016.98	3871238.41		3.83404b (13120224)
	396994.48	3871247.73	3.65679b (13120224)
396971.98	3871257.05		3.47138b (13120224)
	396949.48	3871266.37	3.27215b (13120224)
396926.98	3871275.69		3.32123b (13020524)
	396904.48	3871285.01	3.59721b (13020524)
396881.98	3871294.32		3.85776b (13020524)
	396859.48	3871303.64	4.09913b (13020524)
396836.98	3871312.96		4.31832b (13020524)
	396814.48	3871322.28	4.51337b (13020524)
396791.98	3871331.60		4.68360b (13020524)
	396769.48	3871340.92	4.82877b (13020524)
396746.98	3871350.24		4.94973b (13020524)
	398124.54	3869959.50	3.65874b (13121624)
398124.54	3869934.61		3.94303b (13121624)
	398124.54	3869909.71	4.20260b (13121624)
398124.54	3869884.82		4.43978b (13121624)
	398124.54	3869859.93	4.65317b (13121624)
398124.53	3869835.04		4.82797b (13121624)
	398124.53	3869810.15	4.99081b (13121624)
398124.53	3869785.26		5.13451b (13121624)
	398124.53	3869760.37	5.25667b (13121624)
398124.53	3869735.48		5.35364b (13121624)
	398124.53	3869710.58	5.42411b (13121624)
398124.53	3869685.69		5.46285b (13121624)
	398124.53	3869660.80	5.49543b (13121624)
398124.53	3869635.91		5.49482b (13121624)
	398124.52	3869611.02	5.48666b (13121624)
398124.52	3869586.13		5.47623b (13121624)
	398124.52	3869561.24	5.45567b (13121624)
398124.52	3869536.34		5.42629b (13121624)
	398124.52	3869511.45	5.38716b (13121624)
398124.52	3869486.56		5.35152b (13121624)
	398124.52	3869461.67	5.30307b (13121624)
398124.52	3869436.78		5.23989b (13121624)
	398124.52	3869411.89	5.16397b (13121624)
398124.51	3869387.00		5.05460b (13121624)
	398124.51	3869362.10	4.94185b (13121624)
398124.51	3869337.21		4.79591b (13121624)
	398124.51	3869312.32	4.63111b (13121624)
398124.51	3869287.43		4.44970b (13121624)
	398124.51	3869262.54	4.24272b (13121624)
398124.51	3869237.65		4.00601b (13121624)
	398124.51	3869212.76	3.76134b (13121624)
398124.51	3869187.86		3.49368b (13121624)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 191

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
398124.50	3869162.97	3.20955b	(13121624)	
398124.50	3869138.08	3.02803b	(13011424)	
398124.50	3869113.19	3.24562b	(13011424)	
398124.50	3869088.30	3.47455b	(13011424)	
398124.50	3869063.41	3.69539b	(13011424)	
398515.13	3869982.21	3.05226b	(13121624)	
398505.71	3870004.94	2.84794b	(13121624)	
398496.30	3870027.67	2.63591b	(13121624)	
398486.88	3870050.40	2.42235b	(13121624)	
398477.47	3870073.13	2.41821b	(13020724)	
398468.05	3870095.86	2.44465b	(13020724)	
398458.64	3870118.59	2.46713b	(13020724)	
398449.22	3870141.32	2.48353b	(13020724)	
398439.81	3870164.05	2.49584b	(13020724)	
398430.40	3870186.78	2.49915b	(13020724)	
398420.98	3870209.51	2.49739b	(13020724)	
398411.57	3870232.24	2.48593b	(13020724)	
398402.15	3870254.97	2.46604b	(13020724)	
398392.74	3870277.70	2.43861b	(13020724)	
398383.32	3870300.43	2.40902b	(13123124)	
398373.91	3870323.16	2.49545b	(13123124)	
398364.49	3870345.89	2.57436b	(13123124)	
398355.08	3870368.62	2.64602b	(13123124)	
398345.67	3870391.35	2.71030b	(13123124)	
398336.25	3870414.08	2.76517b	(13123124)	
398326.84	3870436.81	2.80946b	(13123124)	
398317.42	3870459.54	2.84945b	(13123124)	
398308.01	3870482.27	2.87813b	(13123124)	
398298.59	3870505.00	2.89677b	(13123124)	
398289.18	3870527.73	2.90349b	(13123124)	
398279.76	3870550.46	2.89937b	(13123124)	
398270.35	3870573.19	2.88398b	(13123124)	

398260.94	3870595.92	2.85530b	(13123124)
398251.52	3870618.65	2.81373b	(13123124)
398242.11	3870641.38	2.75662b	(13123124)
398232.69	3870664.11	2.68475b	(13123124)
398223.28	3870686.84	2.59801b	(13123124)
398213.86	3870709.57	2.49794b	(13123124)
398204.45	3870732.30	2.38551b	(13123124)
398195.04	3870755.02	2.26065b	(13123124)
398185.62	3870777.75	2.12735b	(13123124)
398176.21	3870800.48	1.98856b	(13123124)
398166.79	3870823.21	1.86971c	(11011824)
398157.38	3870845.94	1.82808c	(11011824)
398147.96	3870868.67	1.77714c	(11011824)
398138.55	3870891.40	1.71692c	(11011824)
398129.13	3870914.13	1.64771c	(11011824)
398119.72	3870936.86	1.57138c	(11011824)
398110.31	3870959.59	1.48806c	(11011824)
398100.89	3870982.32	1.40042c	(11011824)
398091.48	3871005.05	1.30925c	(11011824)
398082.06	3871027.78	1.26943b	(13020124)
398072.65	3871050.51	1.40316b	(13020124)
398063.23	3871073.24	1.54189b	(13020124)
398053.82	3871095.97	1.68572b	(13020124)
398044.40	3871118.70	1.83425b	(13020124)
398034.99	3871141.43	1.98664b	(13020124)
398025.58	3871164.16	2.14203b	(13020124)
398016.16	3871186.89	2.29933b	(13020124)
398006.75	3871209.62	2.45750b	(13020124)
397974.60	3871241.77	2.80932b	(13020124)
397951.87	3871251.18	3.00361b	(13020124)
397929.14	3871260.60	3.19629b	(13020124)
397906.41	3871270.01	3.38541b	(13020124)
397883.68	3871279.42	3.56896b	(13020124)
397860.95	3871288.84	3.74461b	(13020124)
397838.22	3871298.25	3.91029b	(13020124)
397815.49	3871307.67	4.06407b	(13020124)
397792.76	3871317.08	4.20464b	(13020124)
397770.03	3871326.50	4.32917b	(13020124)
397747.30	3871335.91	4.43685b	(13020124)
397724.57	3871345.33	4.52527b	(13020124)
397701.84	3871354.74	4.59473b	(13020124)
397679.11	3871364.15	4.64368b	(13020124)
397656.38	3871373.57	4.67238b	(13020124)
397633.65	3871382.98	4.67965b	(13020124)
397610.92	3871392.40	4.66623b	(13020124)
397588.19	3871401.81	4.63174b	(13020124)
397565.46	3871411.23	4.57724b	(13020124)
397542.73	3871420.64	4.50639b	(13020124)


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***           10/09/17
*** AERMET - VERSION 14134 ***    ***
***          18:08:39

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PAGE 192

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
397520.01	3871430.06	4.41723b (13020124)	
397497.28	3871439.47	4.31324b (13020124)	
397474.55	3871448.88	4.23459b (13120224)	
397451.82	3871458.30	4.23916b (13120224)	
397429.09	3871467.71	4.22568b (13120224)	
397406.36	3871477.13	4.19487b (13120224)	
397383.63	3871486.54	4.14752b (13120224)	
397360.90	3871495.96	4.08438b (13120224)	
397338.17	3871505.37	4.00661b (13120224)	
397315.44	3871514.78	3.91519b (13120224)	
397292.71	3871524.20	3.81112b (13120224)	
397269.98	3871533.61	3.69527b (13120224)	
397247.25	3871543.03	3.56708b (13120224)	
397224.52	3871552.44	3.43320b (13120224)	
397201.79	3871561.86	3.28511b (13120224)	
397179.06	3871571.27	3.13022b (13120224)	
397156.33	3871580.69	2.97159b (13120224)	
397133.60	3871590.10	2.80782b (13120224)	
397110.87	3871599.51	2.63986b (13120224)	
397088.14	3871608.93	2.46892b (13120224)	
397065.41	3871618.34	2.29644b (13120224)	
397042.68	3871627.76	2.27952b (13020524)	
397019.95	3871637.17	2.31461b (13020524)	
396997.22	3871646.59	2.57096b (13020524)	
396974.49	3871656.00	2.85049b (13020524)	
396951.76	3871665.42	3.11466b (13020524)	
396929.03	3871674.83	3.35771b (13020524)	
396906.30	3871684.24	3.57516b (13020524)	
396883.57	3871693.66	3.76421b (13020524)	
396860.84	3871703.07	3.92380b (13020524)	
396838.11	3871712.49	4.05450b (13020524)	
396815.38	3871721.90	4.15124b (13020524)	

	396792.65	3871731.32	4.17159b (13020524)
396769.92	3871740.73	4.21780b (13020524)	
	396747.19	3871750.15	4.25367b (13020524)
398524.54	3869959.48	3.24769b (13121624)	
	398524.54	3869934.59	3.45371b (13121624)
398524.54	3869909.70	3.64482b (13121624)	
	398524.54	3869884.81	3.82410b (13121624)
398524.54	3869859.91	3.98996b (13121624)	
	398524.53	3869835.02	4.13223b (13121624)
398524.53	3869810.13	4.26615b (13121624)	
	398524.53	3869785.24	4.38047b (13121624)
398524.53	3869760.35	4.47906b (13121624)	
	398524.53	3869735.46	4.56189b (13121624)
398524.53	3869710.57	4.62659b (13121624)	
	398524.53	3869685.67	4.66817b (13121624)
398524.53	3869660.78	4.70542b (13121624)	
	398524.53	3869635.89	4.73167b (13121624)
398524.52	3869611.00	4.74561b (13121624)	
	398524.52	3869586.11	4.74297b (13121624)
398524.52	3869561.22	4.72514b (13121624)	
	398524.52	3869536.33	4.70378b (13121624)
398524.52	3869511.43	4.66132b (13121624)	
	398524.52	3869486.54	4.60655b (13121624)
398524.52	3869461.65	4.54387b (13121624)	
	398524.52	3869436.76	4.46855b (13121624)
398524.52	3869411.87	4.37423b (13121624)	
	398524.51	3869386.98	4.27131b (13121624)
398524.51	3869362.09	4.14452b (13121624)	
	398524.51	3869337.19	4.00733b (13121624)
398524.51	3869312.30	3.85160b (13121624)	
	398524.51	3869287.41	3.67864b (13121624)
398524.51	3869262.52	3.49535b (13121624)	
	398524.51	3869237.63	3.29225b (13121624)
398524.51	3869212.74	3.08376b (13121624)	
	398524.51	3869187.85	2.86793b (13121624)
398524.50	3869162.96	2.64222b (13121624)	
	398524.50	3869138.06	2.41212b (13121624)
398524.50	3869113.17	2.24776b (12123124)	
	398524.50	3869088.28	2.29352b (12123124)
398524.50	3869063.39	2.33510b (12123124)	
	398915.06	3869982.34	2.77457b (13121624)
398905.59	3870005.22	2.61072b (13121624)	
	398896.11	3870028.10	2.44151b (13121624)
398886.64	3870050.98	2.26985b (13121624)	
	398877.16	3870073.85	2.09803b (13121624)
398867.68	3870096.73	2.01651b (14010124)	
	398858.21	3870119.61	2.05039b (13020724)
398848.73	3870142.49	2.08896b (13020724)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 193

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3		** CONC OF ALL		IN
		**		
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
398839.26	3870165.37	2.12154b	(13020724)	
398829.78	3870188.25	2.14977b	(13020724)	
398820.30	3870211.12	2.16985b	(13020724)	
398810.83	3870234.00	2.18378b	(13020724)	
398801.35	3870256.88	2.19451b	(13020724)	
398791.88	3870279.76	2.19643b	(13020724)	
398782.40	3870302.64	2.19232b	(13020724)	
398772.92	3870325.52	2.18095b	(13020724)	
398763.45	3870348.40	2.16167b	(13020724)	
398753.97	3870371.27	2.13402b	(13020724)	
398744.50	3870394.15	2.10043b	(13020724)	
398735.02	3870417.03	2.05564b	(13020724)	
398725.54	3870439.91	2.04129b	(13123124)	
398716.07	3870462.79	2.12583b	(13123124)	
398706.59	3870485.67	2.20293b	(13123124)	
398697.12	3870508.54	2.27287b	(13123124)	
398687.64	3870531.42	2.33563b	(13123124)	
398678.17	3870554.30	2.39045b	(13123124)	
398668.69	3870577.18	2.43753b	(13123124)	
398659.21	3870600.06	2.47802b	(13123124)	
398649.74	3870622.94	2.50913b	(13123124)	
398640.26	3870645.81	2.53291b	(13123124)	
398630.79	3870668.69	2.54588b	(13123124)	
398621.31	3870691.57	2.54894b	(13123124)	
398611.83	3870714.45	2.54077b	(13123124)	
398602.36	3870737.33	2.52179b	(13123124)	
398592.88	3870760.21	2.49160b	(13123124)	
398583.41	3870783.09	2.45267b	(13123124)	
398573.93	3870805.96	2.40197b	(13123124)	
398564.45	3870828.84	2.34003b	(13123124)	
398554.98	3870851.72	2.26661b	(13123124)	
398545.50	3870874.60	2.18034b	(13123124)	

	398536.03	3870897.48	2.08548b (13123124)
398526.55	3870920.36	1.98309b (13123124)	
	398517.07	3870943.23	1.87249b (13123124)
398507.60	3870966.11	1.75623b (13123124)	
	398498.12	3870988.99	1.68726c (11011824)
398488.65	3871011.87	1.66246c (11011824)	
	398479.17	3871034.75	1.62913c (11011824)
398469.69	3871057.63	1.58848c (11011824)	
	398460.22	3871080.50	1.53949c (11011824)
398450.74	3871103.38	1.48362c (11011824)	
	398441.27	3871126.26	1.42214c (11011824)
398431.79	3871149.14	1.35425c (11011824)	
	398422.31	3871172.02	1.28178c (11011824)
398412.84	3871194.90	1.20568c (11011824)	
	398403.36	3871217.78	1.12699c (11011824)
398393.89	3871240.65	1.04701c (11011824)	
	398384.41	3871263.53	0.96638c (11011824)
398374.93	3871286.41	0.88591c (11011824)	
	398365.46	3871309.29	0.91754b (13020124)
398355.98	3871332.17	1.01807b (13020124)	
	398346.51	3871355.05	1.12319b (13020124)
398337.03	3871377.92	1.23344b (13020124)	
	398327.55	3871400.80	1.34795b (13020124)
398318.08	3871423.68	1.46651b (13020124)	
	398308.60	3871446.56	1.58887b (13020124)
398299.13	3871469.44	1.71428b (13020124)	
	398289.65	3871492.32	1.84196b (13020124)
398257.30	3871524.67	2.12776b (13020124)	
	398234.42	3871534.15	2.28756b (13020124)
398211.54	3871543.62	2.44843b (13020124)	
	398188.66	3871553.10	2.60946b (13020124)
398165.78	3871562.57	2.76918b (13020124)	
	398142.90	3871572.05	2.92582b (13020124)
398120.03	3871581.53	3.07846b (13020124)	
	398097.15	3871591.00	3.22488b (13020124)
398074.27	3871600.48	3.36389b (13020124)	
	398051.39	3871609.95	3.49346b (13020124)
398028.51	3871619.43	3.61325b (13020124)	
	398005.63	3871628.91	3.72119b (13020124)
397982.76	3871638.38	3.81541b (13020124)	
	397959.88	3871647.86	3.89595b (13020124)
397937.00	3871657.33	3.96118b (13020124)	
	397914.12	3871666.81	4.01130b (13020124)
397891.24	3871676.29	4.04480b (13020124)	
	397868.36	3871685.76	4.06179b (13020124)
397845.48	3871695.24	4.06217b (13020124)	
	397822.61	3871704.71	4.04598b (13020124)
397799.73	3871714.19	4.01327b (13020124)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 194

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
397776.85	3871723.67	3.96522b	(13020124)	
397753.97	3871733.14	3.90213b	(13020124)	
397731.09	3871742.62	3.82477b	(13020124)	
397708.21	3871752.09	3.73405b	(13020124)	
397685.34	3871761.57	3.67249b	(13120224)	
397662.46	3871771.05	3.69062b	(13120224)	
397639.58	3871780.52	3.69366b	(13120224)	
397616.70	3871790.00	3.68243b	(13120224)	
397593.82	3871799.47	3.65606b	(13120224)	
397570.94	3871808.95	3.61564b	(13120224)	
397548.07	3871818.43	3.56187b	(13120224)	
397525.19	3871827.90	3.49468b	(13120224)	
397502.31	3871837.38	3.41581b	(13120224)	
397479.43	3871846.85	3.38042b	(13120224)	
397456.55	3871856.33	3.26455b	(13120224)	
397433.67	3871865.81	3.13925b	(13120224)	
397410.79	3871875.28	3.00347b	(13120224)	
397387.92	3871884.76	2.86040b	(13120224)	
397365.04	3871894.23	2.70958b	(13120224)	
397342.16	3871903.71	2.55122b	(13120224)	
397319.28	3871913.19	2.38735b	(13120224)	
397296.40	3871922.66	2.21840b	(13120224)	
397273.52	3871932.14	2.04626b	(13120224)	
397250.65	3871941.61	1.87582b	(13120224)	
397227.77	3871951.09	1.71903b	(13120224)	
397204.89	3871960.56	1.55162b	(13120224)	
397182.01	3871970.04	1.53345c	(09020224)	
397159.13	3871979.52	1.55518c	(09020224)	
397136.25	3871988.99	1.56935c	(09020224)	
397113.38	3871998.47	1.67908b	(13020524)	
397090.50	3872007.94	1.91320b	(13020524)	
397067.62	3872017.42	2.15045b	(13020524)	

397044.74	3872026.90	2.38583b	(13020524)
397021.86	3872036.37	2.61421b	(13020524)
396998.98	3872045.85	2.83100b	(13020524)
396976.10	3872055.32	3.03228b	(13020524)
396953.23	3872064.80	3.21498b	(13020524)
396930.35	3872074.28	3.37710b	(13020524)
396907.47	3872083.75	3.51625b	(13020524)
396884.59	3872093.23	3.60514b	(13020524)
396861.71	3872102.70	3.69359b	(13020524)
396838.83	3872112.18	3.76800b	(13020524)
396815.96	3872121.66	3.82512b	(13020524)
396793.08	3872131.13	3.86736b	(13020524)
396770.20	3872140.61	3.85729b	(13020524)
396747.32	3872150.08	3.83533b	(13020524)
398924.54	3869959.46	2.93083b	(13121624)
398924.54	3869934.57	3.09354b	(13121624)
398924.54	3869909.68	3.24998b	(13121624)
398924.54	3869884.79	3.39778b	(13121624)
398924.54	3869859.90	3.53392b	(13121624)
398924.53	3869835.00	3.65621b	(13121624)
398924.53	3869810.11	3.76732b	(13121624)
398924.53	3869785.22	3.85828b	(13121624)
398924.53	3869760.33	3.93842b	(13121624)
398924.53	3869735.44	4.00475b	(13121624)
398924.53	3869710.55	4.05552b	(13121624)
398924.53	3869685.66	4.10084b	(13121624)
398924.53	3869660.77	4.13159b	(13121624)
398924.53	3869635.87	4.15255b	(13121624)
398924.52	3869610.98	4.15596b	(13121624)
398924.52	3869586.09	4.14715b	(13121624)
398924.52	3869561.20	4.12992b	(13121624)
398924.52	3869536.31	4.09471b	(13121624)
398924.52	3869511.42	4.05656b	(13121624)
398924.52	3869486.53	3.99861b	(13121624)
398924.52	3869461.63	3.93147b	(13121624)
398924.52	3869436.74	3.85328b	(13121624)
398924.52	3869411.85	3.75766b	(13121624)
398924.51	3869386.96	3.65808b	(13121624)
398924.51	3869362.07	3.54435b	(13121624)
398924.51	3869337.18	3.41353b	(13121624)
398924.51	3869312.29	3.27328b	(13121624)
398924.51	3869287.39	3.12544b	(13121624)
398924.51	3869262.50	2.96875b	(13121624)
398924.51	3869237.61	2.80333b	(13121624)
398924.51	3869212.72	2.63100b	(13121624)
398924.51	3869187.83	2.44947b	(13121624)
398924.50	3869162.94	2.26656b	(13121624)
398924.50	3869138.05	2.08546b	(13121624)

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      10/09/17
*** AERMET - VERSION 14134 ***      ***
***      18:08:39

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PAGE 195

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*** MODELOPTs:      RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):      AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF ALL IN

**

MICROGRAMS/M**3

X-COORD (M)		Y-COORD (M)		CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	COORD (M)	CONC	(YMMDDHH)		
398924.50	3869113.15	3869088.26	1.90500b	(13121624)		
398924.50	3869088.26	3869063.37	1.77204b	(12123124)		
398924.50	3869063.37	3869982.43	1.84169b	(12123124)		
399315.02	3869982.43	3870005.41	2.55408b	(13121624)		
399305.50	3870005.41	3870028.39	2.42188b	(13121624)		
399295.98	3870028.39	3870051.37	2.28647b	(13121624)		
399286.46	3870051.37	3870074.36	2.14777b	(13121624)		
399276.94	3870074.36	3870097.34	2.00630b	(13121624)		
399267.43	3870097.34	3870120.32	1.90001b	(14010124)		
399257.91	3870120.32	3870143.30	1.84697b	(14010124)		
399248.39	3870143.30	3870166.29	1.78545b	(14010124)		
399238.87	3870166.29	3870189.27	1.73153b	(13020724)		
399229.35	3870189.27	3870212.25	1.77959b	(13020724)		
399219.83	3870212.25	3870235.23	1.82224b	(13020724)		
399210.31	3870235.23	3870258.22	1.85810b	(13020724)		
399200.79	3870258.22	3870281.20	1.88851b	(13020724)		
399191.27	3870281.20	3870304.18	1.91608b	(13020724)		
399181.75	3870304.18	3870327.16	1.93578b	(13020724)		
399172.24	3870327.16	3870350.15	1.94980b	(13020724)		
399162.72	3870350.15	3870373.13	1.95976b	(13020724)		
399153.20	3870373.13	3870396.11	1.96132b	(13020724)		
399143.68	3870396.11	3870419.09	1.95612b	(13020724)		
399134.16	3870419.09	3870442.07	1.94564b	(13020724)		
399124.64	3870442.07	3870465.06	1.92924b	(13020724)		
399115.12	3870465.06	3870488.04	1.90330b	(13020724)		
399105.60	3870488.04	3870511.02	1.86999b	(13020724)		
399096.08	3870511.02	3870534.00	1.83132b	(13020724)		
399086.56	3870534.00	3870556.99	1.78442b	(13020724)		
399077.05	3870556.99	3870579.97	1.72839b	(13020724)		
399067.53	3870579.97	3870602.95	1.74960b	(13123124)		
399058.01	3870602.95	3870625.93	1.82794b	(13123124)		
399048.49	3870625.93		1.90108b	(13123124)		

399038.97	3870648.92	1.96902b	(13123124)
399029.45	3870671.90	2.03340b	(13123124)
399019.93	3870694.88	2.08874b	(13123124)
399010.41	3870717.86	2.13853b	(13123124)
399000.89	3870740.85	2.18175b	(13123124)
398991.37	3870763.83	2.21491b	(13123124)
398981.85	3870786.81	2.24288b	(13123124)
398972.34	3870809.79	2.26285b	(13123124)
398962.82	3870832.78	2.27358b	(13123124)
398953.30	3870855.76	2.27271b	(13123124)
398943.78	3870878.74	2.26419b	(13123124)
398934.26	3870901.72	2.24496b	(13123124)
398924.74	3870924.71	2.21669b	(13123124)
398915.22	3870947.69	2.17711b	(13123124)
398905.70	3870970.67	2.12969b	(13123124)
398896.18	3870993.65	2.07289b	(13123124)
398886.66	3871016.64	2.00860b	(13123124)
398877.15	3871039.62	1.93607b	(13123124)
398867.63	3871062.60	1.85427b	(13123124)
398858.11	3871085.58	1.76727b	(13123124)
398848.59	3871108.56	1.67378b	(13123124)
398839.07	3871131.55	1.57570b	(13123124)
398829.55	3871154.53	1.53031c	(11011824)
398820.03	3871177.51	1.51831c	(11011824)
398810.51	3871200.49	1.49938c	(11011824)
398800.99	3871223.48	1.47289c	(11011824)
398791.47	3871246.46	1.43961c	(11011824)
398781.96	3871269.44	1.40078c	(11011824)
398772.44	3871292.42	1.35487c	(11011824)
398762.92	3871315.41	1.30313c	(11011824)
398753.40	3871338.39	1.24683c	(11011824)
398743.88	3871361.37	1.18605c	(11011824)
398734.36	3871384.35	1.12230c	(11011824)
398724.84	3871407.34	1.05565c	(11011824)
398715.32	3871430.32	0.98679c	(11011824)
398705.80	3871453.30	0.91702c	(11011824)
398696.28	3871476.28	0.84698c	(11011824)
398686.77	3871499.27	0.77739c	(11011824)
398677.25	3871522.25	0.70864c	(11011824)
398667.73	3871545.23	0.71027c	(10020124)
398658.21	3871568.21	0.73307c	(10020124)
398648.69	3871591.20	0.75342c	(10020124)
398639.17	3871614.18	0.77110c	(10020124)
398629.65	3871637.16	0.83939b	(13020124)
398620.13	3871660.14	0.92354b	(13020124)
398610.61	3871683.13	1.01197b	(13020124)
398601.09	3871706.11	1.10441b	(13020124)
398591.57	3871729.09	1.20055b	(13020124)

397850.56	3872093.13	3.43121b	(13120224)
397827.58	3872102.65	3.42937b	(13120224)
397804.60	3872112.17	3.41151b	(13120224)
397781.62	3872121.68	3.37922b	(13120224)
397758.63	3872131.20	3.33102b	(13120224)
397735.65	3872140.72	3.27257b	(13120224)
397712.67	3872150.24	3.20323b	(13120224)
397689.69	3872159.76	3.12044b	(13120224)
397666.70	3872169.28	3.02629b	(13120224)
397643.72	3872178.80	2.92214b	(13120224)
397620.74	3872188.32	2.80773b	(13120224)
397597.76	3872197.84	2.68457b	(13120224)
397574.77	3872207.36	2.55138b	(13120224)
397551.79	3872216.87	2.41365b	(13120224)
397528.81	3872226.39	2.26922b	(13120224)
397505.83	3872235.91	2.12123b	(13120224)
397482.84	3872245.43	1.97248b	(13120224)
397459.86	3872254.95	1.82143b	(13120224)
397436.88	3872264.47	1.67011b	(13120224)
397413.90	3872273.99	1.51918b	(13120224)
397390.91	3872283.51	1.36603b	(13120224)
397367.93	3872293.03	1.22471b	(13120224)
397344.95	3872302.55	1.27920c	(09020224)
397321.97	3872312.07	1.32451c	(09020224)
397298.98	3872321.58	1.35977c	(09020224)
397276.00	3872331.10	1.38766c	(09020224)
397253.02	3872340.62	1.40660c	(09020224)
397230.04	3872350.14	1.42416c	(09020224)
397207.05	3872359.66	1.43121c	(09020224)
397184.07	3872369.18	1.43186c	(09020224)
397161.09	3872378.70	1.56136b	(13020524)
397138.11	3872388.22	1.75455b	(13020524)
397115.13	3872397.74	1.94533b	(13020524)
397092.14	3872407.26	2.13617b	(13020524)
397069.16	3872416.77	2.32198b	(13020524)
397046.18	3872426.29	2.50902b	(13020524)
397023.20	3872435.81	2.68155b	(13020524)
397000.21	3872445.33	2.83731b	(13020524)
396977.23	3872454.85	2.95781b	(13020524)
396954.25	3872464.37	3.07510b	(13020524)
396931.27	3872473.89	3.19292b	(13020524)
396908.28	3872483.41	3.23951b	(13020524)
396885.30	3872492.93	3.31448b	(13020524)
396862.32	3872502.45	3.37286b	(13020524)
396839.34	3872511.96	3.37117b	(13020524)
396816.35	3872521.48	3.34893b	(13020524)
396793.37	3872531.00	3.36471b	(13020524)
396770.39	3872540.52	3.28909b	(13020524)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 197

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3

** CONC OF ALL IN
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
399324.54	3869959.44	2.68214b	(13121624)	
399324.54	3869934.55	2.81579b	(13121624)	
399324.54	3869909.66	2.94349b	(13121624)	
399324.54	3869884.77	3.06401b	(13121624)	
399324.54	3869859.88	3.17560b	(13121624)	
399324.53	3869834.99	3.27730b	(13121624)	
399324.53	3869810.10	3.36446b	(13121624)	
399324.53	3869785.20	3.44443b	(13121624)	
399324.53	3869760.31	3.51408b	(13121624)	
399324.53	3869735.42	3.57269b	(13121624)	
399324.53	3869710.53	3.62002b	(13121624)	
399324.53	3869685.64	3.65627b	(13121624)	
399324.53	3869660.75	3.67669b	(13121624)	
399324.53	3869635.86	3.68614b	(13121624)	
399324.52	3869610.96	3.68665b	(13121624)	
399324.52	3869586.07	3.67827b	(13121624)	
399324.52	3869561.18	3.65798b	(13121624)	
399324.52	3869536.29	3.62291b	(13121624)	
399324.52	3869511.40	3.58143b	(13121624)	
399324.52	3869486.51	3.52557b	(13121624)	
399324.52	3869461.62	3.46061b	(13121624)	
399324.52	3869436.72	3.38649b	(13121624)	
399324.52	3869411.83	3.30111b	(13121624)	
399324.51	3869386.94	3.20204b	(13121624)	
399324.51	3869362.05	3.09383b	(13121624)	
399324.51	3869337.16	2.97906b	(13121624)	
399324.51	3869312.27	2.85691b	(13121624)	
399324.51	3869287.38	2.72707b	(13121624)	
399324.51	3869262.49	2.59015b	(13121624)	
399324.51	3869237.59	2.44470b	(13121624)	
399324.51	3869212.70	2.29817b	(13121624)	

399324.51	3869187.81	2.14895b	(13121624)
399324.50	3869162.92	1.99725b	(13121624)
399324.50	3869138.03	1.84446b	(13121624)
399324.50	3869113.14	1.69304b	(13121624)
399324.50	3869088.25	1.54340b	(13121624)
399324.50	3869063.35	1.53655b	(13121824)
395826.53	3869959.52	6.51595b	(12120524)
395828.79	3869063.47	15.11341b	(13122724)
396724.50	3869063.47	13.59072b	(13010324)
396724.54	3869959.56	11.69534b	(13020124)
395826.59	3869934.63	6.70769b	(12120524)
395826.66	3869909.74	6.80701b	(12120524)
395826.72	3869884.85	6.82960b	(12120524)
395826.78	3869859.96	6.81490b	(12120524)
395826.84	3869835.07	7.31155b	(13121724)
395826.91	3869810.18	8.17011b	(13121724)
395826.97	3869785.29	8.97820b	(13121724)
395827.03	3869760.40	9.73891b	(13121724)
395827.10	3869735.51	10.45198b	(13121724)
395827.16	3869710.62	11.12002b	(13121724)
395827.22	3869685.73	11.75542b	(13121724)
395827.28	3869660.84	12.20058b	(13121724)
395827.35	3869635.95	12.75173b	(13121724)
395827.41	3869611.06	13.24038b	(13121724)
395827.47	3869586.17	13.70674b	(13121724)
395827.53	3869561.28	14.13655b	(13121724)
395827.60	3869536.39	14.52752b	(13121724)
395827.66	3869511.50	14.91340b	(13121724)
395827.72	3869486.60	15.22363b	(13121724)
395827.79	3869461.71	15.47872b	(13121724)
395827.85	3869436.82	15.73981b	(13121724)
395827.91	3869411.93	15.93519b	(13121724)
395827.97	3869387.04	16.11481b	(13121724)
395828.04	3869362.15	16.27168b	(13121724)
395828.10	3869337.26	16.39438b	(13121724)
395828.16	3869312.37	16.48823b	(13121724)
395828.22	3869287.48	16.55417b	(13121724)
395828.29	3869262.59	16.59724b	(13121724)
395828.35	3869237.70	16.61498b	(13121724)
395828.41	3869212.81	16.60503b	(13121724)
395828.48	3869187.92	16.56414b	(13121724)
395828.54	3869163.03	16.48741b	(13121724)
395828.60	3869138.14	16.35554b	(13121724)
395828.66	3869113.25	16.05178b	(13121724)
395828.73	3869088.36	15.67620b	(13121724)
395853.67	3869063.47	15.21770b	(13122724)
395878.55	3869063.47	15.21968b	(13122724)
395903.43	3869063.47	15.21444b	(13122724)

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*** AERMET - VERSION 14134 ***   ***
***      18:08:39

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PAGE 198

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL   ***
              INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF ALL      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
395928.31	3869063.47	14.97474b (13122724)	
395953.19	3869063.47	14.35590b (13122724)	
395978.07	3869063.47	14.35043b (13122724)	
396002.96	3869063.47	14.35921b (13122724)	
396027.84	3869063.47	14.34929b (13122724)	
396052.72	3869063.47	14.03888b (13122724)	
396077.60	3869063.47	13.68927b (13122724)	
396102.48	3869063.47	13.66494b (13122724)	
396127.36	3869063.47	13.64755b (13122724)	
396152.24	3869063.47	13.62717b (13122724)	
396177.12	3869063.47	13.58526b (13122724)	
396202.00	3869063.47	13.31504b (13122724)	
396226.88	3869063.47	12.98308b (13122724)	
396251.76	3869063.47	12.89661b (13122724)	
396276.64	3869063.47	12.80373b (13122724)	
396301.53	3869063.47	12.67282b (13122724)	
396326.41	3869063.47	12.28481b (13122724)	
396351.29	3869063.47	11.86506b (13122724)	
396376.17	3869063.47	11.57657b (12122824)	
396401.05	3869063.47	11.93191b (12122824)	
396425.93	3869063.47	12.27770b (12122824)	
396450.81	3869063.47	12.45147b (12122824)	
396475.69	3869063.47	12.63430b (12122824)	
396500.57	3869063.47	12.84543b (12122824)	
396525.45	3869063.47	13.06628b (12122824)	
396550.33	3869063.47	13.20787b (12122824)	
396575.21	3869063.47	13.34457b (12122824)	
396600.10	3869063.47	13.43320b (12122824)	
396624.98	3869063.47	13.42990b (12122824)	
396649.86	3869063.47	13.40409b (12122824)	
396674.74	3869063.47	13.48977b (12120724)	
396699.62	3869063.47	13.55399b (12120724)	

	396724.50	3869088.36	13.33790b (12120724)
396724.50	3869113.25	13.26474b (12120724)	
	396724.50	3869138.14	13.15783b (12120724)
396724.50	3869163.04	13.01388b (12120724)	
	396724.51	3869187.93	12.83836b (12120724)
396724.51	3869212.82	12.62931b (12120724)	
	396724.51	3869237.71	12.39337b (12120724)
396724.51	3869262.60	12.13009b (12120724)	
	396724.51	3869287.49	11.83454b (12120724)
396724.51	3869312.38	11.51190b (12120724)	
	396724.51	3869337.28	11.29706b (13011424)
396724.51	3869362.17	11.33311b (13011424)	
	396724.51	3869387.06	11.48691b (13011424)
396724.52	3869411.95	11.43926b (13011424)	
	396724.52	3869436.84	11.43226b (13121624)
396724.52	3869461.73	11.44121b (13121624)	
	396724.52	3869486.62	11.47242b (13121624)
396724.52	3869511.52	11.49513b (13121624)	
	396724.52	3869536.41	11.56295b (13121624)
396724.52	3869561.30	11.80158b (13121624)	
	396724.52	3869586.19	11.83198b (13121624)
396724.52	3869611.08	11.83316b (13121624)	
	396724.53	3869635.97	11.83396b (13121624)
396724.53	3869660.86	11.83392b (13121624)	
	396724.53	3869685.75	11.83229b (13121624)
396724.53	3869710.65	11.82764b (13121624)	
	396724.53	3869735.54	12.08547b (13121624)
396724.53	3869760.43	12.21039b (13121624)	
	396724.53	3869785.32	12.17946b (13121624)
396724.53	3869810.21	12.11047b (13121624)	
	396724.53	3869835.10	12.00250b (13121624)
396724.54	3869859.99	11.79911b (13121624)	
	396724.54	3869884.89	11.66476b (13020124)
396724.54	3869909.78	11.70419b (13020124)	
	396724.54	3869934.67	11.65815b (13020124)
396699.60	3869959.56	11.67907b (13020124)	
	396674.65	3869959.56	11.65177b (13020124)
396649.71	3869959.56	11.63500b (13120224)	
	396624.76	3869959.56	11.66992b (13120224)
396599.82	3869959.55	11.80710b (13120224)	
	396574.87	3869959.55	12.06738b (13120224)
396549.93	3869959.55	12.04026b (13120224)	
	396524.98	3869959.55	11.99681b (13120224)
396500.04	3869959.55	11.99220b (13120224)	
	396475.09	3869959.55	12.16097b (13120224)
396450.15	3869959.55	12.34370b (13120224)	
	396425.20	3869959.55	12.23772b (13120224)
396400.26	3869959.55	12.16187b (13020524)	

```

*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***                    10/09/17
*** AERMET - VERSION 14134 ***    ***
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PAGE 199
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```
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL
```

```

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):    AREA1 ,

```

```
*** DISCRETE CARTESIAN
```

```
RECEPTOR POINTS ***
```

```

** CONC OF ALL   IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396375.31	3869959.54	12.15740b	(13020524)	
396350.37	3869959.54	12.15173b	(13020524)	
396325.42	3869959.54	12.15713b	(13020524)	
396300.48	3869959.54	12.13631b	(13020524)	
396275.54	3869959.54	12.14108b	(13020524)	
396250.59	3869959.54	12.20837b	(13020524)	
396225.65	3869959.54	12.22875b	(13020524)	
396200.70	3869959.54	12.21257b	(13020524)	
396175.76	3869959.54	12.18720b	(13020524)	
396150.81	3869959.53	12.14761b	(13020524)	
396125.87	3869959.53	12.08839b	(13020524)	
396100.92	3869959.53	12.01606b	(13020524)	
396075.98	3869959.53	12.02459b	(13020524)	
396051.03	3869959.53	11.88831b	(13020524)	
396026.09	3869959.53	11.63907b	(13020524)	
396001.14	3869959.53	11.28508b	(13020524)	
395976.20	3869959.53	10.79823b	(13020524)	
395951.25	3869959.53	10.13184b	(13020524)	
395926.31	3869959.52	9.28546b	(13020524)	
395901.36	3869959.52	8.31085b	(13020524)	
395876.42	3869959.52	6.96589b	(13020524)	
395851.47	3869959.52	6.52717b	(12120524)	

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PAGE 200

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE SUMMARY OF MAXIMUM PERIOD

(43872 HRS) RESULTS ***

MICROGRAMS/M**3 ** CONC OF ALL IN
**

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.84520 AT (396724.53,		
3869760.43,	774.00, 774.00,	0.00) DC		
	2ND HIGHEST VALUE IS	0.84470 AT (396724.53,		
3869735.54,	773.67, 773.67,	0.00) DC		
	3RD HIGHEST VALUE IS	0.84460 AT (396724.52,		
3869611.08,	773.00, 773.00,	0.00) DC		
	4TH HIGHEST VALUE IS	0.84428 AT (396724.52,		
3869586.19,	773.00, 773.00,	0.00) DC		
	5TH HIGHEST VALUE IS	0.84416 AT (396724.53,		
3869635.97,	773.00, 773.00,	0.00) DC		
	6TH HIGHEST VALUE IS	0.84282 AT (396724.53,		
3869660.86,	773.00, 773.00,	0.00) DC		
	7TH HIGHEST VALUE IS	0.84129 AT (396724.52,		
3869561.30,	772.88, 772.88,	0.00) DC		
	8TH HIGHEST VALUE IS	0.84087 AT (396724.53,		
3869685.75,	773.00, 773.00,	0.00) DC		
	9TH HIGHEST VALUE IS	0.83870 AT (396724.53,		
3869785.32,	774.00, 774.00,	0.00) DC		
	10TH HIGHEST VALUE IS	0.83799 AT (396724.53,		
3869710.65,	773.00, 773.00,	0.00) DC		

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
*** 18:08:39

PAGE 201

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE SUMMARY OF

HIGHEST 24-HR RESULTS ***

MICROGRAMS/M**3

** CONC OF ALL IN
**

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH)

RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 16.61498b ON 13121724: AT (
395828.35, 3869237.70, 777.00, 777.00, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 10/09/17
*** AERMET - VERSION 14134 *** ***
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PAGE 202

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 8029 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 5748 Calm Hours Identified

A Total of 2281 Missing Hours Identified (5.20 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Results Summary

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ALL - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
24-HR	1ST	16.61498	ug/m^3	395828.35	3869237.70	777.00	0.00	777.00	12/17/2013, 24
PERIOD		0.84520	ug/m^3	396724.53	3869760.43	774.00	0.00	774.00	

Ambient Air Quality Analysis - Edwards AFB Solar Project - Unmitigated Scenario

Table 1. Max Emission Rates (lbs/day) for Project - (Summer/Winter Maximum from CalEEMod)

Max Rates	PM ₁₀	PM _{2.5}
Total Daily, lbs/day	545.69	65.39
Daily Max, g/s	8.59	1.03
Hourly Max lbs/hr	68.21	8.17

Note: The lbs/day values are maximum from summer and winter outputs from CalEEMod. Conversion assumes 8 hr workday

Table 2. AERMOD Maximum Impact X/Q, (ug/m³)/(g/s)

Max 24-Hour	Max Annual
16.61	0.85

Note: These concentrations are based on the AERMOD Results Summary Report

Table 3. Project Contribution Concentrations (ug/m³)

Pollutant	CAS No.	Hr. Max (g/s)	X/Q (ug/m ³)/(g/s)	Project Concentration (ug/m ³)
		(from Table 1)	(from Table 2)	
24-hour PM ₁₀	85101	8.59	16.61	142.80
Annual PM ₁₀	85101	8.59	0.85	7.26
24-hour PM _{2.5}	88101	1.03	16.61	17.11
Annual PM _{2.5}	88101	1.03	0.85	0.87

Table 4. AAQA for Edwards AFB Solar Construction Project

Impact Parameter	Applicable Standard	Project Area Maximum Background Concentration (Years 2014-2016)		Project Contribution (ug/m ³)	Cumulative Concentration (ug/m ³)	AAQS Threshold (ug/m ³)	Step 1 Significance	SIL (ug/m ³)	Step 2 Significance
		ppmv	ug/m ³						
24-hour PM ₁₀	State	--	171	142.80	314	50	Step 2	5	FAIL
	Federal	--	184	142.80	327	150	Step 2	5	FAIL
Annual PM ₁₀	State	--	24	7.26	31	20	Step 2	1	FAIL
24-hour PM _{2.5}	Federal	--	42	17.11	59	35	Step 2	5	FAIL
Annual PM _{2.5}	State	--	6	0.87	7	12	Pass	1	Step 1
	Federal	--	8	0.87	8	12	Pass	1	Step 1

Sources:

CARB. 2016. "Ambient Air Quality Standards." May 4, 2016. Accessed October 2017. <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>.

CARB. 2017. "iADAM: Air Quality Data Statistics." Accessed October 2017. <https://www.arb.ca.gov/adam/topfour/topfour1.php>.

Ambient Air Quality Analysis - Edwards AFB Solar Project - Mitigated Scenario

Table 1. Max Emission Rates (lbs/day) for Project - (Summer/Winter Maximum from CalEEMod)

Max Rates	PM ₁₀	PM _{2.5}
Total Daily, lbs/day	165.86	25.03
Daily Max, g/s	2.61	0.39
Hourly Max lbs/hr	20.73	3.13

Note: The lbs/day values are maximum from summer and winter outputs from CalEEMod. Conversion assumes 8 hr workday

Table 2. AERMOD Maximum Impact X/Q, (ug/m³)/(g/s)

Max 24-Hour	Max Annual
16.61	0.85

Note: These concentrations are based on the AERMOD Results Summary Report

Table 3. Project Contribution Concentrations (ug/m³)

Pollutant	CAS No.	Hr. Max (g/s)	X/Q (ug/m ³)/(g/s)	Project Concentration (ug/m ³)
		(from Table 1)	(from Table 2)	
24-hour PM ₁₀	85101	2.61	16.61	43.40
Annual PM ₁₀	85101	2.61	0.85	2.21
24-hour PM _{2.5}	88101	0.39	16.61	6.55
Annual PM _{2.5}	88101	0.39	0.85	0.33

Table 4. AAQA for Edwards AFB Solar Construction Project

Impact Parameter	Applicable Standard	Project Area Maximum Background Concentration (Years 2014-2016)		Project Contribution (ug/m ³)	Cumulative Concentration (ug/m ³)	AAQS Threshold (ug/m ³)	Step 1 Significance	SIL (ug/m ³)	Step 2 Significance
		ppmv	ug/m ³						
24-hour PM ₁₀	State	--	171	43.40	214	50	Step 2	5	FAIL
	Federal	--	184	43.40	228	150	Step 2	5	FAIL
Annual PM ₁₀	State	--	24	2.21	26	20	Step 2	1	FAIL
24-hour PM _{2.5}	Federal	--	42	6.55	49	35	Step 2	5	FAIL
Annual PM _{2.5}	State	--	6	0.33	6	12	Pass	1	Step 1
	Federal	--	8	0.33	8	12	Pass	1	Step 1

Sources:

CARB. 2016. "Ambient Air Quality Standards." May 4, 2016. Accessed October 2017. <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>.

CARB. 2017. "iADAM: Air Quality Data Statistics." Accessed October 2017. <https://www.arb.ca.gov/adam/topfour/topfour1.php>.

B3. Edwards AFB Solar HRA

**Construction and Operational Health Risk Assessment
for the
Edwards Air Force Base Solar Facility Project**

Prepared for

Edwards AFB Solar, LLC

Prepared by

DUDEK

605 Third Street
Encinitas, California 92024

FEBRUARY 2018

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

TABLE OF CONTENTS

<u>Section</u>	<u>Page No.</u>
EXECUTIVE SUMMARY	III
1 INTRODUCTION.....	1
1.1 Document Overview	1
1.2 Project Description.....	1
1.3 Toxic Air Contaminants.....	1
1.3.1 Cancer Risk.....	2
1.3.2 Noncancer Health Impacts.....	3
2 GUIDANCE AND THRESHOLDS	5
2.1 Eastern Kern Air Pollution Control District Guidance	5
2.2 Office of Environmental Health Hazard Assessment Guidance.....	5
3 MODELING METHODOLOGY	7
3.1 Construction Diesel Particulate Matter Emissions Estimation	7
3.2 Operational Diesel Particulate Matter Emissions Estimation.....	8
3.3 Dispersion Model.....	9
3.4 Health Risk Assessment Methodology	15
4 HEALTH RISK ASSESSMENT RESULTS.....	16
4.1 Construction Health Risk.....	16
4.2 Operational Health Risk.....	16
5 CONCLUSIONS	18
6 LITERATURE CITED	20

APPENDIX

A AERMOD, Emissions Inventory, and HARP 2 Output Files

FIGURES

1	Windrose for Edwards Air Force Base Meteorological Station	12
2	Construction Area and Proximate Sensitive Receptor Locations	13
3	Operational Activity Area and Proximate Sensitive Receptor Locations.....	14

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

TABLE OF CONTENTS (CONTINUED)

Page No.

TABLES

1	Construction Equipment and On-Road Vehicles	8
2	Construction Related Health Risk Assessment.....	16
3	Operational Related Health Risk Assessment.....	17

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

EXECUTIVE SUMMARY

The United States Air Force proposes to lease land to a developer for the construction, operation and maintenance of the Edwards Air Force Base (AFB) Solar Photovoltaic Enhanced Use Lease Project (Project). The Project would be an up to 4,000-acre solar facility, which is anticipated to generate up to 600 megawatts (MW) and includes the construction of a 150 MW battery storage facility. The Project would also include the construction, operation and maintenance of a 230-kilovolt (kV) generation tie (gen-tie) line from the proposed solar facility to a point of interconnection where power generated by the Project can be delivered to the grid.

The purpose of this health risk assessment (HRA) is to determine the potential cancer risk to the closest sensitive receptors of the Project due to diesel particulate matter (DPM) emissions resulting from diesel equipment and diesel trucks associated with construction and operational activities. Dispersion modeling was performed using the American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD), which is the model that Eastern Kern Air Pollution Control District (EKAPCD) requires for atmospheric dispersion of emissions. The Office of Environmental Health Hazard Assessment's (OEHHA) *Air Toxics Hot Spot Program Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments* (Risk Assessment Guidelines) (2015) was used to prepare the construction HRA for the Project.

In summary, as determined in the HRA, Project construction and operations would emit DPM that would result in a cancer risk and chronic hazard index (HI) at the maximally exposed receptors below the applicable EKAPCD thresholds.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

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Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

1 INTRODUCTION

1.1 Document Overview

Dudek prepared this health risk assessment (HRA) to estimate health risk impacts from construction and operations of the Edwards Air Force Base (AFB) Solar Photovoltaic Enhanced Use Lease Project (Project). The analysis presented uses air dispersion modeling methodology to evaluate potential public health risks associated with the Project. Results of the modeling analysis are compared with the most recent significance thresholds established by the Eastern Kern Air Pollution Control District (EKAPCD) for purposes of California Environmental Quality Act (CEQA) analysis.

1.2 Project Description

The Project would be an up to 4,000-acre solar facility, which is anticipated to generate up to 600 megawatts (MW) and includes the construction of a 150 MW battery storage facility. The Project would also include the construction, operation and maintenance of a 230-kilovolt (kV) generation tie (gen-tie) line from the proposed solar facility to a point of interconnection where power generated by the Project can be delivered to the grid. Points of interconnection include the Southern California Edison (SCE) Windhub Substation and/or privately owned Westwind Substation. The gen-tie line would allow electricity generated from the Project to reach high-voltage transmission lines, through a substation, that would be able to carry power to utility customers. The proposed 230 kV gen-tie line would run across publicly and privately owned property within Kern County. In general, the gen-tie route can be broken down in to two categories based on the direction of the corridor—a north–south connection and an east–west connection. There are two options for the north–south gen-tie connection and the proposed Project would include only one of these two north–south route options. There are two options for the east–west gen-tie connection and the proposed Project would include only one of these two east–west route options. The final gen-tie route will be determined by the ability to acquire access easements for construction and installation of the line from public and private entities. Because all the possible gen-tie options would be similar in length, a singular construction schedule was assumed for all options. The proposed solar facility would be located on the northwest corner of Edwards AFB. The Project site is located approximately 57 miles southeast of the city of Bakersfield and approximately 7 miles north of the community of Rosamond and 6 miles south of Mojave, in southeastern Kern County, California.

1.3 Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (short-term) and/or chronic (long-

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

term) noncancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Examples include certain aromatic and chlorinated hydrocarbons, diesel-particulate matter (DPM), certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ system and may be experienced either on acute or chronic exposure to a given TAC.

In 1998, the California Air Resources Board (CARB) designated DPM as a TAC. The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment.

1.3.1 Cancer Risk

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. The cancer risk from exposure to a TAC is estimated by calculating the inhalation (and if applicable, ingestion or dermal) dose in units of milligrams/kilogram body weight per day. The dose is based on an ambient concentration in units of micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), age sensitivity factors, breathing rates, exposure period, and fraction of time spent at home. The cancer risk is calculated by multiplying the dose by the cancer potency factor, expressed as (milligrams/kilogram body weight per day)⁻¹. Cancer risks are typically calculated for all carcinogenic TACs and summed to calculate the overall increase in cancer risk to an individual. The calculation procedure assumes that cancer risk is proportional to concentrations at any level of exposure and that risks due to different carcinogens are additive. This approach is generally considered a conservative assumption at low doses and is consistent with the Office of Environmental Health Hazard Assessment's (OEHHA's) regulatory approach.

The cancer risk calculations were performed by multiplying the predicted dispersion modeled output data by the TAC emissions and the appropriate risk values. The exposure and risk equations that were used to calculate the cancer risk at receptors are integrated in the Hotspots Analysis and Reporting Program, Version 2 (HARP 2) model, in accordance with the Risk Assessment Guidelines (OEHHA 2015).

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

The following equations were used to calculate the cancer risk using the model output data and estimated TAC emissions associated with diesel exhaust.

$$\text{Cancer Risk} = \text{DOSE} * \text{CPF} * \text{ASF} * \text{ED/AT} * \text{FAH}$$

$$\text{DOSE} = (C_{\text{air}} * \text{DBR} * \text{A} * \text{EF} * 10^{-6})$$

$$C_{\text{air}} = \text{ER} * \text{X/Q}$$

Where:

- DOSE: Daily inhalation dose (mg/kg-day)
- CPF: Cancer potency factor (mg/kg-day)⁻¹
- ASF: Age sensitivity factor for a specified age group (unitless)
- ED: Exposure duration (in years) for a specified age group
- AT: Averaging time for lifetime cancer risk (years)
- FAH: Fraction of time spent at home (unitless)
- C_{air}: Average air concentration of TAC from the air dispersion model (µg/m³)
- DBR: Daily breathing rate (L/kg body weight-day)
- EF: Exposure frequency (unitless), days/365 days
- A: Inhalation absorption factor (unitless)
- 10⁻⁶: Micrograms to milligrams conversion, liters to cubic meters conversion
- ER: Emission rates (g/s)
- X/Q: Model output data (µg/m³)/(g/s)

1.3.2 Noncancer Health Impacts

The noncancer health impact of an inhaled TAC is measured by the hazard quotient, which is the ratio of the ambient concentration of a TAC in units of µg/m³ divided by the reference exposure level (REL), also in units of µg/m³. The REL is the concentration at or below which no adverse health effects are anticipated. The REL is typically based on health effects to a particular target organ system, such as the respiratory system, liver, or central nervous system. Hazard quotients of individual TACs are then summed for each target organ system to obtain a hazard index (HI). For DPM, the target organ system is the respiratory system.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

In addition to the potential cancer risk, DPM has chronic (i.e., long-term) noncancer health impacts. The chronic noncancer HI for DPM was calculated by dividing the maximum modeled annual average concentration of TACs by its REL as implemented by HARP 2.

The chronic hazard quotients were calculated for DPM using the following equations (OEHHA 2015).

$$\text{CHQ} = (C_{\text{air}} / \text{REL})$$

Where:

- CHQ: Chronic hazard quotient
- C_{air} : Annual average concentration ($\mu\text{g}/\text{m}^3$)
- REL: Chronic reference exposure level ($\mu\text{g}/\text{m}^3$)

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

2 GUIDANCE AND THRESHOLDS

2.1 Eastern Kern Air Pollution Control District Guidance

TACs are listed in the regulation implementing the Air Toxics “Hot Spots” Information and Assessment Act (Assembly Bill (AB) 2588). A subset of these TACs has been listed by the OEHHA as having acute, chronic, and/or carcinogenic effects on public health. The EKAPCD recommends health risk thresholds of cancer risk greater than or equal to 10 cases in one million and a chronic or acute HI equal to or greater than 1.0 (EKAPCD 2018).

2.2 Office of Environmental Health Hazard Assessment Guidance

OEHHA’s most recent guidance is the *Air Toxics Hot Spots Program Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015), which was adopted in 2015 replacing the previous 2003 guidance manual. The Children’s Environmental Health Protection Act of 1999 (Senate Bill (SB) 25), which requires explicit consideration of infants and children in assessing risks from air toxics, required revisions of the methods for both noncancer and cancer risk assessment and of the exposure assumptions in the 2003 OEHHA HRA guidance manual. In response to SB 25, OEHHA released three technical support documents (TSDs) addressing RELs (OEHHA 2008), cancer potency (OEHHA 2009), and exposure assessment and stochastic analysis (OEHHA 2012) and adopted the revised HRA guidance manual (OEHHA 2015). The TSD for RELs and continuing work to re-evaluate TACs to ensure adequate protection for infants and children has led to revisions of RELs for approximately 10 chemicals and chemical families. The basic methodology for evaluating acute and chronic health effects using the RELs otherwise remained the same as in the previous guidance manual. Moreover, RELs are designed to protect the most sensitive individuals in the population, including infants and children, by selecting appropriate toxicological data and including margins of safety. Accordingly, the evaluation methods are assumed to protect children and other sensitive subpopulations (groups of more highly susceptible individuals) from adverse health effects in the event of exposure (OEHHA 2008).

The cancer risk methodology described in exposure assessment and stochastic analysis TSD and the OEHHA guidance manual accounts for the higher sensitivity of infants and children by applying age-specific daily breathing rates (DBRs) and age-sensitivity factors (ASFs). According to the TSD, “accounting for effects of early-in-life exposure requires accounting for both the increased potency of early in life exposure to carcinogens and the greater exposure on a per [kilogram] body weight that occurs early in life due to behavioral and physiological differences between infants and children, and adults” (OEHHA 2012). In part, early-life periods are accounted for through the use of age-sensitivity factors. Compared to the previous guidance, which relied on a single breathing rate for

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

all ages, the revised guidance also includes age-specific DBRs that reflect the differences between those for infants, children, and adults.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

3 MODELING METHODOLOGY

3.1 Construction Diesel Particulate Matter Emissions Estimation

Construction of the Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, and soil disturbance) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Emissions from the construction phase of the Project were estimated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2. Notably, for risk assessment purposes, PM₁₀ in diesel exhaust is considered DPM. The following summarizes the methodology used to develop the emissions inventory, as described in the *Edwards Air Force Base Solar Facility Air Quality and Greenhouse Gas Emissions Methodology and Emissions Calculations Memorandum* (Dudek 2018).

Construction of the solar facility is anticipated to last up to two to four years, with individual phases built on a rolling construction schedule. Actual development of the Project site is dependent on market conditions upon Project approval. For purposes of estimating Project emissions, and based on information provided by the applicant, it is assumed that construction of the Project would commence in July 2018¹ and would last approximately 24 months, ending in July 2020. The phasing of construction activities described below represents a worst-case scenario, with all phases of solar facility construction happening directly after one another. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Solar Facility Construction – July 2018 – July 2020 (24 Months)
- Gen-tie Construction – October 2019 – July 2020 (9 months)

For the analysis, it was generally assumed that heavy construction equipment would be operating at the site for approximately 8 hours per day, 5 days per week (22 days per month), during Project construction. It was assumed there would be an average of 550 peak daily workers for a total of 1,100 one-way trips, 339 daily miscellaneous delivery trips, 504 daily water truck trips (vendor trucks) and 10 daily panel delivery trips (haul trucks). No additional haul truck trips for earthwork materials were assumed because earthwork volumes are anticipated to be balanced on site. Trip lengths for worker, vendor, and haul trips were assumed to be 30, 7.3, and 114 miles respectively. Table 1 depicts the off-road equipment and on-road vehicles assumed in the analysis.

¹ The analysis assumes a construction start date of July 2018, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

**Table 1
Construction Equipment and On-Road Vehicles**

Construction Phase	Equipment			One-way Vehicle Trips		
	Equipment Type	Quantity	Usage Hours	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips
Solar Facility Construction	Excavators	9	1.1	1,100	843	5,200
	Forklifts	25	0.5			
	Generator sets	4	8			
	Off-highway tractors	3	0.3			
	Off-highway tractors	3	0.5			
	Other construction equipment	30	2			
	Other construction equipment	20	1.1			
	Other material handling equipment	10	1.5			
	Rubber tired dozers	2	1.4			
	Scrapers	4	1.6			
	Tractors/loaders/backhoes	35	0.7			
	Trenchers	20	1.2			
Gen-tie Construction	Cranes	1	1.6	116	60	0
	Excavators	1	6			
	Other construction equipment	2	2			
	Other construction equipment	2	4			
	Other material handling equipment	1	4			
	Tractors/loaders/backhoes	1	4			

Based on the CalEEMod annual emissions, Project construction would result in emissions of approximately 1.1 pounds per hour and 2,368.4 pounds per year of DPM for the unmitigated scenario. With mitigation, it was estimated that Project construction would result in 0.7 pounds per hour and 1,543.0 pounds per year of DPM. Hourly and annual estimates of DPM are included in Appendix A of this HRA.

3.2 Operational Diesel Particulate Matter Emissions Estimation

Mobile sources associated with Project operations would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the Project site. Motor vehicles may be fueled with gasoline, diesel, or alternative fuels. Based on conservative estimates for vehicular travel, the Project is anticipated to have up to 8,778 trips per year during operation, accounting for the commutes and performance of regular inspection and maintenance activities by 24 full-time-

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

equivalent staff. Estimated activity data from the applicant and CalEEMod were used to calculate emissions from this source category.

Additionally, to conduct maintenance activities on-site, including but not limited to panel replacement and repair, it was assumed that two forklifts and two backhoes would be employed for 8 hours a day, 12 days a year. This information, in conjunction with CalEEMod default values, were utilized to estimate operational off-road vehicle emissions in CalEEMod. Based on the CalEEMod annual emissions, Project operations would result in emissions of approximately 0.08 pounds per hour and 7.8 hours per year. Hourly and annual estimates of DPM are included in Appendix A of this HRA.

3.3 Dispersion Model

Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentration of selected pollutants at specific downwind ground-level points, such as residential or off-site workplace receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models have the capability to take all of these factors into consideration when calculating downwind ground-level pollutant concentrations.

Dispersion modeling was performed for the HRAs using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD), which is the model EKAPCD requires for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, building downwash, and both simple and complex terrain. Discrete receptors were identified at the nearest off-site receptors for purposes of the HRA. Principal parameters of AERMOD for the Project construction include the following:

- **Dispersion Modeling:** The air dispersion model used was AERMOD, Version 16216r, with the Lakes Environmental Software implementation/user interface, AERMOD View, Version 9.5.0. AERMOD was run with all sources emitting unit emissions (1 g/s) to obtain the "X/Q" values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength, and is used as a way to simplify the representation of

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

emissions from many sources. The X/Q values of ground-level concentrations (GLCs) were determined for construction emissions using AERMOD and the maximum concentrations determined for the 1-hour and Period averaging periods.

- **Meteorological Data:** The latest 5-year meteorological data (2009–2013) for the Edwards AFB station from the CARB were used. A windrose is provided for this station on Figure 1.
- **Urban and Rural Options:** Urban areas typically have more surface roughness and structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. The rural dispersion option was selected due to the undeveloped nature of the Project site.
- **Modeling Options:** The modeling included the use of standard regulatory default options.
- **Terrain Characteristics:** The terrain in the vicinity of the Project site is generally flat. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.
- **Modeling Grid:** A uniform Cartesian grid of 3,000 meters by 3,000 meters was used to determine the areas of maximum ambient pollutant concentrations.
- **Discrete Receptors:** Sensitive receptors include hospitals, schools, parks, playgrounds, daycare centers, nursing homes, convalescent facilities, and residential areas. Proximate sensitive receptors are scattered rural residential land uses, with the nearest directly across from the Project site, along Trotter Avenue and Lone Butte Road.
- **Source Release Scenarios:** Air dispersion modeling of construction and operational activities was conducted using emissions generated using the CalEEMod. As a worst-case screening approach, a single area source was modeled for the construction area and operational activity area emissions, which included all PM₁₀ exhaust from off-road equipment and on-road trucks. This approach is conservative since it concentrates emissions from on-road trucks to the Project site, in proximity to sensitive receptors. Figure 2 shows the hypothetical construction area modeled and the proximate discrete sensitive receptors, in relation to the total Project site area. Figure 3 shows the hypothetical operational area modeled and the proximate discrete sensitive receptors, in relation to the total Project site area. As shown on Figures 2 and 3, the blue polygon is the area source representation of the hypothetical annual construction or operational area used to screen health risk impacts per a worst-case assumption, and pink dots represent sensitive receptors. Although not all pink dots locate a sensitive receptor, a grid was established along Lone Butte Road and Trotter Avenue to conservatively capture the maximum DPM concentrations and associated risk.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

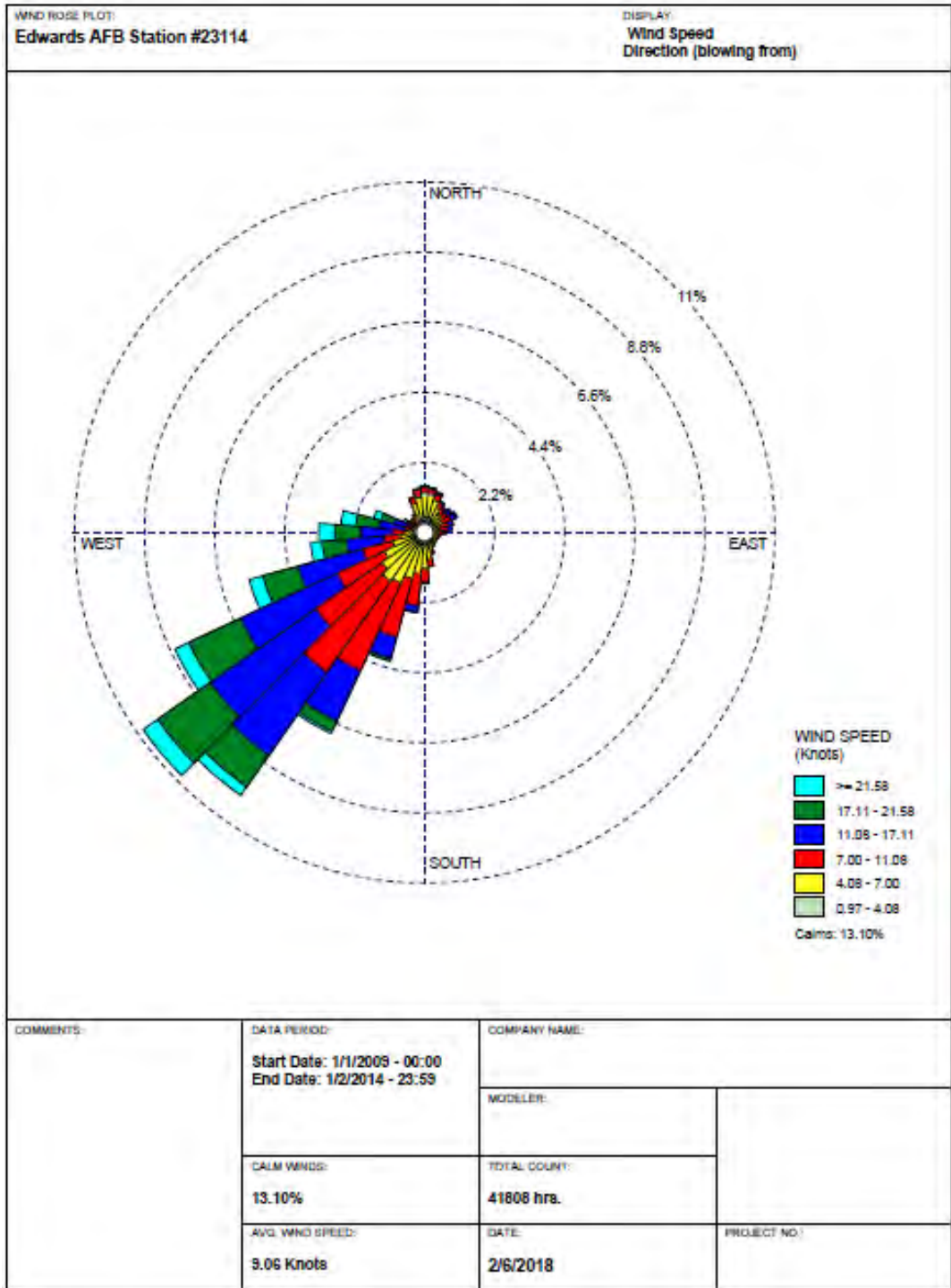
For modeling construction emissions impacts using AERMOD, based on number of concurrent activities and equipment usage for the Project, it was assumed that approximately 200-acres of the total site area would have active construction activities at any one time. For modeling operational emissions impacts, it was assumed that annual activities would be concentrated in a 1-acre area. For both construction and operations, it was assumed the respective emissions source area would be located in the northwest corner of the Project site (nearest to residential receptors) with an initial vertical dimension of 1.2 meters and release height of 5 meters for diesel equipment and truck exhaust. Notably, this approach quantifies TAC exposure and health risk with conservative assumptions in order to screen potential impacts. Conservative assumptions incorporated into the analysis include:

- Concentrating area of TAC release under the construction and operational scenarios to a small portion (200-acres and 1-acre, respectively) of the total 4,000-acre solar facility site. This is a conservative assumption since the larger the area, the greater the geographical spread of emissions, which would reduce estimated exposure and health risk at nearby residences.
- The total gen-tie construction emissions were also combined with the solar facility emissions, which is conservative since the gen-tie construction would be linear and would not expose the same individual residents to prolonged TAC exposure durations.
- As mentioned previously, combining the total on-road PM₁₀ exhaust onto the Project site is conservative since it concentrates emissions on-site rather than along the entire trip length of the vehicles.

Overall, this screening approach was taken to determine hypothetical worst-case risk for construction and operations such that if the conservatively estimated health risk results are less than significant, then actual potential health risk at proximate residents would also be less than significant.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

Figure 1
Windrose for Edwards Air Force Base Meteorological Station



Source: Lakes Environmental 2017.

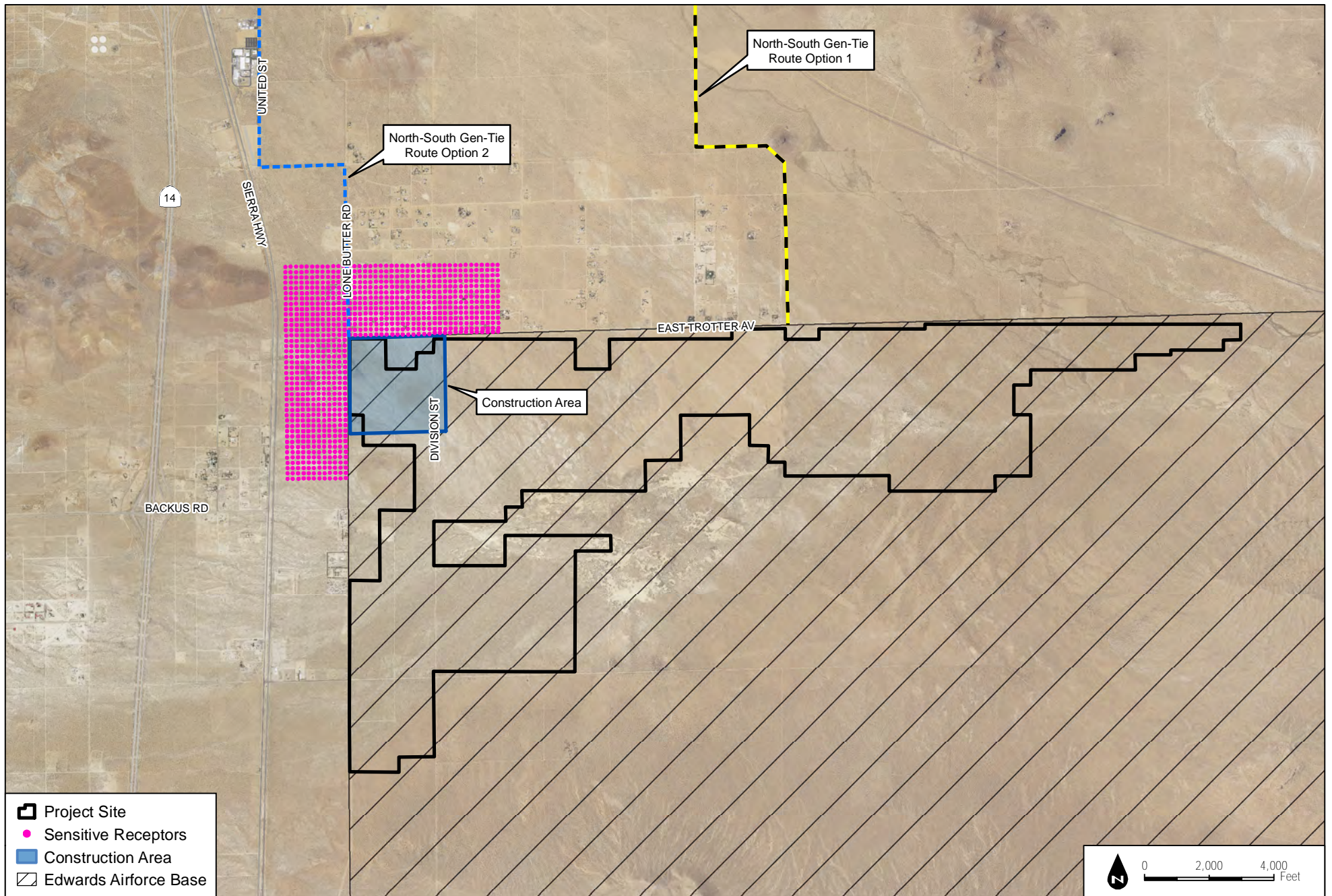


Figure 2: CONSTRUCTION AREA AND PROXIMATE SENSITIVE RECEPTOR LOCATIONS

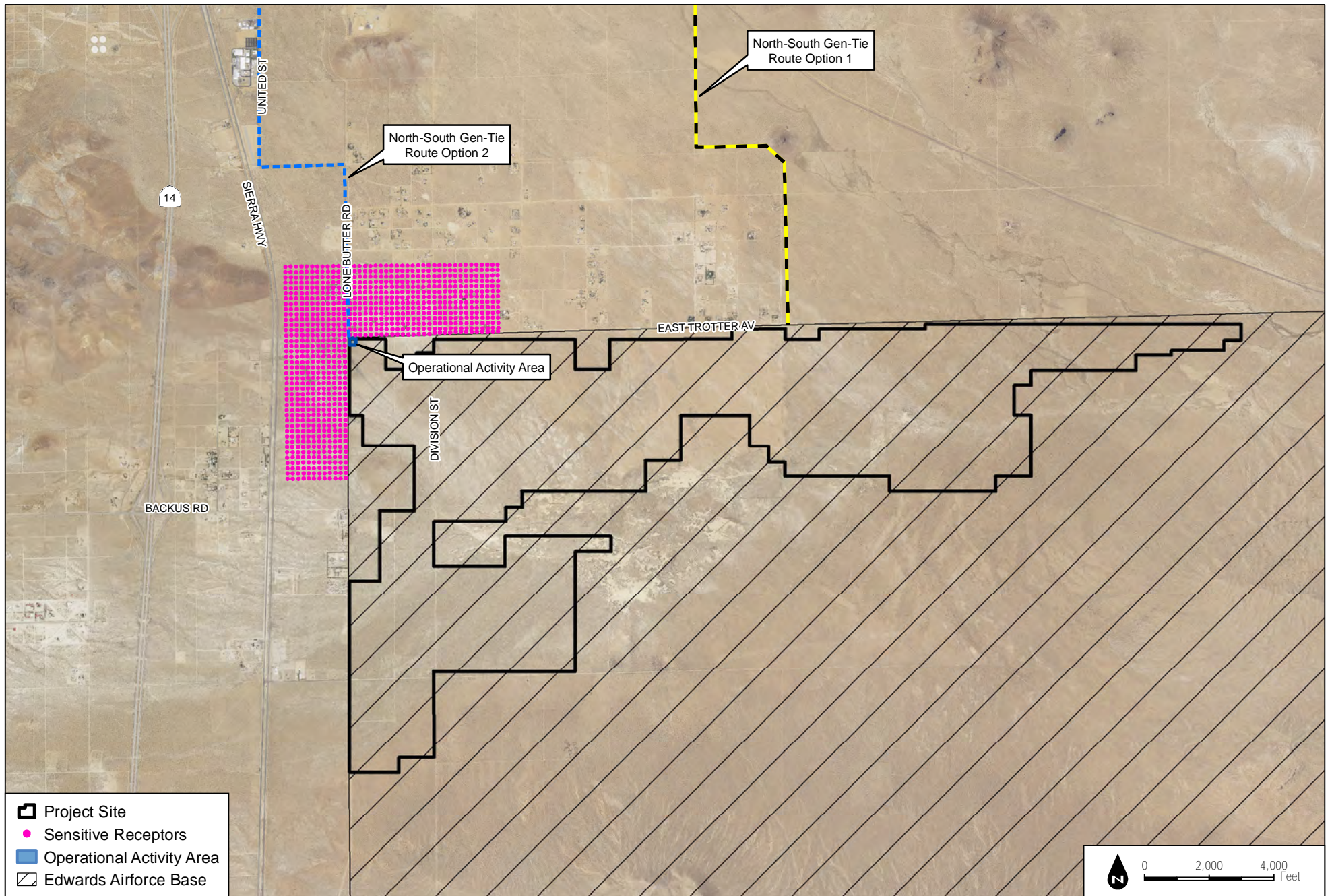


Figure 3: OPERATIONAL ACTIVITY AREA AND PROXIMATE SENSITIVE RECEPTOR LOCATIONS

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

3.4 Health Risk Assessment Methodology

OEHHA's Risk Assessment Guidelines (2015) were used to prepare the HRA. For risk assessment purposes, PM₁₀ in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on-road vehicle exhaust (e.g., heavy-duty diesel trucks). These emissions could result in elevated concentrations of DPM at nearby receptors, which could lead to an increase in the risk of cancer or other health impacts. Consequently, an HRA was performed to determine the extent of increased cancer risks and HIs at the maximally exposed receptors from Project construction and operations. The dispersion of DPM was modeled using the AERMOD dispersion model, along with meteorological data provided by the CARB for the Edwards AFB, and the resultant health impacts were calculated using the CARB HARP 2. For the residential health risk associated with construction, the HRA assumes exposure would start in the third trimester of pregnancy and occur 8 hours per day, 5 days per week, for 24 months to account for the short-term construction activity duration. For the residential health risk associated with operations, the HRA assumes exposure would start in the third trimester of pregnancy and occur 8 hours per day, 12 days per year, for 30 years to account for the long-term activity duration.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

4 HEALTH RISK ASSESSMENT RESULTS

4.1 Construction Health Risk

Based on the HRA results included in Appendix A, the maximally exposed individual residence (MEIR) would be located directly north of the Project boundary along Trotter Avenue. Potential health risks at the MEIR resulting from construction activities are shown in Table 2.

**Table 2
Construction Related Health Risk Assessment**

Receptor	Cancer Risk (per Million)	Chronic Hazard Index
<i>Unmitigated</i>		
MEIR	6.5	0.004
<i>EKAPCD Significance Criteria</i>	10	1
Exceed Threshold?	No	No
<i>Mitigated</i>		
MEIR	4.2	0.003
<i>EKAPCD Significance Criteria</i>	10	1
Exceed Threshold?	No	No

Note: MEIR = Maximally Exposed Individual Resident; EKAPCD = Eastern Kern Air Pollution Control District

See Appendix A for AERMOD and HARP 2 model outputs.

DPM exposure at receptors was modeled with AERMOD, the results of which were then input into HARP 2 to generate health risk estimates. For the MEIR, exposure was assumed to begin during the third trimester of pregnancy for a duration of 8 hours per day, 5 days per week, for 24 months to account for the short-term construction activity duration. The Mitigated scenario includes Tier 3 engines for off-road equipment.

As depicted in Table 2, unmitigated Project construction would emit TACs that would result in cancer risk and chronic HI at the MEIR below the EKAPCD thresholds of 10 in a million and 1, respectively. Mitigation would include Tier 3 engines for off-road equipment, which would reduce DPM and health risk as depicted in Table 2. Notably, this analysis incorporates multiple conservative assumptions into a hypothetical construction scenario, as described in Section 3.3, in order to screen potential health risk impacts. Overall, even with this conservative screening scenario, impacts associated with the Project’s potential to expose sensitive receptors to substantial TACs due to the Project-generated construction emissions would be less than significant.

4.2 Operational Health Risk

Based on the HRA results included in Appendix A, the MEIR would be located directly north of the Project boundary along Trotter Avenue. Potential health risks at the MEIR resulting from construction activities are shown in Table 3.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

Table 3
Operational Related Health Risk Assessment

Receptor	Cancer Risk (per Million)	Chronic Hazard Index
<i>Unmitigated</i>		
MEIR	0.09	0.00002
<i>EKAPCD Significance Criteria</i>	10	1
Exceed Threshold?	No	No

Note: MEIR = Maximally Exposed Individual Resident; EKAPCD = Eastern Kern Air Pollution Control District
See Appendix A for AERMOD and HARP 2 model outputs.

DPM exposure at receptors was modeled with AERMOD, the results of which were then input into HARP 2 to generate health risk estimates. For the MEIR, exposure was assumed to begin during the third trimester of pregnancy for a duration of 8 hours per day, 12 days per year, for 30 years to account for the long-term activity duration.

As depicted in Table 3, Project operations would emit TACs that would result in cancer risk and chronic HI at the MEIR below the EKAPCD thresholds of 10 in a million and 1, respectively. Notably, this analysis incorporates multiple conservative assumptions into a hypothetical operational scenario, as described in Section 3.3, in order to screen potential health risk impacts. Even with this conservative screening scenario, impacts associated with the Project’s potential to expose sensitive receptors to substantial TACs due to the Project-generated operational emissions would be less than significant.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

5 CONCLUSIONS

Based on this analysis, the closest sensitive receptors to the Project would not be exposed to TACs at levels that would result in health risk above significance thresholds established by the EKAPCD during short-term construction or long-term operations. The results determined in this analysis reflect conservative estimates of source emissions and exhaust characteristics, available meteorological data near the Project site, and the use of currently approved air quality models. Given the limits of available tools for such an analysis, the actual impacts may vary from the estimates in this assessment. However, the combination of conservative hypothetical construction and operational scenarios, in addition to the use of the AERMOD dispersion model and the health impact calculations required by the OEHHA, would tend to over predict impacts, such that these analyses produce conservative (i.e., health-protective) results. Accordingly, the health impacts are not expected to be higher than those estimated in this assessment.

Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

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Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

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Construction and Operational Health Risk Assessment for the Edwards Air Force Base Solar Facility Project

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APPENDIX A
*AERMOD, Emissions Inventory,
and HARP 2 Output Files*

AERMOD Outputs

Construction

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 2/6/2018
** File: C:\Lakes\AERMOD View\EAFB_Solar_Const\EAFB_Solar_Const.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\EAFB_Solar\EAFB_Solar.isc
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL EAFB_Solar_Const.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION AREA1          AREA          395857.194   3869042.791       776.000
** Source Parameters **
  SRCPARAM AREA1          1.2346E-06      5.000   900.000   900.000
0.000      1.200

** Variable Emissions Type: "By Season / Hour / Seven Days (SHRDOW7)"
** Variable Emission Scenario: "Scenario 1"
** Season = Winter; Day of Week = Monday
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
  EMISFACT AREA1          SHRDOW7 1.0 1.0 1.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring; Day of Week = Monday
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
  EMISFACT AREA1          SHRDOW7 1.0 1.0 1.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer; Day of Week = Monday
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
  EMISFACT AREA1          SHRDOW7 1.0 1.0 1.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT AREA1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall; Day of Week = Monday

```


EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
EMISFACT	AREA1	SHRDOW7	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Friday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
EMISFACT	AREA1	SHRDOW7	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Friday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
EMISFACT	AREA1	SHRDOW7	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Saturday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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**	Season = Spring;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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**	Season = Summer;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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**	Season = Fall;	Day of Week = Sunday									
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	AREA1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

```
INCLUDED EAFB_Solar_Const.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "723810 - Edwards AFB MetData - CARB\723810.SFC"
PROFFILE "723810 - Edwards AFB MetData - CARB\723810.PFL"
SURFDATA 23114 2009
UAIRDATA 3190 2009
PROFBASE 704.4 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST EAFB_SOLAR_CONST.AD\01H1GALL.PLT 31
PLOTFILE PERIOD ALL EAFB_SOLAR_CONST.AD\PE00GALL.PLT 32
SUMMFILE EAFB_Solar_Const.sum
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****
```


*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** 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 RURAL Dispersion Only.

**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.

**Other Options Specified:

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: PM₁₀

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

and Calculates PERIOD Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and
1339 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 1 AREA type source(s)
and: 0 LINE 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: 14134

**Output Options Selected:

Model Outputs Tables of PERIOD 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) = 704.40 ;
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 = 3.7 MB of RAM.

**Detailed Error/Message File: EAFB_Solar_Const.err
**File for Summary of Results: EAFB_Solar_Const.sum

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE      2
*** MODELOPTs:   RegDEFAULT CONC  ELEV  RURAL

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*** AREA SOURCE DATA

X-DIM SOURCE OF AREA ID (METERS)	Y-DIM OF AREA (METERS)	NUMBER PART. CATS. (DEG.)	EMISSION RATE (GRAMS/SEC /METER**2) (METERS)	COORD (SW CORNER)		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)
				URBAN SOURCE (METERS)	EMISSION RATE SCALAR VARY BY		
AREA1 900.00	900.00	0 0.00	0.12346E-05 1.20	395857.2 NO	3869042.8 SHRDOW7	776.0	5.00

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 3
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE

GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----

ALL	AREA1	,
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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE      4
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

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```

SOURCE ID = AREA1           ; SOURCE TYPE = AREA           :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR

```

```

-----
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

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SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

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SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

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SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

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SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

```


1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .0000E+00 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = WINTER ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SPRING ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF

WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = WINTER ; DAY OF

WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5
.0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SPRING; DAY OF

WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00			
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = SUMMER; DAY OF

WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00			
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00			
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 5

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** GRIDDED RECEPTOR NETWORK

SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

394711.8, 394861.8, 395011.8, 395161.8, 395311.8, 395461.8,
395611.8, 395761.8, 395911.8, 396061.8,
396211.8, 396361.8, 396511.8, 396661.8, 396811.8, 396961.8,
397111.8, 397261.8, 397411.8, 397561.8,
397711.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3868011.5, 3868161.5, 3868311.5, 3868461.5, 3868611.5, 3868761.5,
3868911.5, 3869061.5, 3869211.5, 3869361.5,
3869511.5, 3869661.5, 3869811.5, 3869961.5, 3870111.5, 3870261.5,
3870411.5, 3870561.5, 3870711.5, 3870861.5,
3871011.5,

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE      6
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** NETWORK ID: UCART1   ; NETWORK

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TYPE: GRIDCART ***

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* ELEVATION HEIGHTS IN

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METERS *

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Y-COORD (METERS)	X-COORD	X-COORD	X-COORD	X-COORD	X-COORD
(METERS)	394711.79	394861.79	395011.79	395161.79	
	395311.79	395461.79	395611.79	395761.79	395911.79
3871011.46	790.40	790.00	788.30	786.30	
786.00	785.00	784.10	784.00	783.00	
3870861.46	791.00	790.00	788.00	786.00	
785.00	784.40	784.00	783.00	782.00	
3870711.46	792.00	790.90	788.30	786.00	
785.00	784.00	783.00	782.00	781.00	
3870561.46	804.10	799.10	794.80	786.00	
785.00	783.30	782.10	781.30	780.40	
3870411.46	804.70	799.60	801.90	786.60	
784.30	783.00	782.00	781.00	780.00	
3870261.46	786.30	786.00	786.00	785.00	
783.10	782.00	781.00	780.30	780.00	
3870111.46	785.40	785.00	784.10	783.10	
782.10	781.40	781.00	780.00	779.00	
3869961.46	785.00	784.00	783.00	782.30	
781.40	780.30	780.00	779.00	778.40	
3869811.46	784.10	784.00	783.00	782.00	
781.00	780.00	779.00	778.40	778.00	
3869661.46	784.00	783.30	783.00	781.30	
780.20	780.00	779.00	778.00	777.00	
3869511.46	784.00	783.10	782.30	781.00	
780.00	779.30	778.30	777.30	777.00	
3869361.46	784.00	783.00	782.00	781.00	
780.00	779.00	778.00	777.00	777.00	
3869211.46	784.00	783.00	782.00	780.40	
780.00	779.00	778.00	777.00	776.00	
3869061.46	784.00	783.00	781.30	780.00	
779.30	779.00	778.00	777.00	776.00	
3868911.46	784.00	783.00	781.90	780.90	
779.30	778.30	777.10	776.40	776.00	
3868761.46	784.00	783.00	781.30	780.00	
779.10	778.00	777.00	776.00	776.00	

3868611.46	|	784.00	782.40	781.00	780.00
779.00	777.30	776.00	774.30	774.00	
3868461.46	|	784.00	782.30	781.00	780.00
778.40	777.00	775.10	774.00	773.00	
3868311.46	|	784.00	782.00	780.10	779.30
778.00	776.30	774.30	774.00	773.00	
3868161.46	|	783.30	782.00	781.00	779.10
778.00	776.00	774.30	773.30	772.10	
3868011.46		783.30	782.00	780.30	779.00
777.30	775.30	774.10	773.00	772.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE      7
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** NETWORK ID: UCART1 ; NETWORK

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TYPE: GRIDCART ***

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* ELEVATION HEIGHTS IN

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METERS *

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Y-COORD (METERS)	X-COORD	396061.79	396211.79	396361.79	396511.79
396661.79	396811.79	396961.79	397111.79	397261.79	
3871011.46	782.00	782.00	781.00	781.00	
780.00	780.00	779.00	779.00	778.80	
3870861.46	781.10	781.00	781.00	780.00	780.00
780.00	779.00	779.00	778.00	778.20	
3870711.46	781.00	780.00	780.00	780.00	779.40
779.10	778.40	778.00	778.00	777.30	
3870561.46	780.00	779.20	779.00	779.00	778.10
778.00	777.00	777.00	777.00	776.60	
3870411.46	779.00	778.40	778.00	778.00	777.40
777.00	777.00	777.00	776.00	775.70	
3870261.46	779.00	778.00	777.40	777.40	777.00
776.20	776.20	776.00	775.00	774.60	
3870111.46	778.00	777.40	777.00	777.00	776.00
776.00	775.20	775.00	774.00	773.90	
3869961.46	778.00	777.00	776.00	776.00	775.10
774.00	774.40	774.00	774.00	773.00	
3869811.46	777.00	776.00	775.30	775.30	774.10
774.00	774.00	773.40	773.00	772.10	
3869661.46	777.00	776.00	774.30	774.30	774.00
773.00	773.00	772.00	771.00	771.50	
3869511.46	776.10	775.00	774.00	774.00	773.30
773.00	772.00	771.00	771.00	770.90	
3869361.46	775.30	774.00	774.00	774.00	773.00
772.00	771.00	771.00	770.40	770.20	
3869211.46	775.00	774.00	773.10	773.10	772.10
771.00	770.40	770.00	769.20	769.60	
3869061.46	774.30	773.30	772.10	772.10	771.00
771.00	770.00	769.10	769.00	769.40	
3868911.46	774.00	773.00	771.00	771.00	771.00
770.10	770.00	769.00	769.00	768.50	
3868761.46	783.70	784.40	772.10	772.10	771.00
770.00	769.00	769.00	768.20	767.80	

3868611.46	|	779.10	781.70	773.40	771.30
769.40	768.10	768.00	768.00	767.00	
3868461.46	|	772.20	772.20	772.10	770.10
769.00	768.00	767.00	766.40	766.40	
3868311.46	|	770.90	771.00	770.40	769.10
768.00	767.10	766.40	766.00	765.80	
3868161.46	|	771.00	770.00	770.00	769.00
767.30	766.00	766.00	766.00	765.40	
3868011.46		771.00	770.00	770.00	769.00
767.90	766.00	766.00	765.10	765.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE      8
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** NETWORK ID: UCART1 ; NETWORK

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TYPE: GRIDCART ***

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* ELEVATION HEIGHTS IN

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```

METERS *

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Y-COORD (METERS)	X-COORD		
(METERS)	397411.79	397561.79	397711.79
3871011.46	778.20	777.20	776.90
3870861.46	777.20	777.30	776.70
3870711.46	777.00	776.60	776.00
3870561.46	776.10	776.00	775.50
3870411.46	775.20	775.20	774.60
3870261.46	774.10	774.30	774.00
3870111.46	773.60	773.60	773.00
3869961.46	772.70	772.40	771.60
3869811.46	771.80	771.50	770.90
3869661.46	771.10	771.10	770.60
3869511.46	771.10	770.40	769.90
3869361.46	770.00	769.70	769.30
3869211.46	769.10	768.80	768.50
3869061.46	768.40	767.90	767.90
3868911.46	768.20	767.60	766.90
3868761.46	767.30	766.60	766.00
3868611.46	766.30	765.40	765.10
3868461.46	765.70	765.00	764.70
3868311.46	765.40	765.00	764.70
3868161.46	765.00	765.00	764.70
3868011.46	765.00	765.00	764.70

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE 9
*** MODELOPTs:   RegDEFAULT CONC ELEV RURAL

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*** NETWORK ID: UCART1 ; NETWORK

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TYPE: GRIDCART ***

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* HILL HEIGHT SCALES IN

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```

METERS *

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Y-COORD (METERS)	X-COORD (METERS)	X-COORD (METERS)	X-COORD (METERS)	X-COORD (METERS)
395311.79	395461.79	395611.79	395761.79	395911.79
3871011.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3870861.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3870711.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3870561.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3870411.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3870261.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3870111.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3869961.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3869811.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3869661.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3869511.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	1275.00
3869361.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1275.00	777.00
3869211.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	1273.00	776.00
3869061.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	1275.00	777.00	776.00
3868911.46	1275.00	1275.00	1275.00	1275.00
1275.00	1275.00	777.10	776.40	776.00
3868761.46	1275.00	1275.00	1275.00	1275.00
1275.00	1245.00	777.00	776.00	802.00

3868611.46	|	1275.00	1275.00	1275.00	1275.00
1275.00	777.30	776.00	774.30	802.00	
3868461.46	|	1275.00	1275.00	1275.00	1275.00
778.40	777.00	775.10	774.00	773.00	
3868311.46	|	1275.00	1275.00	1275.00	779.30
778.00	776.30	774.30	774.00	773.00	
3868161.46	|	1275.00	1245.00	781.00	779.10
778.00	776.00	774.30	773.30	772.10	
3868011.46		1245.00	782.00	780.30	779.00
777.30	775.30	774.10	773.00	772.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN

METERS *

Y-COORD (METERS)	X-COORD				
396661.79	396811.79	396961.79	397111.79	396361.79	396511.79
-----	-----	-----	-----	-----	-----
3871011.46	1275.00	1275.00	1275.00	781.00	
780.00	780.00	779.00	779.00	778.80	
3870861.46	1275.00	1275.00	781.00	780.00	
780.00	779.00	779.00	778.00	778.20	
3870711.46	1275.00	1275.00	780.00	779.40	
779.10	778.40	778.00	778.00	777.30	
3870561.46	1275.00	1275.00	779.00	778.10	
778.00	777.00	777.00	777.00	776.60	
3870411.46	1275.00	1275.00	778.00	777.40	
777.00	777.00	777.00	776.00	775.70	
3870261.46	1275.00	1275.00	777.40	777.00	
776.20	776.20	776.00	775.00	774.60	
3870111.46	1275.00	777.40	777.00	776.00	
776.00	775.20	775.00	774.00	773.90	
3869961.46	1275.00	777.00	776.00	775.10	
774.00	774.40	774.00	774.00	773.00	
3869811.46	1275.00	776.00	775.30	774.10	
774.00	774.00	773.40	773.00	772.10	
3869661.46	777.00	776.00	774.30	774.00	
773.00	773.00	772.00	771.00	771.50	
3869511.46	776.10	775.00	774.00	773.30	
773.00	772.00	771.00	771.00	770.90	
3869361.46	775.30	774.00	774.00	773.00	
772.00	771.00	771.00	770.40	770.20	
3869211.46	775.00	774.00	773.10	772.10	
771.00	770.40	770.00	769.20	769.60	
3869061.46	774.30	773.30	772.10	771.00	
771.00	770.00	769.10	769.00	769.40	
3868911.46	802.00	802.00	802.00	771.00	
770.10	770.00	769.00	769.00	768.50	
3868761.46	802.00	802.00	802.00	771.00	
770.00	769.00	769.00	768.20	767.80	

3868611.46	|	802.00	802.00	802.00	771.30
769.40	768.10	768.00	768.00	767.00	
3868461.46	|	802.00	802.00	772.10	770.10
769.00	768.00	767.00	766.40	766.40	
3868311.46	|	770.90	771.00	770.40	769.10
768.00	767.10	766.40	766.00	765.80	
3868161.46	|	771.00	770.00	770.00	769.00
767.30	766.00	766.00	766.00	765.40	
3868011.46		771.00	770.00	770.00	769.00
767.90	766.00	766.00	765.10	765.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN

METERS *

Y-COORD (METERS)	X-COORD		
(METERS)	397411.79	397561.79	397711.79
3871011.46	778.20	777.20	776.90
3870861.46	777.20	777.30	776.70
3870711.46	777.00	776.60	776.00
3870561.46	776.10	776.00	775.50
3870411.46	775.20	775.20	774.60
3870261.46	774.10	774.30	774.00
3870111.46	773.60	773.60	773.00
3869961.46	772.70	772.40	771.60
3869811.46	771.80	771.50	770.90
3869661.46	771.10	771.10	770.60
3869511.46	771.10	770.40	769.90
3869361.46	770.00	769.70	769.30
3869211.46	769.10	768.80	768.50
3869061.46	768.40	767.90	767.90
3868911.46	768.20	767.60	766.90
3868761.46	767.30	766.60	766.00
3868611.46	766.30	765.40	765.10
3868461.46	765.70	765.00	764.70
3868311.46	765.40	765.00	764.70
3868161.46	765.00	765.00	764.70
3868011.46	765.00	765.00	764.70

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

(395270.7, 3868626.2, 779.0, 1275.0, 0.0); (

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(395370.7, 3868626.2, 778.2, 1245.0, 0.0); (

395420.7, 3868626.2, 778.0, 778.0, 0.0); (

(395470.7, 3868626.2, 777.0, 777.0, 0.0); (

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(395570.7, 3868626.2, 776.4, 776.4, 0.0); (

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(395670.7, 3868626.2, 775.2, 775.2, 0.0); (

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(395370.7, 3868976.2, 779.0, 1275.0, 0.0); (

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395520.7, 3868976.2, 778.0, 1275.0, 0.0);

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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(395370.7, 3869276.2, 779.5, 1275.0, 0.0); (

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(395770.7, 3869276.2, 777.0, 1275.0, 0.0); (

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(395770.7, 3869326.2, 777.0, 1275.0, 0.0); (

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PAGE 14

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 *** ***
*** 22:26:59

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PAGE 15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 16

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 17

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMET - VERSION 14134 ***   ***
***   22:26:59

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PAGE 18

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   02/06/18
*** AERMET - VERSION 14134 ***   ***
***   22:26:59

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PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   02/06/18
*** AERMET - VERSION 14134 ***   ***
***   22:26:59

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PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE 23

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** UP TO THE FIRST 24 HOURS OF

METEOROLOGICAL DATA ***

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Surface file:   723810 - Edwards AFB MetData - CARB\723810.SFC
Met Version:   14134
Profile file:   723810 - Edwards AFB MetData - CARB\723810.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23114           Upper air station no.:
3190
Name: UNKNOWN           Name:
UNKNOWN
Year: 2009           Year:
2009

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First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
09	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.8	2.0							
09	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.6	2.0							
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.5	2.0							
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.1	2.0							
09	01	01	1	05	-6.5	0.087	-9.000	-9.000	-999.	62.	8.5	0.18	
1.43	1.00	1.76	283.	10.0	271.4	2.0							
09	01	01	1	06	-11.7	0.117	-9.000	-9.000	-999.	96.	11.5	0.18	
1.43	1.00	2.36	232.	10.0	271.5	2.0							
09	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	270.8	2.0							
09	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	0.56	0.00	0.	10.0	271.9	2.0							
09	01	01	1	09	22.2	-9.000	-9.000	-9.000	55.	-999.	-99999.0	0.16	
1.43	0.33	0.00	0.	10.0	274.5	2.0							
09	01	01	1	10	77.9	0.283	0.668	0.009	128.	361.	-24.3	0.18	
1.43	0.25	2.36	201.	10.0	277.6	2.0							
09	01	01	1	11	117.0	-9.000	-9.000	-9.000	216.	-999.	-99999.0	0.16	
1.43	0.22	0.00	0.	10.0	280.1	2.0							
09	01	01	1	12	136.4	0.247	1.087	0.009	315.	295.	-9.3	0.20	
1.43	0.22	1.76	86.	10.0	282.1	2.0							
09	01	01	1	13	135.3	0.235	1.200	0.008	427.	274.	-8.0	0.16	
1.43	0.22	1.76	999.	10.0	284.2	2.0							

09	01	01	1	14	113.6	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.16
1.43	0.23	0.00	0.	10.0	285.5	2.0						
09	01	01	1	15	72.4	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.16
1.43	0.26	0.00	0.	10.0	286.8	2.0						
09	01	01	1	16	15.5	-9.000	-9.000	-9.000	633.	-999.	-99999.0	0.16
1.43	0.35	0.00	0.	10.0	287.1	2.0						
09	01	01	1	17	5.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	0.64	0.00	0.	10.0	284.1	2.0						
09	01	01	1	18	-4.9	0.077	-9.000	-9.000	-999.	51.	7.7	0.20
1.43	1.00	1.50	97.	10.0	281.1	2.0						
09	01	01	1	19	-4.7	0.074	-9.000	-9.000	-999.	48.	7.3	0.17
1.43	1.00	1.50	174.	10.0	279.1	2.0						
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	277.1	2.0						
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	275.1	2.0						
09	01	01	1	22	-16.9	0.158	-9.000	-9.000	-999.	151.	19.5	0.18
1.43	1.00	2.60	222.	10.0	276.1	2.0						
09	01	01	1	23	-16.8	0.156	-9.000	-9.000	-999.	148.	18.8	0.18
1.43	1.00	2.60	210.	10.0	274.1	2.0						
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	274.1	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	-999.	-99.00	272.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

3868911.46	|	0.01727	0.02175	0.02745	0.03591
0.04797	0.06650	0.09629	0.14743	0.22523	
3868761.46	|	0.01912	0.02331	0.02879	0.03686
0.04753	0.06222	0.08199	0.10828	0.14007	
3868611.46	|	0.02036	0.02428	0.02968	0.03629
0.04477	0.05558	0.06864	0.08274	0.09912	
3868461.46	|	0.02087	0.02426	0.02888	0.03418
0.04089	0.04898	0.05715	0.06616	0.07570	
3868311.46	|	0.02044	0.02317	0.02717	0.03160
0.03713	0.04302	0.04821	0.05472	0.06101	
3868161.46	|	0.01920	0.02134	0.02518	0.02924
0.03369	0.03792	0.04167	0.04629	0.05037	
3868011.46		0.01751	0.01972	0.02366	0.02723
0.03075	0.03373	0.03660	0.03991	0.04260	

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      02/06/18
*** AERMET - VERSION 14134 ***      ***
***      22:26:59

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PAGE 25

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S):      AREA1 ,

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*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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Y-COORD (METERS)	X-COORD				
(METERS)					
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396811.79	396961.79	397111.79	397261.79		
-----	-----	-----	-----	-----	-----
3871011.46	0.01619	0.01977	0.02346	0.02671	
0.03081	0.03497	0.03806	0.03965	0.04032	
3870861.46	0.01936	0.02450	0.02905	0.03406	
0.03945	0.04455	0.04747	0.04856	0.04812	
3870711.46	0.02429	0.03079	0.03772	0.04516	
0.05217	0.05781	0.06018	0.05992	0.05752	
3870561.46	0.03118	0.04083	0.05177	0.06267	
0.07121	0.07696	0.07771	0.07480	0.06856	
3870411.46	0.04261	0.05879	0.07608	0.09106	
0.10107	0.10544	0.10241	0.09352	0.08085	
3870261.46	0.06523	0.09482	0.12146	0.14108	
0.15178	0.15155	0.13787	0.11560	0.09372	
3870111.46	0.12890	0.18302	0.22097	0.24502	
0.25285	0.23520	0.18617	0.13952	0.10577	
3869961.46	0.48010	0.57500	0.62985	0.64284	
0.62439	0.42529	0.23818	0.16054	0.11498	
3869811.46	1.00334	1.11129	1.13157	1.10919	
1.06061	0.52487	0.26421	0.16937	0.11748	
3869661.46	1.11038	1.22313	1.19947	1.19661	
1.10097	0.54097	0.26323	0.16386	0.11307	
3869511.46	1.16383	1.22365	1.22876	1.20383	
1.11284	0.53043	0.24926	0.15059	0.10261	
3869361.46	1.13873	1.18444	1.21420	1.17438	
1.06338	0.49386	0.22221	0.13077	0.08848	
3869211.46	1.08338	1.11799	1.11211	1.07007	
0.96049	0.41683	0.17627	0.10626	0.07391	
3869061.46	0.72767	0.74442	0.73215	0.69859	
0.61889	0.23707	0.12359	0.08332	0.06095	

3868911.46	|	0.26413	0.27763	0.27134	0.25439
0.21018	0.13832	0.09238	0.06779	0.05145	
3868761.46	|	0.14085	0.14491	0.16755	0.15555
0.13388	0.10337	0.07861	0.05928	0.04592	
3868611.46	|	0.11213	0.10956	0.11938	0.11146
0.09883	0.08229	0.06759	0.05489	0.04327	
3868461.46	|	0.08247	0.08652	0.08717	0.08352
0.07722	0.06789	0.05849	0.04965	0.04171	
3868311.46	|	0.06438	0.06705	0.06697	0.06533
0.06150	0.05609	0.05075	0.04482	0.03945	
3868161.46	|	0.05251	0.05399	0.05471	0.05342
0.05016	0.04655	0.04386	0.04026	0.03640	
3868011.46		0.04391	0.04513	0.04627	0.04514
0.04243	0.03939	0.03787	0.03548	0.03299	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***   ***
***                               22:26:59

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PAGE 26
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL   ***
                INCLUDING SOURCE(S):   AREA1

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*** NETWORK ID: UCART1 ; NETWORK
TYPE: GRIDCART ***

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                ** CONC OF PM_10   IN
                **
MICROGRAMS/M**3

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Y-COORD (METERS)	X-COORD	MICROGRAMS/M ³	
(METERS)			
	397411.79	397561.79	397711.79
3871011.46	0.03970	0.03750	0.03419
3870861.46	0.04586	0.04190	0.03732
3870711.46	0.05271	0.04669	0.04068
3870561.46	0.06021	0.05168	0.04408
3870411.46	0.06792	0.05652	0.04715
3870261.46	0.07523	0.06077	0.04980
3870111.46	0.08156	0.06439	0.05200
3869961.46	0.08607	0.06678	0.05331
3869811.46	0.08638	0.06636	0.05266
3869661.46	0.08262	0.06336	0.05022
3869511.46	0.07568	0.05837	0.04680
3869361.46	0.06575	0.05178	0.04225
3869211.46	0.05534	0.04414	0.03661
3869061.46	0.04595	0.03669	0.03075
3868911.46	0.03980	0.03159	0.02612
3868761.46	0.03599	0.02848	0.02326
3868611.46	0.03416	0.02689	0.02159
3868461.46	0.03382	0.02695	0.02140
3868311.46	0.03368	0.02773	0.02227
3868161.46	0.03264	0.02829	0.02345
3868011.46	0.03078	0.02802	0.02431


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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***          02/06/18
*** AERMET - VERSION 14134 ***      ***
***          22:26:59

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PAGE 27

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*** MODELOPTs:      RegDFault  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
              INCLUDING SOURCE(S):      AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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*** CONC OF PM10      IN
MICROGRAMS/M**3      **

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X-COORD (M)	Y-COORD (M)	CONC	X-
395270.74	3868626.18	0.04258	
395320.74	3868626.18	0.04571	
395370.74	3868626.18	0.04921	
395420.74	3868626.18	0.05290	
395470.74	3868626.18	0.05705	
395520.74	3868626.18	0.06133	
395570.74	3868626.18	0.06599	
395620.74	3868626.18	0.07074	
395670.74	3868626.18	0.07535	
395720.74	3868626.18	0.08047	
395770.74	3868626.18	0.08557	
395820.74	3868626.18	0.09160	
395270.74	3868676.18	0.04339	
395320.74	3868676.18	0.04687	
395370.74	3868676.18	0.05069	
395420.74	3868676.18	0.05485	
395470.74	3868676.18	0.05927	
395520.74	3868676.18	0.06428	
395570.74	3868676.18	0.06957	
395620.74	3868676.18	0.07525	
395670.74	3868676.18	0.08096	
395720.74	3868676.18	0.08692	
395770.74	3868676.18	0.09306	
395820.74	3868676.18	0.10060	
395270.74	3868726.18	0.04393	
395320.74	3868726.18	0.04780	
395370.74	3868726.18	0.05194	
395420.74	3868726.18	0.05667	
395470.74	3868726.18	0.06163	
395520.74	3868726.18	0.06723	
395570.74	3868726.18	0.07329	
395620.74	3868726.18	0.08002	

	395670.74	3868726.18	0.08713
395720.74	3868726.18	0.09455	
	395770.74	3868726.18	0.10242
395820.74	3868726.18	0.11142	
	395270.74	3868776.18	0.04424
395320.74	3868776.18	0.04845	
	395370.74	3868776.18	0.05299
395420.74	3868776.18	0.05811	
	395470.74	3868776.18	0.06385
395520.74	3868776.18	0.07009	
	395570.74	3868776.18	0.07718
395620.74	3868776.18	0.08486	
	395670.74	3868776.18	0.09361
395720.74	3868776.18	0.10299	
	395770.74	3868776.18	0.11325
395820.74	3868776.18	0.12440	
	395270.74	3868826.18	0.04435
395320.74	3868826.18	0.04883	
	395370.74	3868826.18	0.05372
395420.74	3868826.18	0.05930	
	395470.74	3868826.18	0.06574
395520.74	3868826.18	0.07278	
	395570.74	3868826.18	0.08104
395620.74	3868826.18	0.09006	
	395670.74	3868826.18	0.10053
395720.74	3868826.18	0.11225	
	395770.74	3868826.18	0.12531
395820.74	3868826.18	0.13996	
	395270.74	3868876.18	0.04427
395320.74	3868876.18	0.04896	
	395370.74	3868876.18	0.05414
395420.74	3868876.18	0.06009	
	395470.74	3868876.18	0.06720
395520.74	3868876.18	0.07510	
	395570.74	3868876.18	0.08437
395620.74	3868876.18	0.09523	
	395670.74	3868876.18	0.10765
395720.74	3868876.18	0.12248	
	395770.74	3868876.18	0.13968
395820.74	3868876.18	0.15934	
	395270.74	3868926.18	0.04401
395320.74	3868926.18	0.04885	
	395370.74	3868926.18	0.05428
395420.74	3868926.18	0.06059	
	395470.74	3868926.18	0.06822
395520.74	3868926.18	0.07689	
	395570.74	3868926.18	0.08720
395620.74	3868926.18	0.09992	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 28

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

X-COORD (M)	Y-COORD (M)	CONC	X-
395670.74	3868926.18	0.11496	
395720.74	3868926.18	0.13345	
395770.74	3868926.18	0.15671	
395820.74	3868926.18	0.18502	
395270.74	3868976.18	0.04357	
395320.74	3868976.18	0.04854	
395370.74	3868976.18	0.05415	
395420.74	3868976.18	0.06075	
395470.74	3868976.18	0.06882	
395520.74	3868976.18	0.07815	
395570.74	3868976.18	0.08940	
395620.74	3868976.18	0.10328	
395670.74	3868976.18	0.12145	
395720.74	3868976.18	0.14465	
395770.74	3868976.18	0.17635	
395820.74	3868976.18	0.22131	
395270.74	3869026.18	0.04294	
395320.74	3869026.18	0.04799	
395370.74	3869026.18	0.05374	
395420.74	3869026.18	0.06056	
395470.74	3869026.18	0.06897	
395520.74	3869026.18	0.07884	
395570.74	3869026.18	0.09092	
395620.74	3869026.18	0.10608	
395670.74	3869026.18	0.12633	
395720.74	3869026.18	0.15408	
395770.74	3869026.18	0.19592	
395820.74	3869026.18	0.27328	
395270.74	3869076.18	0.04211	
395320.74	3869076.18	0.04719	
395370.74	3869076.18	0.05302	
395420.74	3869076.18	0.05997	

	395470.74	3869076.18	0.06836
395520.74	3869076.18	0.07890	
	395570.74	3869076.18	0.09159
395620.74	3869076.18	0.10773	
	395670.74	3869076.18	0.12913
395720.74	3869076.18	0.16050	
	395770.74	3869076.18	0.20939
395820.74	3869076.18	0.31203	
	395270.74	3869126.18	0.04106
395320.74	3869126.18	0.04612	
	395370.74	3869126.18	0.05196
395420.74	3869126.18	0.05898	
	395470.74	3869126.18	0.06750
395520.74	3869126.18	0.07830	
	395570.74	3869126.18	0.09142
395620.74	3869126.18	0.10823	
	395670.74	3869126.18	0.13072
395720.74	3869126.18	0.16379	
	395770.74	3869126.18	0.21644
395820.74	3869126.18	0.32740	
	395270.74	3869176.18	0.03980
395320.74	3869176.18	0.04480	
	395370.74	3869176.18	0.05060
395420.74	3869176.18	0.05760	
	395470.74	3869176.18	0.06616
395520.74	3869176.18	0.07702	
	395570.74	3869176.18	0.09053
395620.74	3869176.18	0.10783	
	395670.74	3869176.18	0.13104
395720.74	3869176.18	0.16475	
	395770.74	3869176.18	0.21982
395820.74	3869176.18	0.33269	
	395270.74	3869226.18	0.03833
395320.74	3869226.18	0.04308	
	395370.74	3869226.18	0.04894
395420.74	3869226.18	0.05593	
	395470.74	3869226.18	0.06449
395520.74	3869226.18	0.07541	
	395570.74	3869226.18	0.08909
395620.74	3869226.18	0.10665	
	395670.74	3869226.18	0.13026
395720.74	3869226.18	0.16466	
	395770.74	3869226.18	0.22097
395820.74	3869226.18	0.33619	
	395270.74	3869276.18	0.03672
395320.74	3869276.18	0.04139	
	395370.74	3869276.18	0.04709
395420.74	3869276.18	0.05406	

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*** AERMET - VERSION 14134 *** ***
*** 22:26:59

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PAGE 29

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

			** CONC OF PM ₁₀	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
395470.74	3869276.18	0.06253		
395520.74	3869276.18	0.07313		
395570.74	3869276.18	0.08709		
395620.74	3869276.18	0.10472		
395670.74	3869276.18	0.12855		
395720.74	3869276.18	0.16368		
395770.74	3869276.18	0.22047		
395820.74	3869276.18	0.33683		
395270.74	3869326.18	0.03501		
395320.74	3869326.18	0.03960		
395370.74	3869326.18	0.04509		
395420.74	3869326.18	0.05200		
395470.74	3869326.18	0.06031		
395520.74	3869326.18	0.07073		
395570.74	3869326.18	0.08454		
395620.74	3869326.18	0.10213		
395670.74	3869326.18	0.12605		
395720.74	3869326.18	0.16192		
395770.74	3869326.18	0.21860		
395820.74	3869326.18	0.33557		
395270.74	3869376.18	0.03322		
395320.74	3869376.18	0.03770		
395370.74	3869376.18	0.04304		
395420.74	3869376.18	0.04961		
395470.74	3869376.18	0.05780		
395520.74	3869376.18	0.06795		
395570.74	3869376.18	0.08131		
395620.74	3869376.18	0.09895		
395670.74	3869376.18	0.12281		
395720.74	3869376.18	0.15813		
395770.74	3869376.18	0.21549		
395820.74	3869376.18	0.33274		

	395270.74	3869426.18	0.03136
395320.74	3869426.18	0.03569	
	395370.74	3869426.18	0.04084
395420.74	3869426.18	0.04712	
	395470.74	3869426.18	0.05504
395520.74	3869426.18	0.06486	
	395570.74	3869426.18	0.07779
395620.74	3869426.18	0.09521	
	395670.74	3869426.18	0.11882
395720.74	3869426.18	0.15372	
	395770.74	3869426.18	0.21123
395820.74	3869426.18	0.32840	
	395270.74	3869476.18	0.02951
395320.74	3869476.18	0.03358	
	395370.74	3869476.18	0.03847
395420.74	3869476.18	0.04442	
	395470.74	3869476.18	0.05207
395520.74	3869476.18	0.06149	
	395570.74	3869476.18	0.07380
395620.74	3869476.18	0.09092	
	395670.74	3869476.18	0.11409
395720.74	3869476.18	0.14860	
	395770.74	3869476.18	0.20579
395820.74	3869476.18	0.32256	
	395270.74	3869526.18	0.02765
395320.74	3869526.18	0.03141	
	395370.74	3869526.18	0.03599
395420.74	3869526.18	0.04161	
	395470.74	3869526.18	0.04888
395520.74	3869526.18	0.05787	
	395570.74	3869526.18	0.06963
395620.74	3869526.18	0.08608	
	395670.74	3869526.18	0.10861
395720.74	3869526.18	0.14207	
	395770.74	3869526.18	0.19910
395820.74	3869526.18	0.31521	
	395270.74	3869576.18	0.02579
395320.74	3869576.18	0.02928	
	395370.74	3869576.18	0.03347
395420.74	3869576.18	0.03869	
	395470.74	3869576.18	0.04552
395520.74	3869576.18	0.05400	
	395570.74	3869576.18	0.06511
395620.74	3869576.18	0.08022	
	395670.74	3869576.18	0.10238
395720.74	3869576.18	0.13497	
	395770.74	3869576.18	0.18917
395820.74	3869576.18	0.30608	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 30

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

X-COORD (M)	Y-COORD (M)	CONC	X-
395270.74	3869626.18	0.02411	
395320.74	3869626.18	0.02725	
395370.74	3869626.18	0.03102	
395420.74	3869626.18	0.03576	
395470.74	3869626.18	0.04180	
395520.74	3869626.18	0.04988	
395570.74	3869626.18	0.06025	
395620.74	3869626.18	0.07440	
395670.74	3869626.18	0.09520	
395720.74	3869626.18	0.12676	
395770.74	3869626.18	0.17960	
395820.74	3869626.18	0.29369	
395270.74	3869676.18	0.02261	
395320.74	3869676.18	0.02538	
395370.74	3869676.18	0.02872	
395420.74	3869676.18	0.03293	
395470.74	3869676.18	0.03832	
395520.74	3869676.18	0.04561	
395570.74	3869676.18	0.05508	
395620.74	3869676.18	0.06814	
395670.74	3869676.18	0.08719	
395720.74	3869676.18	0.11737	
395770.74	3869676.18	0.16836	
395820.74	3869676.18	0.27806	
395270.74	3869726.18	0.02127	
395320.74	3869726.18	0.02367	
395370.74	3869726.18	0.02661	
395420.74	3869726.18	0.03029	
395470.74	3869726.18	0.03499	
395520.74	3869726.18	0.04130	
395570.74	3869726.18	0.04975	
395620.74	3869726.18	0.06149	

	395670.74	3869726.18	0.07871
395720.74	3869726.18	0.10653	
	395770.74	3869726.18	0.15503
395820.74	3869726.18	0.26073	
	395270.74	3869776.18	0.01990
395320.74	3869776.18	0.02198	
	395370.74	3869776.18	0.02467
395420.74	3869776.18	0.02787	
	395470.74	3869776.18	0.03191
395520.74	3869776.18	0.03717	
	395570.74	3869776.18	0.04454
395620.74	3869776.18	0.05466	
	395670.74	3869776.18	0.06976
395720.74	3869776.18	0.09428	
	395770.74	3869776.18	0.13916
395820.74	3869776.18	0.24002	
	395270.74	3869826.18	0.01861
395320.74	3869826.18	0.02048	
	395370.74	3869826.18	0.02283
395420.74	3869826.18	0.02563	
	395470.74	3869826.18	0.02909
395520.74	3869826.18	0.03355	
	395570.74	3869826.18	0.03962
395620.74	3869826.18	0.04811	
	395670.74	3869826.18	0.06061
395720.74	3869826.18	0.08100	
	395770.74	3869826.18	0.11937
395820.74	3869826.18	0.21277	
	395270.74	3869876.18	0.01741
395320.74	3869876.18	0.01907	
	395370.74	3869876.18	0.02105
395420.74	3869876.18	0.02348	
	395470.74	3869876.18	0.02651
395520.74	3869876.18	0.03027	
	395570.74	3869876.18	0.03518
395620.74	3869876.18	0.04209	
	395670.74	3869876.18	0.05205
395720.74	3869876.18	0.06777	
	395770.74	3869876.18	0.09715
395820.74	3869876.18	0.17324	
	395270.74	3869926.18	0.01608
395320.74	3869926.18	0.01776	
	395370.74	3869926.18	0.01948
395420.74	3869926.18	0.02155	
	395470.74	3869926.18	0.02419
395520.74	3869926.18	0.02735	
	395570.74	3869926.18	0.03140
395620.74	3869926.18	0.03679	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 31

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3

** CONC OF PM_10 IN

**

X-COORD (M)	Y-COORD (M)	CONC	X-
395670.74	3869926.18	0.04454	
395720.74	3869926.18	0.05604	
395770.74	3869926.18	0.07541	
395820.74	3869926.18	0.11957	
395270.74	3869976.18	0.01499	
395320.74	3869976.18	0.01629	
395370.74	3869976.18	0.01809	
395420.74	3869976.18	0.01988	
395470.74	3869976.18	0.02216	
395520.74	3869976.18	0.02485	
395570.74	3869976.18	0.02822	
395620.74	3869976.18	0.03260	
395670.74	3869976.18	0.03845	
395720.74	3869976.18	0.04688	
395770.74	3869976.18	0.05954	
395820.74	3869976.18	0.08113	
395870.74	3869976.18	0.13111	
395920.74	3869976.18	0.22795	
395970.74	3869976.18	0.30651	
396020.74	3869976.18	0.36009	
396070.74	3869976.18	0.40036	
396120.74	3869976.18	0.43672	
396170.74	3869976.18	0.46375	
396220.74	3869976.18	0.48508	
396270.74	3869976.18	0.50636	
396320.74	3869976.18	0.52130	
396370.74	3869976.18	0.53356	
396420.74	3869976.18	0.54353	
396470.74	3869976.18	0.55061	
396520.74	3869976.18	0.55059	
396570.74	3869976.18	0.55313	
396620.74	3869976.18	0.54819	

	396668.32	3869988.26	0.48509
396718.32	3869988.26	0.47214	
	396768.32	3869988.26	0.44260
396818.32	3869988.26	0.37309	
	396868.32	3869993.09	0.30453
396918.32	3869993.09	0.25909	
	396968.32	3869993.09	0.22416
397018.32	3869993.09	0.19644	
	397068.32	3869993.09	0.17353
397118.32	3869993.09	0.15446	
	397168.32	3869993.09	0.13824
397218.32	3869993.09	0.12403	
	397268.32	3869993.09	0.11201
395270.74	3870026.18	0.01407	
	395320.74	3870026.18	0.01518
395370.74	3870026.18	0.01653	
	395420.74	3870026.18	0.01846
395470.74	3870026.18	0.02036	
	395520.74	3870026.18	0.02277
395570.74	3870026.18	0.02565	
	395620.74	3870026.18	0.02928
395670.74	3870026.18	0.03399	
	395720.74	3870026.18	0.04030
395770.74	3870026.18	0.04950	
	395820.74	3870026.18	0.06342
395870.74	3870026.18	0.08607	
	395920.74	3870026.18	0.12290
395970.74	3870026.18	0.16797	
	396020.74	3870026.18	0.20739
396070.74	3870026.18	0.24016	
	396120.74	3870026.18	0.26742
396170.74	3870026.18	0.29278	
	396220.74	3870026.18	0.31212
396270.74	3870026.18	0.32857	
	396320.74	3870026.18	0.34396
396370.74	3870026.18	0.35567	
	396420.74	3870026.18	0.36533
396470.74	3870026.18	0.37309	
	396520.74	3870026.18	0.37872
396570.74	3870026.18	0.38007	
	396620.74	3870026.18	0.38065
396670.74	3870026.18	0.37627	
	396720.74	3870026.18	0.36950
396770.74	3870026.18	0.35107	
	396820.74	3870026.18	0.31765
396870.74	3870026.18	0.27704	
	396920.74	3870026.18	0.24138
396970.74	3870026.18	0.21194	

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*** AERMET - VERSION 14134 ***   ***
***   22:26:59

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PAGE 32

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF PM_10	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
397020.74	3870026.18	0.18795		
397070.74	3870026.18	0.16702		
397120.74	3870026.18	0.14940		
397170.74	3870026.18	0.13433		
397220.74	3870026.18	0.12103		
397270.74	3870026.18	0.10964		
395270.74	3870076.18	0.01327		
395320.74	3870076.18	0.01428		
395370.74	3870076.18	0.01544		
395420.74	3870076.18	0.01684		
395470.74	3870076.18	0.01894		
395520.74	3870076.18	0.02094		
395570.74	3870076.18	0.02338		
395620.74	3870076.18	0.02656		
395670.74	3870076.18	0.03046		
395720.74	3870076.18	0.03559		
395770.74	3870076.18	0.04253		
395820.74	3870076.18	0.05249		
395870.74	3870076.18	0.06643		
395920.74	3870076.18	0.08620		
395970.74	3870076.18	0.11147		
396020.74	3870076.18	0.13967		
396070.74	3870076.18	0.16497		
396120.74	3870076.18	0.18747		
396170.74	3870076.18	0.20777		
396220.74	3870076.18	0.22600		
396270.74	3870076.18	0.24094		
396320.74	3870076.18	0.25387		
396370.74	3870076.18	0.26588		
396420.74	3870076.18	0.27522		
396470.74	3870076.18	0.28286		
396520.74	3870076.18	0.28876		

	396570.74	3870076.18	0.29280
396620.74	3870076.18	0.29466	
	396670.74	3870076.18	0.29374
396720.74	3870076.18	0.28800	
	396770.74	3870076.18	0.27882
396820.74	3870076.18	0.26289	
	396870.74	3870076.18	0.24110
396920.74	3870076.18	0.21755	
	396970.74	3870076.18	0.19536
397020.74	3870076.18	0.17552	
	397070.74	3870076.18	0.15793
397120.74	3870076.18	0.14241	
	397170.74	3870076.18	0.12897
397220.74	3870076.18	0.11698	
	397270.74	3870076.18	0.10649
395270.74	3870126.18	0.01252	
	395320.74	3870126.18	0.01354
395370.74	3870126.18	0.01458	
	395420.74	3870126.18	0.01577
395470.74	3870126.18	0.01723	
	395520.74	3870126.18	0.01942
395570.74	3870126.18	0.02153	
	395620.74	3870126.18	0.02414
395670.74	3870126.18	0.02752	
	395720.74	3870126.18	0.03194
395770.74	3870126.18	0.03750	
	395820.74	3870126.18	0.04480
395870.74	3870126.18	0.05448	
	395920.74	3870126.18	0.06741
395970.74	3870126.18	0.08358	
	396020.74	3870126.18	0.10239
396070.74	3870126.18	0.12199	
	396120.74	3870126.18	0.14006
396170.74	3870126.18	0.15663	
	396220.74	3870126.18	0.17198
396270.74	3870126.18	0.18613	
	396320.74	3870126.18	0.19794
396370.74	3870126.18	0.20829	
	396420.74	3870126.18	0.21783
396470.74	3870126.18	0.22528	
	396520.74	3870126.18	0.23121
396570.74	3870126.18	0.23551	
	396620.74	3870126.18	0.23801
396670.74	3870126.18	0.23847	
	396720.74	3870126.18	0.23644
396770.74	3870126.18	0.23140	
	396820.74	3870126.18	0.22243
396870.74	3870126.18	0.20926	

PAGE 33
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN
 RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

X-COORD (M)	Y-COORD (M)	CONC	X-
396920.74	3870126.18	0.19401	
396970.74	3870126.18	0.17801	
397020.74	3870126.18	0.16258	
397070.74	3870126.18	0.14817	
397120.74	3870126.18	0.13496	
397170.74	3870126.18	0.12321	
397220.74	3870126.18	0.11257	
397270.74	3870126.18	0.10302	
395270.74	3870176.18	0.01194	
395320.74	3870176.18	0.01275	
395370.74	3870176.18	0.01377	
395420.74	3870176.18	0.01481	
395470.74	3870176.18	0.01602	
395520.74	3870176.18	0.01760	
395570.74	3870176.18	0.01993	
395620.74	3870176.18	0.02226	
395670.74	3870176.18	0.02516	
395720.74	3870176.18	0.02890	
395770.74	3870176.18	0.03352	
395820.74	3870176.18	0.03924	
395870.74	3870176.18	0.04633	
395920.74	3870176.18	0.05564	
395970.74	3870176.18	0.06691	
396020.74	3870176.18	0.07999	
396070.74	3870176.18	0.09493	
396120.74	3870176.18	0.10926	
396170.74	3870176.18	0.12300	
396220.74	3870176.18	0.13582	
396270.74	3870176.18	0.14799	
396320.74	3870176.18	0.15916	
396370.74	3870176.18	0.16867	
396420.74	3870176.18	0.17700	

	396470.74	3870176.18	0.18434
396520.74	3870176.18	0.19041	
	396570.74	3870176.18	0.19481
396620.74	3870176.18	0.19775	
	396670.74	3870176.18	0.19904
396720.74	3870176.18	0.19852	
	396770.74	3870176.18	0.19605
396820.74	3870176.18	0.19100	
	396870.74	3870176.18	0.18323
396920.74	3870176.18	0.17291	
	396970.74	3870176.18	0.16151
397020.74	3870176.18	0.14979	
	397070.74	3870176.18	0.13828
397120.74	3870176.18	0.12724	
	397170.74	3870176.18	0.11716
397220.74	3870176.18	0.10789	
	397270.74	3870176.18	0.09931
395270.74	3870226.18	0.01138	
	395320.74	3870226.18	0.01208
395370.74	3870226.18	0.01285	
	395420.74	3870226.18	0.01388
395470.74	3870226.18	0.01497	
	395520.74	3870226.18	0.01630
395570.74	3870226.18	0.01813	
	395620.74	3870226.18	0.02064
395670.74	3870226.18	0.02318	
	395720.74	3870226.18	0.02628
395770.74	3870226.18	0.03028	
	395820.74	3870226.18	0.03487
395870.74	3870226.18	0.04032	
	395920.74	3870226.18	0.04742
395970.74	3870226.18	0.05579	
	396020.74	3870226.18	0.06547
396070.74	3870226.18	0.07622	
	396120.74	3870226.18	0.08812
396170.74	3870226.18	0.09944	
	396220.74	3870226.18	0.11035
396270.74	3870226.18	0.12059	
	396320.74	3870226.18	0.13034
396370.74	3870226.18	0.13944	
	396420.74	3870226.18	0.14711
396470.74	3870226.18	0.15376	
	396520.74	3870226.18	0.15937
396570.74	3870226.18	0.16416	
	396620.74	3870226.18	0.16735
396670.74	3870226.18	0.16918	
	396720.74	3870226.18	0.16967
396770.74	3870226.18	0.16873	

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 *** AERMET - VERSION 14134 *** ***
 *** 22:26:59

PAGE 34

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

X-COORD (M)	Y-COORD (M)	CONC	X-
396820.74	3870226.18	0.16590	
396870.74	3870226.18	0.16107	
396920.74	3870226.18	0.15453	
396970.74	3870226.18	0.14629	
397020.74	3870226.18	0.13756	
397070.74	3870226.18	0.12856	
397120.74	3870226.18	0.11944	
397170.74	3870226.18	0.11094	
397220.74	3870226.18	0.10298	
397270.74	3870226.18	0.09540	
395270.74	3870276.18	0.01070	
395320.74	3870276.18	0.01139	
395370.74	3870276.18	0.01209	
395420.74	3870276.18	0.01298	
395470.74	3870276.18	0.01406	
395520.74	3870276.18	0.01530	
395570.74	3870276.18	0.01688	
395620.74	3870276.18	0.01922	
395670.74	3870276.18	0.02146	
395720.74	3870276.18	0.02417	
395770.74	3870276.18	0.02756	
395820.74	3870276.18	0.03133	
395870.74	3870276.18	0.03570	
395920.74	3870276.18	0.04105	
395970.74	3870276.18	0.04782	
396020.74	3870276.18	0.05529	
396070.74	3870276.18	0.06360	
396120.74	3870276.18	0.07295	
396170.74	3870276.18	0.08233	
396220.74	3870276.18	0.09155	
396270.74	3870276.18	0.10042	
396320.74	3870276.18	0.10877	

	396370.74	3870276.18	0.11668
396420.74	3870276.18	0.12407	
	396470.74	3870276.18	0.13024
396520.74	3870276.18	0.13553	
	396570.74	3870276.18	0.13988
396620.74	3870276.18	0.14337	
	396670.74	3870276.18	0.14557
396720.74	3870276.18	0.14662	
	396770.74	3870276.18	0.14671
396820.74	3870276.18	0.14543	
	396870.74	3870276.18	0.14255
396920.74	3870276.18	0.13824	
	396970.74	3870276.18	0.13277
397020.74	3870276.18	0.12616	
	397070.74	3870276.18	0.11916
397120.74	3870276.18	0.11200	
	397170.74	3870276.18	0.10484
397220.74	3870276.18	0.09794	
	397270.74	3870276.18	0.09131
395270.74	3870326.18	0.01010	
	395320.74	3870326.18	0.01064
395370.74	3870326.18	0.01139	
	395420.74	3870326.18	0.01218
395470.74	3870326.18	0.01326	
	395520.74	3870326.18	0.01442
395570.74	3870326.18	0.01577	
	395620.74	3870326.18	0.01749
395670.74	3870326.18	0.01995	
	395720.74	3870326.18	0.02234
395770.74	3870326.18	0.02526	
	395820.74	3870326.18	0.02841
395870.74	3870326.18	0.03201	
	395920.74	3870326.18	0.03635
395970.74	3870326.18	0.04167	
	396020.74	3870326.18	0.04779
396070.74	3870326.18	0.05439	
	396120.74	3870326.18	0.06156
396170.74	3870326.18	0.06957	
	396220.74	3870326.18	0.07731
396270.74	3870326.18	0.08493	
	396320.74	3870326.18	0.09224
396370.74	3870326.18	0.09909	
	396420.74	3870326.18	0.10562
396470.74	3870326.18	0.11158	
	396520.74	3870326.18	0.11655
396570.74	3870326.18	0.12072	
	396620.74	3870326.18	0.12402
396670.74	3870326.18	0.12646	


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*** AERMET - VERSION 14134 ***   ***
***   22:26:59

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PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

X-COORD (M)	Y-COORD (M)	CONC	X-
396720.74	3870326.18	0.12809	
396770.74	3870326.18	0.12883	
396820.74	3870326.18	0.12840	
396870.74	3870326.18	0.12687	
396920.74	3870326.18	0.12409	
396970.74	3870326.18	0.12035	
397020.74	3870326.18	0.11574	
397070.74	3870326.18	0.11040	
397120.74	3870326.18	0.10457	
397170.74	3870326.18	0.09872	
397220.74	3870326.18	0.09290	
397270.74	3870326.18	0.08713	
395270.74	3870376.18	0.00949	
395320.74	3870376.18	0.01006	
395370.74	3870376.18	0.01074	
395420.74	3870376.18	0.01153	
395470.74	3870376.18	0.01243	
395520.74	3870376.18	0.01360	
395570.74	3870376.18	0.01482	
395620.74	3870376.18	0.01628	
395670.74	3870376.18	0.01822	
395720.74	3870376.18	0.02076	
395770.74	3870376.18	0.02329	
395820.74	3870376.18	0.02596	
395870.74	3870376.18	0.02899	
395920.74	3870376.18	0.03261	
395970.74	3870376.18	0.03692	
396020.74	3870376.18	0.04205	
396070.74	3870376.18	0.04744	
396120.74	3870376.18	0.05326	
396170.74	3870376.18	0.05959	
396220.74	3870376.18	0.06628	

	396270.74	3870376.18	0.07279
396320.74	3870376.18	0.07915	
	396370.74	3870376.18	0.08522
396420.74	3870376.18	0.09089	
	396470.74	3870376.18	0.09625
396520.74	3870376.18	0.10115	
	396570.74	3870376.18	0.10509
396620.74	3870376.18	0.10833	
	396670.74	3870376.18	0.11089
396720.74	3870376.18	0.11280	
	396770.74	3870376.18	0.11398
396820.74	3870376.18	0.11419	
	396870.74	3870376.18	0.11336
396920.74	3870376.18	0.11162	
	396970.74	3870376.18	0.10913
397020.74	3870376.18	0.10599	
	397070.74	3870376.18	0.10207
397120.74	3870376.18	0.09763	
	397170.74	3870376.18	0.09278
397220.74	3870376.18	0.08789	
	397270.74	3870376.18	0.08297
395270.74	3870426.18	0.00896	
	395320.74	3870426.18	0.00954
395370.74	3870426.18	0.01013	
	395420.74	3870426.18	0.01094
395470.74	3870426.18	0.01177	
	395520.74	3870426.18	0.01280
395570.74	3870426.18	0.01396	
	395620.74	3870426.18	0.01531
395670.74	3870426.18	0.01705	
	395720.74	3870426.18	0.01939
395770.74	3870426.18	0.02150	
	395820.74	3870426.18	0.02389
395870.74	3870426.18	0.02650	
	395920.74	3870426.18	0.02958
395970.74	3870426.18	0.03321	
	396020.74	3870426.18	0.03740
396070.74	3870426.18	0.04201	
	396120.74	3870426.18	0.04680
396170.74	3870426.18	0.05191	
	396220.74	3870426.18	0.05738
396270.74	3870426.18	0.06305	
	396320.74	3870426.18	0.06863
396370.74	3870426.18	0.07399	
	396420.74	3870426.18	0.07910
396470.74	3870426.18	0.08383	
	396520.74	3870426.18	0.08820
396570.74	3870426.18	0.09209	

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***      ***
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                22:26:59

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PAGE 36
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF PM_10	IN
X-COORD (M)	Y-COORD (M)	CONC		X-
396620.74	3870426.18	0.09531		
396670.74	3870426.18	0.09790		
396720.74	3870426.18	0.09999		
396770.74	3870426.18	0.10145		
396820.74	3870426.18	0.10210		
396870.74	3870426.18	0.10187		
396920.74	3870426.18	0.10087		
396970.74	3870426.18	0.09923		
397020.74	3870426.18	0.09701		
397070.74	3870426.18	0.09426		
397120.74	3870426.18	0.09088		
397170.74	3870426.18	0.08707		
397220.74	3870426.18	0.08293		
397270.74	3870426.18	0.07885		
395270.74	3870476.18	0.00851		
395320.74	3870476.18	0.00899		
395370.74	3870476.18	0.00964		
395420.74	3870476.18	0.01034		
395470.74	3870476.18	0.01116		
395520.74	3870476.18	0.01203		
395570.74	3870476.18	0.01320		
395620.74	3870476.18	0.01448		
395670.74	3870476.18	0.01598		
395720.74	3870476.18	0.01778		
395770.74	3870476.18	0.02006		
395820.74	3870476.18	0.02206		
395870.74	3870476.18	0.02433		
395920.74	3870476.18	0.02706		
395970.74	3870476.18	0.03017		
396020.74	3870476.18	0.03367		
396070.74	3870476.18	0.03757		
396120.74	3870476.18	0.04165		

	396170.74	3870476.18	0.04590
396220.74	3870476.18	0.05039	
	396270.74	3870476.18	0.05505
396320.74	3870476.18	0.05999	
	396370.74	3870476.18	0.06481
396420.74	3870476.18	0.06937	
	396470.74	3870476.18	0.07366
396520.74	3870476.18	0.07757	
	396570.74	3870476.18	0.08103
396620.74	3870476.18	0.08430	
	396670.74	3870476.18	0.08696
396720.74	3870476.18	0.08913	
	396770.74	3870476.18	0.09077
396820.74	3870476.18	0.09172	
	396870.74	3870476.18	0.09192
396920.74	3870476.18	0.09145	
	396970.74	3870476.18	0.09044
397020.74	3870476.18	0.08894	
	397070.74	3870476.18	0.08694
397120.74	3870476.18	0.08451	
	397170.74	3870476.18	0.08157
397220.74	3870476.18	0.07829	
	397270.74	3870476.18	0.07480
395270.74	3870526.18	0.00811	
	395320.74	3870526.18	0.00857
395370.74	3870526.18	0.00920	
	395420.74	3870526.18	0.00980
395470.74	3870526.18	0.01061	
	395520.74	3870526.18	0.01144
395570.74	3870526.18	0.01249	
	395620.74	3870526.18	0.01377
395670.74	3870526.18	0.01515	
	395720.74	3870526.18	0.01672
395770.74	3870526.18	0.01882	
	395820.74	3870526.18	0.02058
395870.74	3870526.18	0.02253	
	395920.74	3870526.18	0.02493
395970.74	3870526.18	0.02761	
	396020.74	3870526.18	0.03063
396070.74	3870526.18	0.03387	
	396120.74	3870526.18	0.03740
396170.74	3870526.18	0.04103	
	396220.74	3870526.18	0.04480
396270.74	3870526.18	0.04876	
	396320.74	3870526.18	0.05286
396370.74	3870526.18	0.05699	
	396420.74	3870526.18	0.06128
396470.74	3870526.18	0.06514	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 37

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

 *** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF PM_10 IN
**

MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-
396520.74	3870526.18	0.06871	
396570.74	3870526.18	0.07194	
396620.74	3870526.18	0.07482	
396670.74	3870526.18	0.07765	
396720.74	3870526.18	0.07985	
396770.74	3870526.18	0.08160	
396820.74	3870526.18	0.08276	
396870.74	3870526.18	0.08326	
396920.74	3870526.18	0.08318	
396970.74	3870526.18	0.08262	
397020.74	3870526.18	0.08166	
397070.74	3870526.18	0.08029	
397120.74	3870526.18	0.07849	
397170.74	3870526.18	0.07631	
397220.74	3870526.18	0.07371	
397270.74	3870526.18	0.07083	
395270.74	3870576.18	0.00776	
395320.74	3870576.18	0.00821	
395370.74	3870576.18	0.00879	
395420.74	3870576.18	0.00936	
395470.74	3870576.18	0.01013	
395520.74	3870576.18	0.01094	
395570.74	3870576.18	0.01192	
395620.74	3870576.18	0.01316	
395670.74	3870576.18	0.01444	
395720.74	3870576.18	0.01579	
395770.74	3870576.18	0.01772	
395820.74	3870576.18	0.01928	
395870.74	3870576.18	0.02100	
395920.74	3870576.18	0.02304	
395970.74	3870576.18	0.02544	
396020.74	3870576.18	0.02806	

	396070.74	3870576.18	0.03088
396120.74	3870576.18	0.03381	
	396170.74	3870576.18	0.03687
396220.74	3870576.18	0.04010	
	396270.74	3870576.18	0.04360
396320.74	3870576.18	0.04712	
	396370.74	3870576.18	0.05071
396420.74	3870576.18	0.05432	
	396470.74	3870576.18	0.05778
396520.74	3870576.18	0.06118	
	396570.74	3870576.18	0.06418
396620.74	3870576.18	0.06692	
	396670.74	3870576.18	0.06941
396720.74	3870576.18	0.07167	
	396770.74	3870576.18	0.07356
396820.74	3870576.18	0.07496	
	396870.74	3870576.18	0.07569
396920.74	3870576.18	0.07589	
	396970.74	3870576.18	0.07566
397020.74	3870576.18	0.07510	
	397070.74	3870576.18	0.07420
397120.74	3870576.18	0.07293	
	397170.74	3870576.18	0.07130
397220.74	3870576.18	0.06929	
	397270.74	3870576.18	0.06698
395270.74	3870626.18	0.00745	
	395320.74	3870626.18	0.00788
395370.74	3870626.18	0.00841	
	395420.74	3870626.18	0.00899
395470.74	3870626.18	0.00964	
	395520.74	3870626.18	0.01052
395570.74	3870626.18	0.01144	
	395620.74	3870626.18	0.01259
395670.74	3870626.18	0.01380	
	395720.74	3870626.18	0.01502
395770.74	3870626.18	0.01622	
	395820.74	3870626.18	0.01757
395870.74	3870626.18	0.01966	
	395920.74	3870626.18	0.02142
395970.74	3870626.18	0.02354	
	396020.74	3870626.18	0.02586
396070.74	3870626.18	0.02833	
	396120.74	3870626.18	0.03090
396170.74	3870626.18	0.03354	
	396220.74	3870626.18	0.03627
396270.74	3870626.18	0.03915	
	396320.74	3870626.18	0.04221
396370.74	3870626.18	0.04539	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 38

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

X-COORD (M)	Y-COORD (M)	CONC	X-
396420.74	3870626.18	0.04857	
396470.74	3870626.18	0.05162	
396520.74	3870626.18	0.05455	
396570.74	3870626.18	0.05731	
396620.74	3870626.18	0.06004	
396670.74	3870626.18	0.06245	
396720.74	3870626.18	0.06470	
396770.74	3870626.18	0.06653	
396820.74	3870626.18	0.06793	
396870.74	3870626.18	0.06895	
396920.74	3870626.18	0.06944	
396970.74	3870626.18	0.06947	
397020.74	3870626.18	0.06919	
397070.74	3870626.18	0.06864	
397120.74	3870626.18	0.06780	
397170.74	3870626.18	0.06661	
397220.74	3870626.18	0.06508	
397270.74	3870626.18	0.06324	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   02/06/18
*** AERMET - VERSION 14134 ***   ***
***   22:26:59

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PAGE 39

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):   AREA1 ,

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*** NETWORK ID: UCART1 ; NETWORK

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TYPE: GRIDCART ***

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** CONC OF PM_10 IN
**
MICROGRAMS/M**3

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Y-COORD (METERS)	X-COORD	CONC	AREA1
395011.79	394711.79	19.37552 (10011108)	26.65394 (10011108)
	395161.79	34.77481 (10011108)	30.42760 (10011108)
		38.05738 (10011108)	21.81196 (10011108)
		38.05738 (10011108)	37.39345 (10011108)
		19.05661 (12120508)	15.98811 (10011108)
		36.58199 (10011108)	41.98429 (10011108)
		15.34344 (12120508)	17.27615 (12120508)
		31.15466 (10011108)	42.02054 (10011108)
		17.39992 (12120508)	23.18733 (12120508)
		36.62291 (12120508)	37.28283 (10011108)
		47.96775 (12120508)	50.94566 (12120508)
		56.20580 (12120508)	55.94477 (12120508)
		47.11288 (12120508)	51.74476 (12120508)
		62.59055 (12120508)	69.38141 (12120508)
		40.01399 (12120508)	48.40636 (12120508)
		63.09165 (12120508)	70.64781 (12120508)
		26.62124 (12120508)	36.47365 (12120508)
		58.26199 (12120508)	72.12606 (12120508)
		12.68692 (13121709)	19.55923 (12120508)
		44.73835 (12120508)	61.66094 (12120508)
		11.89907 (13121709)	12.25118 (13121709)
		27.49146 (13121708)	50.62357 (13121708)
		11.34218 (12111409)	13.11715 (13121708)
		60.69894 (13121708)	91.63297 (13121708)
		20.11488 (13121708)	37.38080 (13121708)
		94.76565 (13121708)	125.16219 (13121708)
		44.67737 (13121708)	66.29600 (13121708)
		121.28087 (13121708)	148.21727 (13121708)

3868911.5 |	69.99102 (13121708)	90.59262 (13121708)	111.65547
(13121708)	136.88494 (13121708)	159.27047 (13121708)	
3868761.5 |	89.43387 (13121708)	106.30836 (13121708)	124.44271
(13121708)	140.96548 (13121708)	151.13505 (13121708)	
3868611.5 |	100.58240 (13121708)	114.06271 (13121708)	122.40031
(13121708)	124.41808 (13121708)	118.44657 (13121708)	
3868461.5 |	101.40353 (13121708)	105.89094 (13121708)	101.99610
(13121708)	92.81914 (13121708)	113.95991 (12121908)	
3868311.5 |	88.15773 (13121708)	82.65283 (13121708)	73.64634
(13121708)	86.83011 (12121908)	134.61713 (12121908)	
3868161.5 |	65.33892 (13121708)	53.57382 (13121708)	65.64898
(12121908)	107.22611 (12121908)	145.74337 (12121908)	
3868011.5	39.84967 (13121708)	50.90446 (13021308)	84.76959
(12121908)	121.89450 (12121908)	147.20635 (12121908)	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 40

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

Y-COORD (METERS)	X-COORD
395461.79	395611.79
395761.79	396061.79
3871011.5 (13011508)	41.42815 (13011508) 56.62988 (13011508) 58.43275
3870861.5 (13011508)	59.57193 (13011508) 58.92411 (13020508) 63.64070
3870711.5 (13011508)	36.29553 (13011508) 57.78465 (13011508) 69.62089
3870561.5 (13011508)	65.25091 (13011508) 73.82999 (13020508) 75.80721
3870411.5 (13011508)	40.13515 (10011108) 58.70851 (13011508) 85.56520
3870261.5 (13011508)	75.69856 (13011508) 95.97451 (13020508) 90.29091
3870111.5 (13011508)	47.23426 (10011108) 56.06640 (13011508) 88.10073
3869961.5 (12120508)	83.21560 (13011508) 116.91184 (13020508) 117.44167
3869811.5 (12120508)	50.17301 (10011108) 53.00632 (10011108) 118.70428
3869661.5 (13121708)	92.34769 (13011508) 143.20671 (13020508) 136.91807
3869511.5 (13121708)	49.01354 (12120508) 63.39051 (10011108) 193.14069
3869361.5 (13121708)	103.93717 (13011508) 173.92129 (13020508) 227.61707
3869211.5 (13121708)	75.40332 (12120508) 78.84937 (12120508) 244.36633
3869061.5 (13121708)	121.14510 (13011508) 211.81037 (13020508) 250.47861
277.27886 (12121908)	85.54083 (12120508) 98.37608 (12120508) 277.27886 (12121908)
	139.67632 (13020508) 238.27445 (13020508) 277.27886 (12121908)
	84.13479 (12120508) 98.68039 (12120508) 277.27886 (12121908)
	130.27364 (13020508) 210.09011 (13020508) 277.27886 (12121908)
	77.15836 (12120508) 95.16252 (12120508) 277.27886 (12121908)
	158.16899 (13121708) 179.31597 (13020508) 277.27886 (12121908)
	86.29496 (13121708) 134.77409 (13121708) 277.27886 (12121908)
	208.19896 (13121708) 193.32645 (13121708) 277.27886 (12121908)
	130.02363 (13121708) 175.59993 (13121708) 277.27886 (12121908)
	233.58966 (13121708) 199.46642 (13121708) 277.27886 (12121908)
	159.91421 (13121708) 199.58695 (13121708) 277.27886 (12121908)
	241.88567 (13121708) 223.72531 (12121908) 277.27886 (12121908)
	177.04608 (13121708) 210.98933 (13121708) 277.27886 (12121908)
	277.27886 (12121908) 249.57698 (12121908) 277.27886 (12121908)

3868911.5 |	181.19673 (13121708)	199.31557 (13121708)	260.09415
(12121908)	279.25442 (12121908)	246.85715 (12121908)	
3868761.5 |	152.72798 (13121708)	196.28367 (12121908)	246.46482
(12121908)	243.55689 (12121908)	149.71341 (13122708)	
3868611.5 |	149.40306 (12121908)	206.24796 (12121908)	212.01013
(12121908)	200.34625 (13122708)	203.48733 (13122708)	
3868461.5 |	167.61165 (12121908)	193.98435 (12121908)	186.78040
(12121908)	179.24609 (13122708)	168.68665 (13122708)	
3868311.5 |	171.43719 (12121908)	175.29170 (12121908)	169.16015
(13122708)	164.28444 (13122708)	145.58159 (13122708)	
3868161.5 |	164.30272 (12121908)	156.42291 (12121908)	155.70982
(13122708)	147.25777 (13122708)	127.20542 (13122708)	
3868011.5	150.28174 (12121908)	143.62780 (13122708)	144.05380
(13122708)	132.65252 (13122708)	107.98601 (13122708)	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 41

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

** CONC OF PM₁₀ IN
**

MICROGRAMS/M³

Y-COORD (METERS)	X-COORD
396511.79	396211.79 396361.79 396811.79

3871011.5 (13020508)	105.04046 (13020508) 129.77515 (13020508) 134.73623
3870861.5 (13020508)	133.03789 (13020508) 113.67785 (13020508)
3870711.5 (13020508)	124.09786 (13020508) 140.69021 (13020508) 144.84762
3870561.5 (13020508)	141.86646 (13020508) 118.87558 (13020508)
3870411.5 (13020508)	140.57057 (13020508) 153.70509 (13020508) 156.26803
3869961.5 (13020108)	153.13038 (13020508) 124.20427 (13020508)
3869811.5 (13020108)	158.89782 (13020508) 168.69533 (13020508) 170.53598
3869661.5 (13020108)	167.01127 (13020508) 143.77933 (13120208)
3869511.5 (13011408)	179.88164 (13020508) 186.65172 (13020508) 187.60202
3869361.5 (12120708)	184.23347 (13020508) 167.60898 (13120208)
3869211.5 (12122808)	204.20435 (13020508) 208.62176 (13020508) 209.09777
3869061.5 (12122808)	206.09974 (13020508) 201.94200 (13020108)
	3870111.5 (13020508) 233.70309 (13020508) 235.90736 (13020508) 236.34096
	3869961.5 (13020108) 233.61099 (13020508) 236.40634 (13020108)
	3869811.5 (13020108) 248.97805 (13020508) 248.78278 (13020508) 243.56127
	3869661.5 (13020108) 246.56302 (13020108) 239.94258 (13020108)
	3869511.5 (13011408) 216.11977 (13020508) 206.69569 (13020508) 214.24848
	3869361.5 (12120708) 219.18324 (13020108) 216.55219 (13121608)
	3869211.5 (12122808) 180.94190 (13020508) 178.72392 (13020108) 184.23057
	3869061.5 (12122808) 187.82108 (13121608) 213.27496 (13121608)
	3869061.5 (12122808) 158.22735 (13121708) 144.50542 (13020108) 174.94266
	3869061.5 (12122808) 201.30847 (13011408) 211.02211 (13011408)
	3869061.5 (12122808) 171.70618 (12121908) 162.77751 (12121908) 175.69345
	3869061.5 (12122808) 202.35149 (13011408) 222.00027 (13011408)
	3869061.5 (12122808) 207.41625 (12121908) 184.43582 (13122708) 191.59974
	3869061.5 (12122808) 210.90909 (12120708) 223.34583 (12120708)
	3869061.5 (12122808) 225.28535 (12121908) 202.98620 (13122708) 205.21500
	3869061.5 (12122808) 230.86035 (13010308) 246.39443 (12120708)

3868911.5 |	225.92794 (13122708)	217.56487 (13020408)	222.27498
(13020408)	231.99448 (13010308)	255.53844 (13010308)	
3868761.5 |	136.07640 (13122708)	214.03859 (13020408)	220.21432
(13020408)	217.15640 (13020408)	226.20647 (13010308)	
3868611.5 |	154.12981 (13122708)	202.87052 (13020408)	210.54760
(13020408)	205.44608 (13020408)	201.47386 (13020408)	
3868461.5 |	146.27543 (13122708)	164.64757 (13020408)	188.39190
(13020408)	193.13644 (13020408)	191.18933 (13020408)	
3868311.5 |	116.85304 (13122708)	126.12304 (13020408)	165.59084
(13020408)	178.35350 (13020408)	179.42849 (13020408)	
3868161.5 |	90.44320 (13122708)	95.04501 (13020408)	143.88795
(13020408)	163.59242 (13020408)	167.89197 (13020408)	
3868011.5 |	72.97841 (13021408)	76.89232 (13122508)	120.62024
(13020408)	150.58279 (13020408)	158.37409 (13020408)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 42

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

Y-COORD (METERS) (METERS)			X-COORD
397261.79	396961.79	397111.79	397561.79

3871011.5 (13120208)	97.80908 (13120208)	111.68670 (13120208)	114.31226
3870861.5 (13020108)	118.28884 (13020108)	108.59361 (13020108)	129.23713
3870711.5 (13020108)	116.26907 (13120208)	125.09663 (13120208)	139.43958
3870561.5 (13020108)	123.03920 (13020108)	101.46839 (13020108)	139.43309
3870411.5 (13020108)	134.48081 (13120208)	140.61089 (13020108)	126.01308
3869961.5 (13121608)	118.53906 (13020108)	87.17584 (13020108)	90.37416
3869811.5 (13121608)	152.75431 (13020108)	158.03459 (13020108)	151.73022
3869661.5 (13121608)	104.40584 (13020108)	68.42644 (13020108)	159.91971
3869511.5 (13121608)	178.68339 (13020108)	165.63845 (13020108)	158.14414
3869411.5 (13121608)	83.29832 (13020108)	55.84679 (13123108)	154.08924
3869361.5 (13121608)	199.29621 (13020108)	153.44491 (13020108)	163.79015
3869211.5 (13011408)	72.02069 (13123108)	71.61975 (13123108)	170.34073
3869061.5 (13011408)	192.67265 (13020108)	127.01814 (13020108)	170.34073
3869011.5 (13011408)	80.45365 (13123108)	73.84756 (13123108)	170.34073
3868961.5 (13011408)	161.80973 (13020108)	99.71906 (13123108)	170.34073
3868911.5 (13011408)	84.98623 (13121608)	80.27252 (13121608)	170.34073
3868861.5 (13011408)	195.76669 (13121608)	172.55297 (13121608)	170.34073
3868811.5 (13011408)	137.21504 (13121608)	125.41613 (13121608)	170.34073
3868761.5 (13011408)	193.64106 (13121608)	171.77932 (13121608)	170.34073
3868711.5 (13011408)	146.69352 (13121608)	136.69733 (13121608)	170.34073
3868661.5 (13011408)	188.25516 (13121608)	172.09739 (13121608)	170.34073
3868611.5 (13011408)	147.43932 (13121608)	135.85842 (13121608)	170.34073
3868561.5 (13011408)	202.52536 (13011408)	172.45041 (13011408)	170.34073
3868511.5 (13011408)	141.78897 (13121608)	130.87280 (13121608)	170.34073
3868461.5 (13011408)	204.94711 (13011408)	181.35395 (13011408)	170.34073
3868411.5 (13011408)	142.51605 (13011408)	121.53411 (13011408)	170.34073
3868361.5 (13011408)	224.26169 (12120708)	183.93273 (13011408)	170.34073
3868311.5 (13011408)	152.68916 (13011408)	137.22769 (13011408)	170.34073

3868911.5 |	242.61358 (12120708)	212.50980 (12120708)	172.17169
(12120708)	154.21088 (13011408)	142.71235 (13011408)	
3868761.5 |	242.61276 (13010308)	220.30104 (12120708)	196.40993
(12120708)	161.64453 (12120708)	132.85649 (13011408)	
3868611.5 |	212.89079 (13010308)	220.71226 (13010308)	197.22301
(12120708)	180.67027 (12120708)	151.06726 (12120708)	
3868461.5 |	173.39681 (13010308)	197.68920 (13010308)	198.57596
(13010308)	177.12208 (12120708)	166.80729 (12120708)	
3868311.5 |	171.23584 (13020408)	164.61344 (13010308)	184.70792
(13010308)	180.30629 (13010308)	161.05258 (12120708)	
3868161.5 |	166.05650 (13020408)	138.17014 (13020408)	157.03056
(13010308)	172.16762 (13010308)	165.28306 (13010308)	
3868011.5 |	159.98500 (13020408)	143.23817 (13020408)	126.37420
(12122808)	150.19244 (13010308)	161.82354 (13010308)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 43

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

Y-COORD | X-COORD
(METERS) |
(METERS) | 397711.79

3871011.5	|	87.33936 (13020108)
3870861.5	|	73.35003 (13020108)
3870711.5	|	56.39681 (13020108)
3870561.5	|	40.99838 (13123108)
3870411.5	|	59.90598 (13123108)
3870261.5	|	68.24025 (13123108)
3870111.5	|	67.00497 (13123108)
3869961.5	|	75.56768 (13121608)
3869811.5	|	115.11284 (13121608)
3869661.5	|	126.96641 (13121608)
3869511.5	|	126.57923 (13121608)
3869361.5	|	121.09524 (13121608)
3869211.5	|	100.27878 (13011408)
3869061.5	|	122.47066 (13011408)
3868911.5	|	130.86298 (13011408)
3868761.5	|	128.18810 (13011408)
3868611.5	|	119.03611 (12120708)
3868461.5	|	143.61462 (12120708)
3868311.5	|	155.88627 (12120708)
3868161.5	|	147.88953 (12120708)
3868011.5	|	152.31666 (13010308)

	395670.74	3868726.18	224.78275	(12121908)
395720.74	3868726.18	234.67864	(12121908)	
	395770.74	3868726.18	234.90316	(12121908)
395820.74	3868726.18	234.27561	(12121908)	
	395270.74	3868776.18	150.00075	(13121708)
395320.74	3868776.18	153.69375	(13121708)	
	395370.74	3868776.18	155.73531	(13121708)
395420.74	3868776.18	156.92298	(13121708)	
	395470.74	3868776.18	156.80368	(13121708)
395520.74	3868776.18	154.69936	(13121708)	
	395570.74	3868776.18	172.31283	(12121908)
395620.74	3868776.18	198.71097	(12121908)	
	395670.74	3868776.18	223.61453	(12121908)
395720.74	3868776.18	241.62312	(12121908)	
	395770.74	3868776.18	249.64256	(12121908)
395820.74	3868776.18	248.72500	(12121908)	
	395270.74	3868826.18	153.16363	(13121708)
395320.74	3868826.18	158.88491	(13121708)	
	395370.74	3868826.18	163.16245	(13121708)
395420.74	3868826.18	166.87459	(13121708)	
	395470.74	3868826.18	169.91256	(13121708)
395520.74	3868826.18	170.82953	(13121708)	
	395570.74	3868826.18	170.40136	(13121708)
395620.74	3868826.18	190.02440	(12121908)	
	395670.74	3868826.18	218.56924	(12121908)
395720.74	3868826.18	243.46303	(12121908)	
	395770.74	3868826.18	257.99106	(12121908)
395820.74	3868826.18	261.57263	(12121908)	
	395270.74	3868876.18	153.76848	(13121708)
395320.74	3868876.18	160.97793	(13121708)	
	395370.74	3868876.18	167.06458	(13121708)
395420.74	3868876.18	172.81150	(13121708)	
	395470.74	3868876.18	179.00941	(13121708)
395520.74	3868876.18	183.38951	(13121708)	
	395570.74	3868876.18	186.66895	(13121708)
395620.74	3868876.18	187.82179	(13121708)	
	395670.74	3868876.18	209.88660	(12121908)
395720.74	3868876.18	240.37182	(12121908)	
	395770.74	3868876.18	263.73119	(12121908)
395820.74	3868876.18	272.25443	(12121908)	
	395270.74	3868926.18	152.15381	(13121708)
395320.74	3868926.18	160.40501	(13121708)	
	395370.74	3868926.18	167.77097	(13121708)
395420.74	3868926.18	175.16488	(13121708)	
	395470.74	3868926.18	183.56548	(13121708)
395520.74	3868926.18	190.82944	(13121708)	
	395570.74	3868926.18	197.69727	(13121708)
395620.74	3868926.18	204.08483	(13121708)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
 *** AERMET - VERSION 14134 *** ***
 *** 22:26:59

PAGE 45

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF PM10 IN
 **

MICROGRAMS/M**3

X-COORD (M)		Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395670.74	3868926.18	207.61494	(13121708)	
395720.74	3868926.18	232.10677	(12121908)	
395770.74	3868926.18	263.77905	(12121908)	
395820.74	3868926.18	281.27175	(12121908)	
395270.74	3868976.18	148.83000	(13121708)	
395320.74	3868976.18	157.81828	(13121708)	
395370.74	3868976.18	166.04687	(13121708)	
395420.74	3868976.18	174.47524	(13121708)	
395470.74	3868976.18	184.21995	(13121708)	
395520.74	3868976.18	193.29580	(13121708)	
395570.74	3868976.18	202.61199	(13121708)	
395620.74	3868976.18	212.05360	(13121708)	
395670.74	3868976.18	222.08930	(13121708)	
395720.74	3868976.18	229.47141	(13121708)	
395770.74	3868976.18	256.13753	(12121908)	
395820.74	3868976.18	284.48469	(12121908)	
395270.74	3869026.18	144.17323	(13121708)	
395320.74	3869026.18	153.73862	(13121708)	
395370.74	3869026.18	162.61516	(13121708)	
395420.74	3869026.18	171.74483	(13121708)	
395470.74	3869026.18	182.25426	(13121708)	
395520.74	3869026.18	192.29585	(13121708)	
395570.74	3869026.18	202.85136	(13121708)	
395620.74	3869026.18	214.02429	(13121708)	
395670.74	3869026.18	226.73634	(13121708)	
395720.74	3869026.18	239.25470	(13121708)	
395770.74	3869026.18	250.39653	(13121708)	
395820.74	3869026.18	276.44678	(12121908)	
395270.74	3869076.18	138.33040	(13121708)	
395320.74	3869076.18	148.43240	(13121708)	
395370.74	3869076.18	157.88301	(13121708)	
395420.74	3869076.18	167.61550	(13121708)	

	395470.74	3869076.18	177.73303	(13121708)
395520.74	3869076.18		189.40175	(13121708)
	395570.74	3869076.18	200.61608	(13121708)
395620.74	3869076.18		212.49848	(13121708)
	395670.74	3869076.18	225.12510	(13121708)
395720.74	3869076.18		239.64704	(13121708)
	395770.74	3869076.18	252.39568	(13121708)
395820.74	3869076.18		264.29146	(12121908)
	395270.74	3869126.18	131.31976	(13121708)
395320.74	3869126.18		141.93701	(13121708)
	395370.74	3869126.18	151.96559	(13121708)
395420.74	3869126.18		162.29774	(13121708)
	395470.74	3869126.18	173.02235	(13121708)
395520.74	3869126.18		185.29826	(13121708)
	395570.74	3869126.18	197.11899	(13121708)
395620.74	3869126.18		209.57938	(13121708)
	395670.74	3869126.18	222.76270	(13121708)
395720.74	3869126.18		237.56546	(13121708)
	395770.74	3869126.18	250.98532	(13121708)
395820.74	3869126.18		258.30490	(13121708)
	395270.74	3869176.18	123.10680	(13121708)
395320.74	3869176.18		134.18877	(13121708)
	395370.74	3869176.18	144.79957	(13121708)
395420.74	3869176.18		155.73227	(13121708)
	395470.74	3869176.18	167.04049	(13121708)
395520.74	3869176.18		179.70649	(13121708)
	395570.74	3869176.18	192.48797	(13121708)
395620.74	3869176.18		205.60902	(13121708)
	395670.74	3869176.18	219.43284	(13121708)
395720.74	3869176.18		234.38187	(13121708)
	395770.74	3869176.18	248.82050	(13121708)
395820.74	3869176.18		256.92097	(13121708)
	395270.74	3869226.18	113.68528	(13121708)
395320.74	3869226.18		124.29764	(13121708)
	395370.74	3869226.18	136.11160	(13121708)
395420.74	3869226.18		147.80832	(13121708)
	395470.74	3869226.18	159.75916	(13121708)
395520.74	3869226.18		173.08071	(13121708)
	395570.74	3869226.18	186.55601	(13121708)
395620.74	3869226.18		200.40109	(13121708)
	395670.74	3869226.18	214.94947	(13121708)
395720.74	3869226.18		230.60474	(13121708)
	395770.74	3869226.18	245.70278	(13121708)
395820.74	3869226.18		254.45996	(13121708)
	395270.74	3869276.18	103.07582	(13121708)
395320.74	3869276.18		114.00638	(13121708)
	395370.74	3869276.18	125.91327	(13121708)
395420.74	3869276.18		138.46517	(13121708)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 46

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL
*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,
*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395470.74	3869276.18	151.00660	(13121708)	
395520.74	3869276.18	164.09169	(13121708)	
395570.74	3869276.18	179.14408	(13121708)	
395620.74	3869276.18	193.73949	(13121708)	
395670.74	3869276.18	209.06943	(13121708)	
395720.74	3869276.18	225.77699	(13121708)	
395770.74	3869276.18	241.40309	(13121708)	
395820.74	3869276.18	250.92226	(13121708)	
395270.74	3869326.18	91.37941	(13121708)	
395320.74	3869326.18	102.48714	(13121708)	
395370.74	3869326.18	114.20331	(13121708)	
395420.74	3869326.18	127.60899	(13121708)	
395470.74	3869326.18	140.69631	(13121708)	
395520.74	3869326.18	154.39592	(13121708)	
395570.74	3869326.18	170.09120	(13121708)	
395620.74	3869326.18	185.43525	(13121708)	
395670.74	3869326.18	201.56310	(13121708)	
395720.74	3869326.18	219.47269	(13121708)	
395770.74	3869326.18	235.59487	(13121708)	
395820.74	3869326.18	246.02582	(13121708)	
395270.74	3869376.18	78.79527	(13121708)	
395320.74	3869376.18	89.84153	(13121708)	
395370.74	3869376.18	101.68837	(13121708)	
395420.74	3869376.18	114.70151	(13121708)	
395470.74	3869376.18	128.79698	(13121708)	
395520.74	3869376.18	143.01812	(13121708)	
395570.74	3869376.18	158.79922	(13121708)	
395620.74	3869376.18	175.32875	(13121708)	
395670.74	3869376.18	192.23692	(13121708)	
395720.74	3869376.18	210.56543	(13121708)	
395770.74	3869376.18	227.98744	(13121708)	
395820.74	3869376.18	239.37860	(13121708)	

395270.74	3869426.18	65.50561	(13121708)
395320.74	3869426.18	76.31327	(13121708)
395370.74	3869426.18	88.00636	(13121708)
395420.74	3869426.18	100.90389	(13121708)
395470.74	3869426.18	115.33054	(13121708)
395520.74	3869426.18	129.94100	(13121708)
395570.74	3869426.18	145.96730	(13121708)
395620.74	3869426.18	163.31784	(13121708)
395670.74	3869426.18	180.93097	(13121708)
395720.74	3869426.18	199.82482	(13121708)
395770.74	3869426.18	218.33726	(13121708)
395820.74	3869426.18	230.69073	(13121708)
395270.74	3869476.18	52.34972	(13121708)
395320.74	3869476.18	62.27600	(13121708)
395370.74	3869476.18	73.45476	(13121708)
395420.74	3869476.18	85.82593	(13121708)
395470.74	3869476.18	100.37939	(13121708)
395520.74	3869476.18	115.19792	(13121708)
395570.74	3869476.18	131.05821	(13121708)
395620.74	3869476.18	149.35061	(13121708)
395670.74	3869476.18	167.56394	(13121708)
395720.74	3869476.18	187.12560	(13121708)
395770.74	3869476.18	206.43382	(13121708)
395820.74	3869476.18	219.70711	(13121708)
395270.74	3869526.18	39.52824	(13121708)
395320.74	3869526.18	48.28849	(13121708)
395370.74	3869526.18	58.48318	(13121708)
395420.74	3869526.18	70.14439	(13121708)
395470.74	3869526.18	84.17073	(13121708)
395520.74	3869526.18	98.86783	(13121708)
395570.74	3869526.18	114.87432	(13121708)
395620.74	3869526.18	133.40424	(13121708)
395670.74	3869526.18	152.07768	(13121708)
395720.74	3869526.18	171.73109	(13121708)
395770.74	3869526.18	192.16077	(13121708)
395820.74	3869526.18	206.23349	(13121708)
395270.74	3869576.18	46.77967	(12120508)
395320.74	3869576.18	52.35440	(12120508)
395370.74	3869576.18	57.95684	(12120508)
395420.74	3869576.18	63.78289	(12120508)
395470.74	3869576.18	70.26186	(12120508)
395520.74	3869576.18	81.21123	(13121708)
395570.74	3869576.18	96.99746	(13121708)
395620.74	3869576.18	114.37189	(13121708)
395670.74	3869576.18	134.46283	(13121708)
395720.74	3869576.18	154.52920	(13121708)
395770.74	3869576.18	174.77732	(13121708)
395820.74	3869576.18	190.14781	(13121708)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

X-COORD (M) COORD (M)	Y-COORD (M) Y-COORD (M)	CONC CONC	(YYMMDDHH) (YYMMDDHH)	X-
395270.74	3869626.18	53.32943	(12120508)	
395320.74	3869626.18	58.73952	(12120508)	
395370.74	3869626.18	64.03299	(12120508)	
395420.74	3869626.18	69.49463	(12120508)	
395470.74	3869626.18	75.17261	(12120508)	
395520.74	3869626.18	81.53585	(12120508)	
395570.74	3869626.18	87.80104	(12120508)	
395620.74	3869626.18	94.66275	(13121708)	
395670.74	3869626.18	114.37690	(13121708)	
395720.74	3869626.18	135.00983	(13121708)	
395770.74	3869626.18	155.60217	(13121708)	
395820.74	3869626.18	171.72174	(13121708)	
395270.74	3869676.18	59.05526	(12120508)	
395320.74	3869676.18	64.06133	(12120508)	
395370.74	3869676.18	68.96679	(12120508)	
395420.74	3869676.18	73.99903	(12120508)	
395470.74	3869676.18	79.20514	(12120508)	
395520.74	3869676.18	85.07693	(12120508)	
395570.74	3869676.18	90.81911	(12120508)	
395620.74	3869676.18	96.93454	(12120508)	
395670.74	3869676.18	103.71810	(12120508)	
395720.74	3869676.18	113.11230	(13121708)	
395770.74	3869676.18	133.90409	(13121708)	
395820.74	3869676.18	150.98394	(13121708)	
395270.74	3869726.18	63.89560	(12120508)	
395320.74	3869726.18	68.29295	(12120508)	
395370.74	3869726.18	72.76832	(12120508)	
395420.74	3869726.18	77.34576	(12120508)	
395470.74	3869726.18	82.06431	(12120508)	
395520.74	3869726.18	87.35557	(12120508)	
395570.74	3869726.18	92.77305	(12120508)	
395620.74	3869726.18	98.46071	(12120508)	

395670.74	3869726.18	104.69378	(12120508)
395720.74	3869726.18	112.24289	(12120508)
395770.74	3869726.18	120.02972	(12120508)
395820.74	3869726.18	127.10394	(13121708)
395270.74	3869776.18	67.29899	(12120508)
395320.74	3869776.18	71.12454	(12120508)
395370.74	3869776.18	75.52824	(12120508)
395420.74	3869776.18	79.67728	(12120508)
395470.74	3869776.18	83.97773	(12120508)
395520.74	3869776.18	88.49665	(12120508)
395570.74	3869776.18	93.94099	(12120508)
395620.74	3869776.18	99.31527	(12120508)
395670.74	3869776.18	105.28987	(12120508)
395720.74	3869776.18	112.32607	(12120508)
395770.74	3869776.18	120.27046	(12120508)
395820.74	3869776.18	126.77384	(12120508)
395270.74	3869826.18	69.81672	(12120508)
395320.74	3869826.18	73.36645	(12120508)
395370.74	3869826.18	77.32794	(12120508)
395420.74	3869826.18	81.19496	(12120508)
395470.74	3869826.18	85.16326	(12120508)
395520.74	3869826.18	89.38831	(12120508)
395570.74	3869826.18	94.33950	(12120508)
395620.74	3869826.18	99.75620	(12120508)
395670.74	3869826.18	105.57467	(12120508)
395720.74	3869826.18	112.17536	(12120508)
395770.74	3869826.18	119.85683	(12120508)
395820.74	3869826.18	126.82323	(12120508)
395270.74	3869876.18	71.65348	(12120508)
395320.74	3869876.18	74.86754	(12120508)
395370.74	3869876.18	78.17473	(12120508)
395420.74	3869876.18	81.82308	(12120508)
395470.74	3869876.18	85.84585	(12120508)
395520.74	3869876.18	89.87242	(12120508)
395570.74	3869876.18	94.29254	(12120508)
395620.74	3869876.18	99.73649	(12120508)
395670.74	3869876.18	105.69905	(12120508)
395720.74	3869876.18	112.24511	(12120508)
395770.74	3869876.18	119.56806	(12120508)
395820.74	3869876.18	126.80248	(12120508)
395270.74	3869926.18	68.22400	(12120508)
395320.74	3869926.18	75.81102	(12120508)
395370.74	3869926.18	78.88997	(12120508)
395420.74	3869926.18	82.14377	(12120508)
395470.74	3869926.18	86.21139	(12120508)
395520.74	3869926.18	90.11560	(12120508)
395570.74	3869926.18	94.44478	(12120508)
395620.74	3869926.18	99.31291	(12120508)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
 *** AERMET - VERSION 14134 *** ***
 *** 22:26:59

PAGE 48

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395670.74	3869926.18	105.49461	(12120508)	
395720.74	3869926.18	112.26840	(12120508)	
395770.74	3869926.18	119.58132	(12120508)	
395820.74	3869926.18	126.71188	(12120508)	
395270.74	3869976.18	67.97920	(12120508)	
395320.74	3869976.18	70.64618	(12120508)	
395370.74	3869976.18	79.28245	(12120508)	
395420.74	3869976.18	82.40624	(12120508)	
395470.74	3869976.18	86.37097	(12120508)	
395520.74	3869976.18	90.18488	(12120508)	
395570.74	3869976.18	94.42431	(12120508)	
395620.74	3869976.18	99.16489	(12120508)	
395670.74	3869976.18	104.43864	(12120508)	
395720.74	3869976.18	110.73501	(12120508)	
395770.74	3869976.18	116.35354	(12120508)	
395820.74	3869976.18	117.28578	(12120508)	
395870.74	3869976.18	137.15471	(13011508)	
395920.74	3869976.18	149.95503	(13020508)	
395970.74	3869976.18	196.47381	(13020508)	
396020.74	3869976.18	224.90142	(13020508)	
396070.74	3869976.18	240.32840	(13020508)	
396120.74	3869976.18	246.43034	(13020508)	
396170.74	3869976.18	249.46243	(13020508)	
396220.74	3869976.18	250.77020	(13020508)	
396270.74	3869976.18	250.63042	(13020508)	
396320.74	3869976.18	250.74310	(13020508)	
396370.74	3869976.18	250.78026	(13020508)	
396420.74	3869976.18	250.79003	(13020508)	
396470.74	3869976.18	248.93898	(13020508)	
396520.74	3869976.18	243.57098	(13020108)	
396570.74	3869976.18	249.95236	(13020108)	
396620.74	3869976.18	248.58995	(13020108)	

	396668.32	3869988.26	247.10060	(13020108)
396718.32	3869988.26	250.36406	(13020108)	
	396768.32	3869988.26	260.56334	(13020108)
396818.32	3869988.26	246.92834	(13020108)	
	396868.32	3869993.09	214.80034	(13020108)
396918.32	3869993.09	188.88119	(13020108)	
	396968.32	3869993.09	164.91566	(13020108)
397018.32	3869993.09	143.06122	(13020108)	
	397068.32	3869993.09	121.80606	(13020108)
397118.32	3869993.09	102.58830	(13020108)	
	397168.32	3869993.09	95.42175	(13123108)
397218.32	3869993.09	90.93971	(13123108)	
	397268.32	3869993.09	87.78693	(13123108)
395270.74	3870026.18	68.12035	(12120508)	
	395320.74	3870026.18	70.10854	(12120508)
395370.74	3870026.18	73.13356	(12120508)	
	395420.74	3870026.18	82.37824	(12120508)
395470.74	3870026.18	85.58726	(12120508)	
	395520.74	3870026.18	89.56262	(12120508)
395570.74	3870026.18	93.23653	(12120508)	
	395620.74	3870026.18	96.70698	(12120508)
395670.74	3870026.18	99.38343	(12120508)	
	395720.74	3870026.18	100.06848	(12120508)
395770.74	3870026.18	98.33975	(12120508)	
	395820.74	3870026.18	115.86427	(13011508)
395870.74	3870026.18	131.43046	(13011508)	
	395920.74	3870026.18	136.82466	(13020508)
395970.74	3870026.18	187.15747	(13020508)	
	396020.74	3870026.18	217.27696	(13020508)
396070.74	3870026.18	234.21869	(13020508)	
	396120.74	3870026.18	242.96544	(13020508)
396170.74	3870026.18	247.58005	(13020508)	
	396220.74	3870026.18	249.28693	(13020508)
396270.74	3870026.18	249.91917	(13020508)	
	396320.74	3870026.18	250.24783	(13020508)
396370.74	3870026.18	250.31531	(13020508)	
	396420.74	3870026.18	250.33126	(13020508)
396470.74	3870026.18	250.33839	(13020508)	
	396520.74	3870026.18	249.96936	(13020508)
396570.74	3870026.18	241.74622	(13020108)	
	396620.74	3870026.18	246.54125	(13020108)
396670.74	3870026.18	244.94303	(13020108)	
	396720.74	3870026.18	253.76807	(13020108)
396770.74	3870026.18	255.50224	(13020108)	
	396820.74	3870026.18	247.99043	(13020108)
396870.74	3870026.18	220.44132	(13020108)	
	396920.74	3870026.18	193.75078	(13020108)
396970.74	3870026.18	170.08145	(13020108)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** 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)	
397020.74	3870026.18	150.37653	(13020108)	
397070.74	3870026.18	127.74100	(13020108)	
397120.74	3870026.18	107.98809	(13020108)	
397170.74	3870026.18	95.09267	(13123108)	
397220.74	3870026.18	90.93517	(13123108)	
397270.74	3870026.18	87.87630	(13123108)	
395270.74	3870076.18	68.12301	(12120508)	
395320.74	3870076.18	70.09635	(12120508)	
395370.74	3870076.18	72.13110	(12120508)	
395420.74	3870076.18	75.02430	(12120508)	
395470.74	3870076.18	83.81504	(12120508)	
395520.74	3870076.18	85.89226	(12120508)	
395570.74	3870076.18	87.24236	(12120508)	
395620.74	3870076.18	88.05656	(12120508)	
395670.74	3870076.18	86.45364	(12120508)	
395720.74	3870076.18	83.19786	(12120508)	
395770.74	3870076.18	90.20880	(13011508)	
395820.74	3870076.18	114.47240	(13011508)	
395870.74	3870076.18	124.81025	(13011508)	
395920.74	3870076.18	125.79980	(13011508)	
395970.74	3870076.18	171.50306	(13020508)	
396020.74	3870076.18	204.76769	(13020508)	
396070.74	3870076.18	223.16525	(13020508)	
396120.74	3870076.18	233.03166	(13020508)	
396170.74	3870076.18	238.51187	(13020508)	
396220.74	3870076.18	241.26212	(13020508)	
396270.74	3870076.18	242.11095	(13020508)	
396320.74	3870076.18	242.41204	(13020508)	
396370.74	3870076.18	242.86600	(13020508)	
396420.74	3870076.18	242.89387	(13020508)	
396470.74	3870076.18	242.90893	(13020508)	
396520.74	3870076.18	242.88668	(13020508)	

396570.74	3870076.18	242.76700	(13020508)
396620.74	3870076.18	242.17483	(13020508)
396670.74	3870076.18	244.03879	(13020108)
396720.74	3870076.18	241.08093	(13020108)
396770.74	3870076.18	243.72676	(13020108)
396820.74	3870076.18	242.15333	(13020108)
396870.74	3870076.18	229.07585	(13020108)
396920.74	3870076.18	206.96508	(13020108)
396970.74	3870076.18	183.06155	(13020108)
397020.74	3870076.18	160.27911	(13020108)
397070.74	3870076.18	138.09878	(13020108)
397120.74	3870076.18	117.28215	(13020108)
397170.74	3870076.18	99.39630	(13020108)
397220.74	3870076.18	90.42920	(13123108)
397270.74	3870076.18	87.77570	(13123108)
395270.74	3870126.18	66.38687	(12120508)
395320.74	3870126.18	69.65904	(12120508)
395370.74	3870126.18	71.20483	(12120508)
395420.74	3870126.18	72.36583	(12120508)
395470.74	3870126.18	73.49323	(12120508)
395520.74	3870126.18	78.48758	(12120508)
395570.74	3870126.18	77.05182	(12120508)
395620.74	3870126.18	74.43193	(12120508)
395670.74	3870126.18	71.11064	(12120508)
395720.74	3870126.18	75.18473	(10011108)
395770.74	3870126.18	92.81699	(13011508)
395820.74	3870126.18	110.63923	(13011508)
395870.74	3870126.18	117.99402	(13011508)
395920.74	3870126.18	119.33779	(13011508)
395970.74	3870126.18	156.44821	(13020508)
396020.74	3870126.18	190.00750	(13020508)
396070.74	3870126.18	210.86798	(13020508)
396120.74	3870126.18	221.86508	(13020508)
396170.74	3870126.18	227.49305	(13020508)
396220.74	3870126.18	230.75570	(13020508)
396270.74	3870126.18	232.55000	(13020508)
396320.74	3870126.18	232.96759	(13020508)
396370.74	3870126.18	233.11835	(13020508)
396420.74	3870126.18	233.52791	(13020508)
396470.74	3870126.18	233.54651	(13020508)
396520.74	3870126.18	233.52362	(13020508)
396570.74	3870126.18	233.38357	(13020508)
396620.74	3870126.18	232.72435	(13020508)
396670.74	3870126.18	229.89463	(13020508)
396720.74	3870126.18	232.34375	(13020108)
396770.74	3870126.18	235.21511	(13020108)
396820.74	3870126.18	235.30208	(13020108)
396870.74	3870126.18	226.07666	(13020108)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
 *** AERMET - VERSION 14134 *** ***
 *** 22:26:59

PAGE 50

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
396920.74	3870126.18	211.18313 (13020108)	
396970.74	3870126.18	190.66217 (13020108)	
397020.74	3870126.18	168.95759 (13020108)	
397070.74	3870126.18	147.12771 (13020108)	
397120.74	3870126.18	126.30638 (13020108)	
397170.74	3870126.18	108.37664 (13020108)	
397220.74	3870126.18	91.50834 (13020108)	
397270.74	3870126.18	86.25690 (13123108)	
395270.74	3870176.18	65.09246 (12120508)	
395320.74	3870176.18	65.82443 (12120508)	
395370.74	3870176.18	67.46461 (12120508)	
395420.74	3870176.18	66.83599 (12120508)	
395470.74	3870176.18	65.01632 (12120508)	
395520.74	3870176.18	63.55056 (12120508)	
395570.74	3870176.18	64.84599 (12120508)	
395620.74	3870176.18	64.29360 (10011108)	
395670.74	3870176.18	69.20784 (10011108)	
395720.74	3870176.18	74.25375 (13011508)	
395770.74	3870176.18	93.76965 (13011508)	
395820.74	3870176.18	107.09673 (13011508)	
395870.74	3870176.18	111.97043 (13011508)	
395920.74	3870176.18	113.47399 (13011508)	
395970.74	3870176.18	142.10064 (13020508)	
396020.74	3870176.18	175.77055 (13020508)	
396070.74	3870176.18	198.60484 (13020508)	
396120.74	3870176.18	210.71834 (13020508)	
396170.74	3870176.18	217.15908 (13020508)	
396220.74	3870176.18	220.43523 (13020508)	
396270.74	3870176.18	222.43088 (13020508)	
396320.74	3870176.18	223.49736 (13020508)	
396370.74	3870176.18	223.70194 (13020508)	
396420.74	3870176.18	223.77030 (13020508)	

	396470.74	3870176.18	223.93700	(13020508)
396520.74	3870176.18	224.12110	(13020508)	
	396570.74	3870176.18	223.95647	(13020508)
396620.74	3870176.18	223.23394	(13020508)	
	396670.74	3870176.18	220.26024	(13020508)
396720.74	3870176.18	217.03532	(13020108)	
	396770.74	3870176.18	221.36826	(13020108)
396820.74	3870176.18	224.11642	(13020108)	
	396870.74	3870176.18	222.98873	(13020108)
396920.74	3870176.18	211.42764	(13020108)	
	396970.74	3870176.18	195.29281	(13020108)
397020.74	3870176.18	176.29172	(13020108)	
	397070.74	3870176.18	155.82244	(13020108)
397120.74	3870176.18	134.95481	(13020108)	
	397170.74	3870176.18	117.11575	(13020108)
397220.74	3870176.18	100.62394	(13020108)	
	397270.74	3870176.18	84.91510	(13020108)
395270.74	3870226.18	61.69727	(12120508)	
	395320.74	3870226.18	60.81652	(12120508)
395370.74	3870226.18	59.08947	(12120508)	
	395420.74	3870226.18	58.23879	(12120508)
395470.74	3870226.18	55.27695	(12120508)	
	395520.74	3870226.18	52.02901	(12120508)
395570.74	3870226.18	57.02829	(10011108)	
	395620.74	3870226.18	64.60556	(10011108)
395670.74	3870226.18	67.12374	(10011108)	
	395720.74	3870226.18	76.34614	(13011508)
395770.74	3870226.18	93.45676	(13011508)	
	395820.74	3870226.18	103.40649	(13011508)
395870.74	3870226.18	106.70525	(13011508)	
	395920.74	3870226.18	108.20414	(13011508)
395970.74	3870226.18	128.92432	(13020508)	
	396020.74	3870226.18	163.00412	(13020508)
396070.74	3870226.18	185.18868	(13020508)	
	396120.74	3870226.18	200.00529	(13020508)
396170.74	3870226.18	207.28348	(13020508)	
	396220.74	3870226.18	211.10036	(13020508)
396270.74	3870226.18	212.81764	(13020508)	
	396320.74	3870226.18	213.99772	(13020508)
396370.74	3870226.18	214.82929	(13020508)	
	396420.74	3870226.18	214.92767	(13020508)
396470.74	3870226.18	214.94982	(13020508)	
	396520.74	3870226.18	214.94413	(13020508)
396570.74	3870226.18	215.05948	(13020508)	
	396620.74	3870226.18	214.28465	(13020508)
396670.74	3870226.18	211.20138	(13020508)	
	396720.74	3870226.18	202.39541	(13020108)
396770.74	3870226.18	207.57234	(13020108)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396820.74	3870226.18	211.36173	(13020108)	
396870.74	3870226.18	212.77636	(13020108)	
396920.74	3870226.18	209.34272	(13020108)	
396970.74	3870226.18	196.26461	(13020108)	
397020.74	3870226.18	181.25519	(13020108)	
397070.74	3870226.18	163.58154	(13020108)	
397120.74	3870226.18	143.04616	(13020108)	
397170.74	3870226.18	125.50740	(13020108)	
397220.74	3870226.18	109.56902	(13020108)	
397270.74	3870226.18	93.67001	(13020108)	
395270.74	3870276.18	54.25763	(12120508)	
395320.74	3870276.18	53.34191	(12120508)	
395370.74	3870276.18	50.61635	(12120508)	
395420.74	3870276.18	48.35250	(12120508)	
395470.74	3870276.18	47.67081	(10011108)	
395520.74	3870276.18	52.60442	(10011108)	
395570.74	3870276.18	57.42037	(10011108)	
395620.74	3870276.18	63.30377	(10011108)	
395670.74	3870276.18	63.98467	(10011108)	
395720.74	3870276.18	78.11432	(13011508)	
395770.74	3870276.18	92.30957	(13011508)	
395820.74	3870276.18	99.79025	(13011508)	
395870.74	3870276.18	102.23635	(13011508)	
395920.74	3870276.18	102.70756	(13011508)	
395970.74	3870276.18	117.05896	(13020508)	
396020.74	3870276.18	150.97209	(13020508)	
396070.74	3870276.18	174.08771	(13020508)	
396120.74	3870276.18	189.55931	(13020508)	
396170.74	3870276.18	197.93842	(13020508)	
396220.74	3870276.18	202.22630	(13020508)	
396270.74	3870276.18	204.40496	(13020508)	
396320.74	3870276.18	205.33547	(13020508)	

396370.74	3870276.18	206.08329	(13020508)
396420.74	3870276.18	206.74432	(13020508)
396470.74	3870276.18	206.78435	(13020508)
396520.74	3870276.18	206.75117	(13020508)
396570.74	3870276.18	206.54433	(13020508)
396620.74	3870276.18	205.84748	(13020508)
396670.74	3870276.18	202.70567	(13020508)
396720.74	3870276.18	192.54990	(13020508)
396770.74	3870276.18	194.22008	(13020108)
396820.74	3870276.18	198.96694	(13020108)
396870.74	3870276.18	201.99976	(13020108)
396920.74	3870276.18	201.79566	(13020108)
396970.74	3870276.18	196.53932	(13020108)
397020.74	3870276.18	183.82489	(13020108)
397070.74	3870276.18	168.78854	(13020108)
397120.74	3870276.18	152.23850	(13020108)
397170.74	3870276.18	134.77673	(13020108)
397220.74	3870276.18	118.15547	(13020108)
397270.74	3870276.18	102.11880	(13020108)
395270.74	3870326.18	46.58124	(12120508)
395320.74	3870326.18	43.83080	(12120508)
395370.74	3870326.18	42.02076	(12120508)
395420.74	3870326.18	44.09395	(10011108)
395470.74	3870326.18	49.87081	(10011108)
395520.74	3870326.18	54.01421	(10011108)
395570.74	3870326.18	56.61753	(10011108)
395620.74	3870326.18	58.13316	(10011108)
395670.74	3870326.18	64.64435	(13011508)
395720.74	3870326.18	79.03184	(13011508)
395770.74	3870326.18	90.66123	(13011508)
395820.74	3870326.18	96.34986	(13011508)
395870.74	3870326.18	98.20018	(13011508)
395920.74	3870326.18	98.54310	(13011508)
395970.74	3870326.18	105.89867	(13020508)
396020.74	3870326.18	139.75900	(13020508)
396070.74	3870326.18	163.60583	(13020508)
396120.74	3870326.18	178.79920	(13020508)
396170.74	3870326.18	189.12595	(13020508)
396220.74	3870326.18	194.02119	(13020508)
396270.74	3870326.18	196.58239	(13020508)
396320.74	3870326.18	197.73987	(13020508)
396370.74	3870326.18	198.23568	(13020508)
396420.74	3870326.18	198.85653	(13020508)
396470.74	3870326.18	199.27849	(13020508)
396520.74	3870326.18	199.24469	(13020508)
396570.74	3870326.18	199.01539	(13020508)
396620.74	3870326.18	198.11367	(13020508)
396670.74	3870326.18	194.94597	(13020508)


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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***        02/06/18
*** AERMET - VERSION 14134 ***    ***
***                22:26:59

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PAGE 52

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*** MODELOPTs:    RegDEFAULT CONC ELEV RURAL
                                *** THE    1ST HIGHEST 1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL    ***
                                INCLUDING SOURCE(S):    AREA1

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*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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		** CONC OF PM_10 IN	
MICROGRAMS/M**3		**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

396770.74	3870326.18	185.51149	(13020508)
396820.74	3870326.18	181.47892	(13020108)
396870.74	3870326.18	186.97225	(13020108)
396920.74	3870326.18	191.13594	(13020108)
396970.74	3870326.18	193.04336	(13020108)
397020.74	3870326.18	191.27169	(13020108)
397070.74	3870326.18	184.77281	(13020108)
397120.74	3870326.18	173.25545	(13020108)
397170.74	3870326.18	157.61031	(13020108)
397220.74	3870326.18	142.04708	(13020108)
397270.74	3870326.18	126.38203	(13020108)
395320.74	3870376.18	110.27145	(13020108)
395370.74	3870376.18	38.12384	(12120508)
395420.74	3870376.18	36.71246	(10011108)
395470.74	3870376.18	41.62813	(10011108)
395520.74	3870376.18	46.26266	(10011108)
395570.74	3870376.18	50.21425	(10011108)
395620.74	3870376.18	54.14103	(10011108)
395670.74	3870376.18	55.13031	(10011108)
395720.74	3870376.18	54.76823	(10011108)
395770.74	3870376.18	64.23029	(13011508)
395820.74	3870376.18	79.26129	(13011508)
395870.74	3870376.18	88.72426	(13011508)
395920.74	3870376.18	93.11135	(13011508)
395970.74	3870376.18	94.53219	(13011508)
396020.74	3870376.18	94.80001	(13011508)
396070.74	3870376.18	96.15732	(13020508)
396120.74	3870376.18	129.36251	(13020508)
396170.74	3870376.18	153.67337	(13020508)
396220.74	3870376.18	169.76166	(13020508)
		180.05738	(13020508)
		186.30072	(13020508)

	396270.74	3870376.18	189.27563	(13020508)
396320.74	3870376.18	190.68644	(13020508)	
	396370.74	3870376.18	191.31762	(13020508)
396420.74	3870376.18	191.57865	(13020508)	
	396470.74	3870376.18	191.98222	(13020508)
396520.74	3870376.18	192.33700	(13020508)	
	396570.74	3870376.18	192.08512	(13020508)
396620.74	3870376.18	191.13211	(13020508)	
	396670.74	3870376.18	187.96729	(13020508)
396720.74	3870376.18	179.12239	(13020508)	
	396770.74	3870376.18	171.17438	(13120208)
396820.74	3870376.18	175.42198	(13020108)	
	396870.74	3870376.18	180.36198	(13020108)
396920.74	3870376.18	183.60500	(13020108)	
	396970.74	3870376.18	184.25543	(13020108)
397020.74	3870376.18	181.28891	(13020108)	
	397070.74	3870376.18	173.91642	(13020108)
397120.74	3870376.18	162.78845	(13020108)	
	397170.74	3870376.18	148.02690	(13020108)
397220.74	3870376.18	133.42610	(13020108)	
	397270.74	3870376.18	118.29306	(13020108)
395270.74	3870426.18	34.04379	(10011108)	
	395320.74	3870426.18	38.97406	(10011108)
395370.74	3870426.18	42.94669	(10011108)	
	395420.74	3870426.18	47.88428	(10011108)
395470.74	3870426.18	50.67229	(10011108)	
	395520.74	3870426.18	52.78066	(10011108)
395570.74	3870426.18	52.97350	(10011108)	
	395620.74	3870426.18	51.98795	(10011108)
395670.74	3870426.18	65.84970	(13011508)	
	395720.74	3870426.18	78.96500	(13011508)
395770.74	3870426.18	86.01610	(13011508)	
	395820.74	3870426.18	89.95055	(13011508)
395870.74	3870426.18	91.18284	(13011508)	
	395920.74	3870426.18	91.38143	(13011508)
395970.74	3870426.18	91.29852	(13011508)	
	396020.74	3870426.18	119.18597	(13020508)
396070.74	3870426.18	144.28644	(13020508)	
	396120.74	3870426.18	161.14993	(13020508)
396170.74	3870426.18	171.73981	(13020508)	
	396220.74	3870426.18	178.29329	(13020508)
396270.74	3870426.18	182.17701	(13020508)	
	396320.74	3870426.18	184.11706	(13020508)
396370.74	3870426.18	184.90594	(13020508)	
	396420.74	3870426.18	185.24516	(13020508)
396470.74	3870426.18	185.36648	(13020508)	
	396520.74	3870426.18	185.58529	(13020508)
396570.74	3870426.18	185.61256	(13020508)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
 *** AERMET - VERSION 14134 *** ***
 *** 22:26:59

PAGE 53

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396620.74	3870426.18	184.70840	(13020508)	
396670.74	3870426.18	181.57358	(13020508)	
396720.74	3870426.18	173.29032	(13020508)	
396770.74	3870426.18	162.40995	(13120208)	
396820.74	3870426.18	165.70988	(13120208)	
396870.74	3870426.18	169.84780	(13020108)	
396920.74	3870426.18	174.14568	(13020108)	
396970.74	3870426.18	176.46715	(13020108)	
397020.74	3870426.18	175.92086	(13020108)	
397070.74	3870426.18	171.84325	(13020108)	
397120.74	3870426.18	163.91388	(13020108)	
397170.74	3870426.18	152.54535	(13020108)	
397220.74	3870426.18	138.36699	(13020108)	
397270.74	3870426.18	125.27822	(13020108)	
395270.74	3870476.18	36.22409	(10011108)	
395320.74	3870476.18	39.95565	(10011108)	
395370.74	3870476.18	44.63830	(10011108)	
395420.74	3870476.18	47.88757	(10011108)	
395470.74	3870476.18	50.09478	(10011108)	
395520.74	3870476.18	50.19472	(10011108)	
395570.74	3870476.18	50.50244	(10011108)	
395620.74	3870476.18	54.39261	(13011508)	
395670.74	3870476.18	66.00989	(13011508)	
395720.74	3870476.18	75.58213	(13011508)	
395770.74	3870476.18	83.97651	(13011508)	
395820.74	3870476.18	86.61130	(13011508)	
395870.74	3870476.18	87.62849	(13011508)	
395920.74	3870476.18	88.23801	(13011508)	
395970.74	3870476.18	88.10120	(13011508)	
396020.74	3870476.18	110.14041	(13020508)	
396070.74	3870476.18	135.10187	(13020508)	
396120.74	3870476.18	152.95017	(13020508)	

396170.74	3870476.18	164.29587	(13020508)
396220.74	3870476.18	171.11251	(13020508)
396270.74	3870476.18	174.91539	(13020508)
396320.74	3870476.18	177.67966	(13020508)
396370.74	3870476.18	178.94822	(13020508)
396420.74	3870476.18	179.38169	(13020508)
396470.74	3870476.18	179.54642	(13020508)
396520.74	3870476.18	179.53437	(13020508)
396570.74	3870476.18	179.24939	(13020508)
396620.74	3870476.18	178.69723	(13020508)
396670.74	3870476.18	175.70410	(13020508)
396720.74	3870476.18	167.94427	(13020508)
396770.74	3870476.18	153.85988	(13120208)
396820.74	3870476.18	157.79112	(13120208)
396870.74	3870476.18	160.52236	(13120208)
396920.74	3870476.18	164.63267	(13020108)
396970.74	3870476.18	168.21157	(13020108)
397020.74	3870476.18	169.55162	(13020108)
397070.74	3870476.18	167.93869	(13020108)
397120.74	3870476.18	163.01775	(13020108)
397170.74	3870476.18	154.70681	(13020108)
397220.74	3870476.18	143.79310	(13020108)
397270.74	3870476.18	131.19422	(13020108)
395270.74	3870526.18	38.26604	(10011108)
395320.74	3870526.18	41.68216	(10011108)
395370.74	3870526.18	45.58865	(10011108)
395420.74	3870526.18	47.21159	(10011108)
395470.74	3870526.18	48.71784	(10011108)
395520.74	3870526.18	48.09526	(10011108)
395570.74	3870526.18	47.25564	(10011108)
395620.74	3870526.18	56.77026	(13011508)
395670.74	3870526.18	66.91885	(13011508)
395720.74	3870526.18	73.93678	(13011508)
395770.74	3870526.18	81.94409	(13011508)
395820.74	3870526.18	84.02948	(13011508)
395870.74	3870526.18	84.68763	(13011508)
395920.74	3870526.18	85.32903	(13011508)
395970.74	3870526.18	85.12443	(13011508)
396020.74	3870526.18	102.31971	(13020508)
396070.74	3870526.18	126.16622	(13020508)
396120.74	3870526.18	144.81226	(13020508)
396170.74	3870526.18	157.15595	(13020508)
396220.74	3870526.18	164.64099	(13020508)
396270.74	3870526.18	168.93107	(13020508)
396320.74	3870526.18	171.35552	(13020508)
396370.74	3870526.18	172.56709	(13020508)
396420.74	3870526.18	173.92334	(13020508)
396470.74	3870526.18	174.14804	(13020508)

```

*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/06/18
*** AERMET - VERSION 14134 ***   ***
***           22:26:59

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PAGE 54

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*** MODELOPTs:      RegDEFAULT CONC ELEV RURAL
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```

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

```

*** 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)	
396520.74	3870526.18	174.15360	(13020508)	
396570.74	3870526.18	173.85572	(13020508)	
396620.74	3870526.18	172.80707	(13020508)	
396670.74	3870526.18	170.29075	(13020508)	
396720.74	3870526.18	163.02240	(13020508)	
396770.74	3870526.18	148.84530	(13020508)	
396820.74	3870526.18	150.01996	(13120208)	
396870.74	3870526.18	153.40205	(13120208)	
396920.74	3870526.18	155.45726	(13120208)	
396970.74	3870526.18	159.67421	(13020108)	
397020.74	3870526.18	162.45057	(13020108)	
397070.74	3870526.18	162.84780	(13020108)	
397120.74	3870526.18	160.32113	(13020108)	
397170.74	3870526.18	154.73589	(13020108)	
397220.74	3870526.18	146.21107	(13020108)	
397270.74	3870526.18	135.47965	(13020108)	
395270.74	3870576.18	40.00393	(10011108)	
395320.74	3870576.18	42.79356	(10011108)	
395370.74	3870576.18	45.65166	(10011108)	
395420.74	3870576.18	46.21499	(10011108)	
395470.74	3870576.18	46.86054	(10011108)	
395520.74	3870576.18	45.76120	(10011108)	
395570.74	3870576.18	46.30976	(13011508)	
395620.74	3870576.18	58.66135	(13011508)	
395670.74	3870576.18	67.31066	(13011508)	
395720.74	3870576.18	72.14820	(13011508)	
395770.74	3870576.18	79.94990	(13011508)	
395820.74	3870576.18	81.60549	(13011508)	
395870.74	3870576.18	82.10521	(13011508)	
395920.74	3870576.18	82.28473	(13011508)	
395970.74	3870576.18	82.33236	(13011508)	
396020.74	3870576.18	95.18280	(13020508)	

	396070.74	3870576.18	118.56074	(13020508)
396120.74	3870576.18		136.67741	(13020508)
	396170.74	3870576.18	149.41884	(13020508)
396220.74	3870576.18		157.73285	(13020508)
	396270.74	3870576.18	163.23652	(13020508)
396320.74	3870576.18		166.00093	(13020508)
	396370.74	3870576.18	167.38850	(13020508)
396420.74	3870576.18		168.25756	(13020508)
	396470.74	3870576.18	168.61502	(13020508)
396520.74	3870576.18		169.15019	(13020508)
	396570.74	3870576.18	168.84769	(13020508)
396620.74	3870576.18		167.78452	(13020508)
	396670.74	3870576.18	164.84947	(13020508)
396720.74	3870576.18		158.16730	(13020508)
	396770.74	3870576.18	145.36458	(13020508)
396820.74	3870576.18		142.33564	(13120208)
	396870.74	3870576.18	146.35245	(13120208)
396920.74	3870576.18		149.13230	(13120208)
	396970.74	3870576.18	151.01002	(13020108)
397020.74	3870576.18		154.89800	(13020108)
	397070.74	3870576.18	156.85285	(13020108)
397120.74	3870576.18		156.35380	(13020108)
	397170.74	3870576.18	153.07492	(13020108)
397220.74	3870576.18		146.93620	(13020108)
	397270.74	3870576.18	138.30681	(13020108)
395270.74	3870626.18		41.20910	(10011108)
	395320.74	3870626.18	43.07597	(10011108)
395370.74	3870626.18		44.61421	(10011108)
	395420.74	3870626.18	44.68530	(10011108)
395470.74	3870626.18		43.78015	(10011108)
	395520.74	3870626.18	43.26005	(10011108)
395570.74	3870626.18		48.62097	(13011508)
	395620.74	3870626.18	59.55880	(13011508)
395670.74	3870626.18		67.29120	(13011508)
	395720.74	3870626.18	71.02435	(13011508)
395770.74	3870626.18		72.37648	(13011508)
	395820.74	3870626.18	74.52697	(13011508)
395870.74	3870626.18		79.68706	(13011508)
	395920.74	3870626.18	79.61248	(13011508)
395970.74	3870626.18		79.64796	(13011508)
	396020.74	3870626.18	88.67667	(13020508)
396070.74	3870626.18		111.45942	(13020508)
	396120.74	3870626.18	129.72921	(13020508)
396170.74	3870626.18		142.84166	(13020508)
	396220.74	3870626.18	151.47219	(13020508)
396270.74	3870626.18		156.74543	(13020508)
	396320.74	3870626.18	160.19047	(13020508)
396370.74	3870626.18		162.23671	(13020508)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 55

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396420.74	3870626.18	163.35450	(13020508)	
396470.74	3870626.18	163.71156	(13020508)	
396520.74	3870626.18	163.76811	(13020508)	
396570.74	3870626.18	163.46652	(13020508)	
396620.74	3870626.18	162.89031	(13020508)	
396670.74	3870626.18	160.05620	(13020508)	
396720.74	3870626.18	153.86958	(13020508)	
396770.74	3870626.18	141.97258	(13020508)	
396820.74	3870626.18	134.48558	(13120208)	
396870.74	3870626.18	139.27078	(13120208)	
396920.74	3870626.18	142.78787	(13120208)	
396970.74	3870626.18	144.86477	(13120208)	
397020.74	3870626.18	147.04919	(13020108)	
397070.74	3870626.18	150.23432	(13020108)	
397120.74	3870626.18	151.38717	(13020108)	
397170.74	3870626.18	150.09242	(13020108)	
397220.74	3870626.18	146.12839	(13020108)	
397270.74	3870626.18	139.61352	(13020108)	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 56

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE SUMMARY OF MAXIMUM PERIOD

(43872 HRS) RESULTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

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

ALL	1ST HIGHEST VALUE IS	1.22876	AT (	396361.79,
3869511.46,	774.00, 774.00,	0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	1.22365	AT (	396211.79,
3869511.46,	775.00, 775.00,	0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	1.22313	AT (	396211.79,
3869661.46,	776.00, 776.00,	0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	1.21420	AT (	396361.79,
3869361.46,	774.00, 774.00,	0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	1.20383	AT (	396511.79,
3869511.46,	773.30, 773.30,	0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	1.19947	AT (	396361.79,
3869661.46,	774.30, 774.30,	0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	1.19661	AT (	396511.79,
3869661.46,	774.00, 774.00,	0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	1.18444	AT (	396211.79,
3869361.46,	774.00, 774.00,	0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	1.17438	AT (	396511.79,
3869361.46,	773.00, 773.00,	0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	1.16383	AT (	396061.79,
3869511.46,	776.10, 776.10,	0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 57

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE SUMMARY OF

HIGHEST 1-HR RESULTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

DATE

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

ALL HIGH 1ST HIGH VALUE IS 284.48469 ON 12121908: AT (
395820.74, 3868976.18, 776.10, 776.10, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/06/18
*** AERMET - VERSION 14134 *** ***
*** 22:26:59

PAGE 58

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 8029 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 5748 Calm Hours Identified

A Total of 2281 Missing Hours Identified (5.20 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

AERMOD Outputs

Operations

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 2/7/2018
** File: C:\Lakes\AERMOD View\EAFB_Solar_Ops\EAFB_Solar_Ops.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\EAFB_Solar\EAFB_Solar.isc
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL EAFB_Solar_Ops.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION AREA1      AREA      395860.579  3869879.650      778.000
** Source Parameters **
  SRCPARAM AREA1      0.0002441406      5.000      64.000      64.000
0.000      1.200

** Variable Emissions Type: "By Month / Hour / Seven Days (MHRDOW7)"
** Variable Emission Scenario: "Scenario 1"
** Month = January; Day of Week = Monday
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Month = February; Day of Week = Monday
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Month = March; Day of Week = Monday
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT AREA1      MHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Month = April; Day of Week = Monday

```


SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED EAFB_Solar_Ops.rou

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "723810 - Edwards AFB MetData - CARB\723810.SFC"

PROFFILE "723810 - Edwards AFB MetData - CARB\723810.PFL"

SURFDATA 23114 2009

UAIRDATA 3190 2009

PROFBASE 704.4 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST EAFB_SOLAR_OPS.AD\01H1GALL.PLT 31

PLOTFILE PERIOD ALL EAFB_SOLAR_OPS.AD\PE00GALL.PLT 32

SUMMFILE EAFB_Solar_Ops.sum

OU FINISHED

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** 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 RURAL Dispersion Only.

**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.

**Other Options Specified:

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: PM₁₀

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

and Calculates PERIOD Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and
1339 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 1 AREA type source(s)
and: 0 LINE 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: 14134

**Output Options Selected:

Model Outputs Tables of PERIOD 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) = 704.40 ;
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 = 3.7 MB of RAM.

**Detailed Error/Message File: EAFB_Solar_Ops.err
**File for Summary of Results: EAFB_Solar_Ops.sum

```

*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE      2
*** MODELOPTs:   RegDEFAULT CONC  ELEV  RURAL

```

*** AREA SOURCE DATA

X-DIM SOURCE OF AREA ID (METERS)	Y-DIM OF AREA (METERS)	NUMBER PART. CATS. (DEG.)	EMISSION RATE (GRAMS/SEC /METER**2) (METERS)	COORD (SW CORNER)		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)
				URBAN SOURCE (METERS)	EMISSION RATE SCALAR VARY BY		
AREA1 64.00	64.00	0 0.00	0.24414E-03 1.20	395860.6 NO	3869879.6 MHRDOW7	778.0	5.00

```

*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***       02/07/18
*** AERMET - VERSION 14134 ***   ***
***      13:21:41

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PAGE 3
*** MODELOPTs:      RegDEFAULT CONC ELEV RURAL

```

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*** SOURCE IDs DEFINING SOURCE

```

```

GROUPS ***

```

SRCGROUP ID	SOURCE IDs
-----	-----

ALL	AREA1	,
-----	-------	---

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*** AERMOD - VERSION 16216r ***      *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc      ***      02/07/18
*** AERMET - VERSION 14134 ***      ***
***      13:21:41

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PAGE 4

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY MONTHLY,
DIURNALLY AND BY DAY OF WEEK (MHRDOW) *

```

SOURCE ID = AREA1      ; SOURCE TYPE = AREA      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
MONTH = JANUARY ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
MONTH = FEBRUARY ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
MONTH = MARCH ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
MONTH = APRIL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
MONTH = MAY ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .1000E+01  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .0000E+00 12 .1000E+01 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

```


9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 5

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY MONTHLY,
DIURNALLY AND BY DAY OF WEEK (MHRDOW7) *

```

SOURCE ID = AREA1           ; SOURCE TYPE = AREA           :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----

```

```

MONTH = JANUARY ; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = FEBRUARY ; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MARCH ; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = APRIL ; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MAY ; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .1000E+01  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .0000E+00 12 .1000E+01 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

```


9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

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***      13:21:41

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PAGE 6

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY MONTHLY,
DIURNALLY AND BY DAY OF WEEK (MHRDOW) *

```

SOURCE ID = AREA1      ; SOURCE TYPE = AREA      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                     MONTH = JANUARY ; DAY OF
WEEK = WEDNESDY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     MONTH = FEBRUARY ; DAY OF
WEEK = WEDNESDY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     MONTH = MARCH ; DAY OF
WEEK = WEDNESDY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     MONTH = APRIL ; DAY OF
WEEK = WEDNESDY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     MONTH = MAY ; DAY OF
WEEK = WEDNESDY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .1000E+01  8 .1000E+01
  9 .1000E+01 10 .1000E+01 11 .0000E+00 12 .1000E+01 13
.1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

```


9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		


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PAGE 7

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY MONTHLY,
DIURNALLY AND BY DAY OF WEEK (MHRDOW7) *

```

SOURCE ID = AREA1 ; SOURCE TYPE = AREA :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

```

```

-----
MONTH = JANUARY ; DAY OF
WEEK = THURSDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = FEBRUARY ; DAY OF
WEEK = THURSDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MARCH ; DAY OF
WEEK = THURSDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = APRIL ; DAY OF
WEEK = THURSDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MAY ; DAY OF
WEEK = THURSDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

```


9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

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PAGE 8

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY MONTHLY,
DIURNALLY AND BY DAY OF WEEK (MHRDOW) *

```

SOURCE ID = AREA1 ; SOURCE TYPE = AREA :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
-----

```

```

MONTH = JANUARY ; DAY OF
WEEK = FRIDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = FEBRUARY ; DAY OF
WEEK = FRIDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MARCH ; DAY OF
WEEK = FRIDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = APRIL ; DAY OF
WEEK = FRIDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MAY ; DAY OF
WEEK = FRIDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

```


9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

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View\EAFB_Solar\EAFB_Solar.isc      ***      02/07/18
*** AERMET - VERSION 14134 ***      ***
***      13:21:41

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PAGE      9
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  RURAL

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```

* SOURCE EMISSION RATE SCALARS WHICH VARY MONTHLY,
DIURNALLY AND BY DAY OF WEEK (MHRDOW7) *

```

```

SOURCE ID = AREA1      ; SOURCE TYPE = AREA      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR

```

```

-----
-----

```

```

MONTH = JANUARY ; DAY OF
WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = FEBRUARY ; DAY OF
WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MARCH ; DAY OF
WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = APRIL ; DAY OF
WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

MONTH = MAY ; DAY OF
WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

```


9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

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PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY MONTHLY,
DIURNALLY AND BY DAY OF WEEK (MHRDOW7) *

```

SOURCE ID = AREA1      ; SOURCE TYPE = AREA      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR

```

MONTH = JANUARY ; DAY OF

```

WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

MONTH = FEBRUARY ; DAY OF

```

WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

MONTH = MARCH ; DAY OF

```

WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

MONTH = APRIL ; DAY OF

```

WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

```

MONTH = MAY ; DAY OF

```

WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13
.0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

```


9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13
.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

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*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** GRIDDED RECEPTOR NETWORK

SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

394711.8, 394861.8, 395011.8, 395161.8, 395311.8, 395461.8,
395611.8, 395761.8, 395911.8, 396061.8,
396211.8, 396361.8, 396511.8, 396661.8, 396811.8, 396961.8,
397111.8, 397261.8, 397411.8, 397561.8,
397711.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3868011.5, 3868161.5, 3868311.5, 3868461.5, 3868611.5, 3868761.5,
3868911.5, 3869061.5, 3869211.5, 3869361.5,
3869511.5, 3869661.5, 3869811.5, 3869961.5, 3870111.5, 3870261.5,
3870411.5, 3870561.5, 3870711.5, 3870861.5,
3871011.5,

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View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
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***           13:21:41

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PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN

METERS *

Y-COORD (METERS)	X-COORD				
(METERS)		394711.79	394861.79	395011.79	395161.79
		395311.79	395461.79	395611.79	395761.79
		395911.79			
3871011.46		790.40	790.00	788.30	786.30
786.00	785.00	784.10	784.00	783.00	
3870861.46		791.00	790.00	788.00	786.00
785.00	784.40	784.00	783.00	782.00	
3870711.46		792.00	790.90	788.30	786.00
785.00	784.00	783.00	782.00	781.00	
3870561.46		804.10	799.10	794.80	786.00
785.00	783.30	782.10	781.30	780.40	
3870411.46		804.70	799.60	801.90	786.60
784.30	783.00	782.00	781.00	780.00	
3870261.46		786.30	786.00	786.00	785.00
783.10	782.00	781.00	780.30	780.00	
3870111.46		785.40	785.00	784.10	783.10
782.10	781.40	781.00	780.00	779.00	
3869961.46		785.00	784.00	783.00	782.30
781.40	780.30	780.00	779.00	778.40	
3869811.46		784.10	784.00	783.00	782.00
781.00	780.00	779.00	778.40	778.00	
3869661.46		784.00	783.30	783.00	781.30
780.20	780.00	779.00	778.00	777.00	
3869511.46		784.00	783.10	782.30	781.00
780.00	779.30	778.30	777.30	777.00	
3869361.46		784.00	783.00	782.00	781.00
780.00	779.00	778.00	777.00	777.00	
3869211.46		784.00	783.00	782.00	780.40
780.00	779.00	778.00	777.00	776.00	
3869061.46		784.00	783.00	781.30	780.00
779.30	779.00	778.00	777.00	776.00	
3868911.46		784.00	783.00	781.90	780.90
779.30	778.30	777.10	776.40	776.00	
3868761.46		784.00	783.00	781.30	780.00
779.10	778.00	777.00	776.00	776.00	

3868611.46	|	784.00	782.40	781.00	780.00
779.00	777.30	776.00	774.30	774.00	
3868461.46	|	784.00	782.30	781.00	780.00
778.40	777.00	775.10	774.00	773.00	
3868311.46	|	784.00	782.00	780.10	779.30
778.00	776.30	774.30	774.00	773.00	
3868161.46	|	783.30	782.00	781.00	779.10
778.00	776.00	774.30	773.30	772.10	
3868011.46		783.30	782.00	780.30	779.00
777.30	775.30	774.10	773.00	772.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN

METERS *

Y-COORD (METERS)	X-COORD				
(METERS)	396061.79	396211.79	396361.79	396511.79	
	396661.79	396811.79	396961.79	397111.79	397261.79
3871011.46	782.00	782.00	781.00	781.00	
780.00	780.00	779.00	779.00	778.80	
3870861.46	781.10	781.00	781.00	780.00	780.00
780.00	779.00	779.00	778.00	778.20	
3870711.46	781.00	780.00	780.00	780.00	779.40
779.10	778.40	778.00	778.00	777.30	
3870561.46	780.00	779.20	779.00	779.00	778.10
778.00	777.00	777.00	777.00	776.60	
3870411.46	779.00	778.40	778.00	778.00	777.40
777.00	777.00	777.00	776.00	775.70	
3870261.46	779.00	778.00	777.40	777.40	777.00
776.20	776.20	776.00	775.00	774.60	
3870111.46	778.00	777.40	777.00	777.00	776.00
776.00	775.20	775.00	774.00	773.90	
3869961.46	778.00	777.00	776.00	776.00	775.10
774.00	774.40	774.00	774.00	773.00	
3869811.46	777.00	776.00	775.30	775.30	774.10
774.00	774.00	773.40	773.00	772.10	
3869661.46	777.00	776.00	774.30	774.30	774.00
773.00	773.00	772.00	771.00	771.50	
3869511.46	776.10	775.00	774.00	774.00	773.30
773.00	772.00	771.00	771.00	770.90	
3869361.46	775.30	774.00	774.00	774.00	773.00
772.00	771.00	771.00	770.40	770.20	
3869211.46	775.00	774.00	773.10	773.10	772.10
771.00	770.40	770.00	769.20	769.60	
3869061.46	774.30	773.30	772.10	772.10	771.00
771.00	770.00	769.10	769.00	769.40	
3868911.46	774.00	773.00	771.00	771.00	771.00
770.10	770.00	769.00	769.00	768.50	
3868761.46	783.70	784.40	772.10	772.10	771.00
770.00	769.00	769.00	768.20	767.80	

3868611.46	|	779.10	781.70	773.40	771.30
769.40	768.10	768.00	768.00	767.00	
3868461.46	|	772.20	772.20	772.10	770.10
769.00	768.00	767.00	766.40	766.40	
3868311.46	|	770.90	771.00	770.40	769.10
768.00	767.10	766.40	766.00	765.80	
3868161.46	|	771.00	770.00	770.00	769.00
767.30	766.00	766.00	766.00	765.40	
3868011.46		771.00	770.00	770.00	769.00
767.90	766.00	766.00	765.10	765.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 14

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** NETWORK ID: UCART1   ;   NETWORK

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TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN

METERS *

Y-COORD (METERS)	X-COORD		
(METERS)	397411.79	397561.79	397711.79
3871011.46	778.20	777.20	776.90
3870861.46	777.20	777.30	776.70
3870711.46	777.00	776.60	776.00
3870561.46	776.10	776.00	775.50
3870411.46	775.20	775.20	774.60
3870261.46	774.10	774.30	774.00
3870111.46	773.60	773.60	773.00
3869961.46	772.70	772.40	771.60
3869811.46	771.80	771.50	770.90
3869661.46	771.10	771.10	770.60
3869511.46	771.10	770.40	769.90
3869361.46	770.00	769.70	769.30
3869211.46	769.10	768.80	768.50
3869061.46	768.40	767.90	767.90
3868911.46	768.20	767.60	766.90
3868761.46	767.30	766.60	766.00
3868611.46	766.30	765.40	765.10
3868461.46	765.70	765.00	764.70
3868311.46	765.40	765.00	764.70
3868161.46	765.00	765.00	764.70
3868011.46	765.00	765.00	764.70

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN

METERS *

Y-COORD (METERS)	X-COORD (METERS)	X-COORD (METERS)	X-COORD (METERS)	X-COORD (METERS)	X-COORD (METERS)
395311.79	395461.79	395611.79	395761.79	395911.79	
3871011.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3870861.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3870711.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3870561.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3870411.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3870261.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3870111.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3869961.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3869811.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3869661.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3869511.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	1275.00	
3869361.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1275.00	777.00	
3869211.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	1273.00	776.00	
3869061.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	1275.00	777.00	776.00	
3868911.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1275.00	777.10	776.40	776.00	
3868761.46	1275.00	1275.00	1275.00	1275.00	
1275.00	1245.00	777.00	776.00	802.00	

3868611.46	|	1275.00	1275.00	1275.00	1275.00
1275.00	777.30	776.00	774.30	802.00	
3868461.46	|	1275.00	1275.00	1275.00	1275.00
778.40	777.00	775.10	774.00	773.00	
3868311.46	|	1275.00	1275.00	1275.00	779.30
778.00	776.30	774.30	774.00	773.00	
3868161.46	|	1275.00	1245.00	781.00	779.10
778.00	776.00	774.30	773.30	772.10	
3868011.46		1245.00	782.00	780.30	779.00
777.30	775.30	774.10	773.00	772.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 16

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN

METERS *

Y-COORD (METERS)	X-COORD				
(METERS)		396061.79	396211.79	396361.79	396511.79
396661.79	396811.79	396961.79	397111.79	397261.79	

3871011.46	1275.00	1275.00	1275.00	781.00	
780.00	780.00	779.00	779.00	778.80	
3870861.46	1275.00	1275.00	781.00	780.00	
780.00	779.00	779.00	778.00	778.20	
3870711.46	1275.00	1275.00	780.00	779.40	
779.10	778.40	778.00	778.00	777.30	
3870561.46	1275.00	1275.00	779.00	778.10	
778.00	777.00	777.00	777.00	776.60	
3870411.46	1275.00	1275.00	778.00	777.40	
777.00	777.00	777.00	776.00	775.70	
3870261.46	1275.00	1275.00	777.40	777.00	
776.20	776.20	776.00	775.00	774.60	
3870111.46	1275.00	777.40	777.00	776.00	
776.00	775.20	775.00	774.00	773.90	
3869961.46	1275.00	777.00	776.00	775.10	
774.00	774.40	774.00	774.00	773.00	
3869811.46	1275.00	776.00	775.30	774.10	
774.00	774.00	773.40	773.00	772.10	
3869661.46	777.00	776.00	774.30	774.00	
773.00	773.00	772.00	771.00	771.50	
3869511.46	776.10	775.00	774.00	773.30	
773.00	772.00	771.00	771.00	770.90	
3869361.46	775.30	774.00	774.00	773.00	
772.00	771.00	771.00	770.40	770.20	
3869211.46	775.00	774.00	773.10	772.10	
771.00	770.40	770.00	769.20	769.60	
3869061.46	774.30	773.30	772.10	771.00	
771.00	770.00	769.10	769.00	769.40	
3868911.46	802.00	802.00	802.00	771.00	
770.10	770.00	769.00	769.00	768.50	
3868761.46	802.00	802.00	802.00	771.00	
770.00	769.00	769.00	768.20	767.80	

3868611.46	|	802.00	802.00	802.00	771.30
769.40	768.10	768.00	768.00	767.00	
3868461.46	|	802.00	802.00	772.10	770.10
769.00	768.00	767.00	766.40	766.40	
3868311.46	|	770.90	771.00	770.40	769.10
768.00	767.10	766.40	766.00	765.80	
3868161.46	|	771.00	770.00	770.00	769.00
767.30	766.00	766.00	766.00	765.40	
3868011.46		771.00	770.00	770.00	769.00
767.90	766.00	766.00	765.10	765.00	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 17

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN

METERS *

Y-COORD (METERS)	X-COORD		
(METERS)	397411.79	397561.79	397711.79
3871011.46	778.20	777.20	776.90
3870861.46	777.20	777.30	776.70
3870711.46	777.00	776.60	776.00
3870561.46	776.10	776.00	775.50
3870411.46	775.20	775.20	774.60
3870261.46	774.10	774.30	774.00
3870111.46	773.60	773.60	773.00
3869961.46	772.70	772.40	771.60
3869811.46	771.80	771.50	770.90
3869661.46	771.10	771.10	770.60
3869511.46	771.10	770.40	769.90
3869361.46	770.00	769.70	769.30
3869211.46	769.10	768.80	768.50
3869061.46	768.40	767.90	767.90
3868911.46	768.20	767.60	766.90
3868761.46	767.30	766.60	766.00
3868611.46	766.30	765.40	765.10
3868461.46	765.70	765.00	764.70
3868311.46	765.40	765.00	764.70
3868161.46	765.00	765.00	764.70
3868011.46	765.00	765.00	764.70

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 18

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 22

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 23

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   02/07/18
*** AERMET - VERSION 14134 ***   ***
***   13:21:41

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PAGE 24

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 25

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***    ***
***          13:21:41

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PAGE 26

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*** MODELOPTs:   RegDEFAULT CONC  ELEV  RURAL

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*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN

RECEPTORS ***

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

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(396320.7, 3870626.2, 779.8, 779.8, 0.0); (

396370.7, 3870626.2, 779.3, 779.3, 0.0);

(396420.7, 3870626.2, 779.0, 779.0, 0.0); (

396470.7, 3870626.2, 779.0, 779.0, 0.0);

(396520.7, 3870626.2, 779.0, 779.0, 0.0); (

396570.7, 3870626.2, 779.0, 779.0, 0.0);

(396620.7, 3870626.2, 778.4, 778.4, 0.0); (

396670.7, 3870626.2, 778.3, 778.3, 0.0);

(396720.7, 3870626.2, 778.0, 778.0, 0.0); (

396770.7, 3870626.2, 778.0, 778.0, 0.0);

(396820.7, 3870626.2, 778.0, 778.0, 0.0); (

396870.7, 3870626.2, 777.4, 777.4, 0.0);

(396920.7, 3870626.2, 777.0, 777.0, 0.0); (

396970.7, 3870626.2, 777.0, 777.0, 0.0);

(397020.7, 3870626.2, 777.0, 777.0, 0.0); (

397070.7, 3870626.2, 777.0, 777.0, 0.0);

(397120.7, 3870626.2, 777.0, 777.0, 0.0); (

397170.7, 3870626.2, 777.0, 777.0, 0.0);

(397220.7, 3870626.2, 777.0, 777.0, 0.0); (

397270.7, 3870626.2, 777.0, 777.0, 0.0);

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 28
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** METEOROLOGICAL DAYS

SELECTED FOR PROCESSING ***

(1=YES;

0=NO)

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                1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
                1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
                1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
                1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
                1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
                1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
                1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
                1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 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,

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***                               02/07/18
*** AERMET - VERSION 14134 ***   ***
***                               13:21:41

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PAGE 29
*** MODELOPTs:   RegDEFAULT CONC ELEV RURAL

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*** UP TO THE FIRST 24 HOURS OF

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METEOROLOGICAL DATA ***

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Surface file: 723810 - Edwards AFB MetData - CARB\723810.SFC
Met Version: 14134
Profile file: 723810 - Edwards AFB MetData - CARB\723810.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23114           Upper air station no.:
3190
Name: UNKNOWN                       Name:
UNKNOWN                             Year: 2009
2009

```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
09	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.8	2.0							
09	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.6	2.0							
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.5	2.0							
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	272.1	2.0							
09	01	01	1	05	-6.5	0.087	-9.000	-9.000	-999.	62.	8.5	0.18	
1.43	1.00	1.76	283.	10.0	271.4	2.0							
09	01	01	1	06	-11.7	0.117	-9.000	-9.000	-999.	96.	11.5	0.18	
1.43	1.00	2.36	232.	10.0	271.5	2.0							
09	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	1.00	0.00	0.	10.0	270.8	2.0							
09	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	
1.43	0.56	0.00	0.	10.0	271.9	2.0							
09	01	01	1	09	22.2	-9.000	-9.000	-9.000	55.	-999.	-99999.0	0.16	
1.43	0.33	0.00	0.	10.0	274.5	2.0							
09	01	01	1	10	77.9	0.283	0.668	0.009	128.	361.	-24.3	0.18	
1.43	0.25	2.36	201.	10.0	277.6	2.0							
09	01	01	1	11	117.0	-9.000	-9.000	-9.000	216.	-999.	-99999.0	0.16	
1.43	0.22	0.00	0.	10.0	280.1	2.0							
09	01	01	1	12	136.4	0.247	1.087	0.009	315.	295.	-9.3	0.20	
1.43	0.22	1.76	86.	10.0	282.1	2.0							
09	01	01	1	13	135.3	0.235	1.200	0.008	427.	274.	-8.0	0.16	
1.43	0.22	1.76	999.	10.0	284.2	2.0							

09	01	01	1	14	113.6	-9.000	-9.000	-9.000	526.	-999.	-99999.0	0.16
1.43	0.23	0.00	0.	10.0	285.5	2.0						
09	01	01	1	15	72.4	-9.000	-9.000	-9.000	617.	-999.	-99999.0	0.16
1.43	0.26	0.00	0.	10.0	286.8	2.0						
09	01	01	1	16	15.5	-9.000	-9.000	-9.000	633.	-999.	-99999.0	0.16
1.43	0.35	0.00	0.	10.0	287.1	2.0						
09	01	01	1	17	5.3	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	0.64	0.00	0.	10.0	284.1	2.0						
09	01	01	1	18	-4.9	0.077	-9.000	-9.000	-999.	51.	7.7	0.20
1.43	1.00	1.50	97.	10.0	281.1	2.0						
09	01	01	1	19	-4.7	0.074	-9.000	-9.000	-999.	48.	7.3	0.17
1.43	1.00	1.50	174.	10.0	279.1	2.0						
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	277.1	2.0						
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	275.1	2.0						
09	01	01	1	22	-16.9	0.158	-9.000	-9.000	-999.	151.	19.5	0.18
1.43	1.00	2.60	222.	10.0	276.1	2.0						
09	01	01	1	23	-16.8	0.156	-9.000	-9.000	-999.	148.	18.8	0.18
1.43	1.00	2.60	210.	10.0	274.1	2.0						
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16
1.43	1.00	0.00	0.	10.0	274.1	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	-999.	-99.00	272.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    02/07/18
*** AERMET - VERSION 14134 ***    ***
***    13:21:41

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PAGE 30

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

Y-COORD (METERS)	X-COORD				
395311.79	394711.79	394861.79	395011.79	395161.79	
395461.79	395611.79	395761.79	395911.79		
3871011.46	0.00019	0.00018	0.00017	0.00018	
0.00020	0.00023	0.00030	0.00041	0.00059	
3870861.46	0.00022	0.00023	0.00023	0.00023	0.00023
0.00025	0.00030	0.00038	0.00054	0.00084	
3870711.46	0.00022	0.00027	0.00030	0.00032	0.00032
0.00034	0.00039	0.00051	0.00076	0.00127	
3870561.46	0.00019	0.00026	0.00034	0.00042	0.00042
0.00048	0.00056	0.00073	0.00113	0.00213	
3870411.46	0.00015	0.00022	0.00032	0.00048	0.00048
0.00067	0.00086	0.00113	0.00183	0.00409	
3870261.46	0.00015	0.00020	0.00029	0.00046	0.00046
0.00077	0.00130	0.00205	0.00344	0.01002	
3870111.46	0.00018	0.00023	0.00032	0.00047	0.00047
0.00078	0.00154	0.00361	0.00872	0.04373	
3869961.46	0.00028	0.00036	0.00049	0.00073	0.00073
0.00119	0.00225	0.00558	0.02858	1.44693	
3869811.46	0.00039	0.00052	0.00075	0.00117	0.00117
0.00206	0.00425	0.01091	0.03926	0.06542	
3869661.46	0.00048	0.00066	0.00095	0.00144	0.00144
0.00228	0.00373	0.00625	0.00919	0.00963	
3869511.46	0.00052	0.00069	0.00092	0.00124	0.00124
0.00167	0.00225	0.00295	0.00328	0.00343	
3869361.46	0.00049	0.00060	0.00074	0.00091	0.00091
0.00111	0.00137	0.00154	0.00161	0.00171	
3869211.46	0.00042	0.00048	0.00056	0.00065	0.00065
0.00077	0.00087	0.00090	0.00096	0.00102	
3869061.46	0.00034	0.00038	0.00043	0.00049	0.00049
0.00056	0.00058	0.00059	0.00066	0.00068	

3868911.46	|	0.00027	0.00030	0.00034	0.00038
0.00041	0.00041	0.00043	0.00049	0.00050	
3868761.46	|	0.00022	0.00025	0.00028	0.00030
0.00030	0.00030	0.00033	0.00038	0.00039	
3868611.46	|	0.00019	0.00021	0.00023	0.00024
0.00023	0.00024	0.00028	0.00032	0.00031	
3868461.46	|	0.00017	0.00018	0.00019	0.00019
0.00019	0.00020	0.00024	0.00027	0.00026	
3868311.46	|	0.00015	0.00016	0.00016	0.00016
0.00016	0.00018	0.00021	0.00024	0.00023	
3868161.46	|	0.00013	0.00013	0.00013	0.00013
0.00014	0.00016	0.00019	0.00021	0.00020	
3868011.46		0.00011	0.00011	0.00011	0.00012
0.00013	0.00015	0.00018	0.00019	0.00018	


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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 31

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

Y-COORD (METERS)	X-COORD				
(METERS)	396061.79	396211.79	396361.79	396511.79	
396661.79	396811.79	396961.79	397111.79	397261.79	
3871011.46	0.00088	0.00137	0.00200	0.00258	
0.00297	0.00311	0.00301	0.00275	0.00241	
3870861.46	0.00136	0.00220	0.00318	0.00392	
0.00422	0.00407	0.00363	0.00309	0.00257	
3870711.46	0.00226	0.00385	0.00533	0.00602	
0.00580	0.00502	0.00410	0.00328	0.00263	
3870561.46	0.00431	0.00737	0.00920	0.00892	
0.00740	0.00571	0.00433	0.00332	0.00260	
3870411.46	0.00982	0.01538	0.01536	0.01191	
0.00843	0.00594	0.00431	0.00323	0.00251	
3870261.46	0.02831	0.03214	0.02201	0.01351	
0.00858	0.00579	0.00415	0.00311	0.00242	
3870111.46	0.10230	0.05213	0.02437	0.01329	
0.00824	0.00559	0.00404	0.00306	0.00240	
3869961.46	0.20632	0.05172	0.02245	0.01243	
0.00787	0.00543	0.00397	0.00303	0.00239	
3869811.46	0.03490	0.02333	0.01409	0.00910	
0.00629	0.00458	0.00348	0.00273	0.00220	
3869661.46	0.00322	0.00321	0.00415	0.00401	
0.00348	0.00291	0.00243	0.00204	0.00173	
3869511.46	0.00204	0.00074	0.00082	0.00119	
0.00141	0.00145	0.00139	0.00128	0.00117	
3869361.46	0.00138	0.00057	0.00028	0.00031	
0.00046	0.00059	0.00068	0.00071	0.00071	
3869211.46	0.00094	0.00051	0.00023	0.00014	
0.00015	0.00021	0.00029	0.00035	0.00039	
3869061.46	0.00068	0.00045	0.00023	0.00012	
0.00008	0.00008	0.00011	0.00016	0.00020	

3868911.46	|	0.00051	0.00040	0.00022	0.00012
0.00007	0.00005	0.00005	0.00007	0.00009	
3868761.46	|	0.00039	0.00035	0.00022	0.00012
0.00007	0.00004	0.00003	0.00003	0.00004	
3868611.46	|	0.00033	0.00032	0.00022	0.00012
0.00007	0.00005	0.00003	0.00002	0.00002	
3868461.46	|	0.00027	0.00029	0.00021	0.00013
0.00008	0.00005	0.00003	0.00002	0.00002	
3868311.46	|	0.00023	0.00025	0.00021	0.00013
0.00008	0.00005	0.00003	0.00002	0.00002	
3868161.46	|	0.00020	0.00023	0.00021	0.00014
0.00008	0.00005	0.00004	0.00003	0.00002	
3868011.46		0.00018	0.00020	0.00020	0.00014
0.00009	0.00005	0.00004	0.00003	0.00002	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***                               02/07/18
*** AERMET - VERSION 14134 ***   ***
***                               13:21:41

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PAGE 32

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

```

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

```

** CONC OF PM_10 IN
**
MICROGRAMS/M**3

```

Y-COORD (METERS)			X-COORD
(METERS)	397411.79	397561.79	397711.79
3871011.46	0.00207	0.00176	0.00150
3870861.46	0.00213	0.00177	0.00150
3870711.46	0.00213	0.00175	0.00146
3870561.46	0.00208	0.00170	0.00141
3870411.46	0.00200	0.00163	0.00136
3870261.46	0.00194	0.00159	0.00133
3870111.46	0.00193	0.00159	0.00134
3869961.46	0.00194	0.00161	0.00136
3869811.46	0.00181	0.00152	0.00130
3869661.46	0.00148	0.00128	0.00112
3869511.46	0.00106	0.00095	0.00086
3869361.46	0.00069	0.00066	0.00062
3869211.46	0.00042	0.00043	0.00042
3869061.46	0.00023	0.00026	0.00027
3868911.46	0.00012	0.00014	0.00017
3868761.46	0.00006	0.00008	0.00009
3868611.46	0.00003	0.00004	0.00005
3868461.46	0.00002	0.00002	0.00003
3868311.46	0.00001	0.00001	0.00002
3868161.46	0.00001	0.00001	0.00001
3868011.46	0.00001	0.00001	0.00001

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
 *** AERMET - VERSION 14134 *** ***
 *** 13:21:41

PAGE 33

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

				CONC	
				CONC	X-
X-COORD (M)	Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	
				0.00024	
395320.74	3868626.18			0.00024	
		395370.74	3868626.18	0.00024	
395420.74	3868626.18			0.00024	
		395470.74	3868626.18	0.00025	
395520.74	3868626.18			0.00026	
		395570.74	3868626.18	0.00027	
395620.74	3868626.18			0.00028	
		395670.74	3868626.18	0.00030	
395720.74	3868626.18			0.00031	
		395770.74	3868626.18	0.00032	
395820.74	3868626.18			0.00032	
		395270.74	3868676.18	0.00026	
395320.74	3868676.18			0.00026	
		395370.74	3868676.18	0.00026	
395420.74	3868676.18			0.00026	
		395470.74	3868676.18	0.00027	
395520.74	3868676.18			0.00027	
		395570.74	3868676.18	0.00029	
395620.74	3868676.18			0.00030	
		395670.74	3868676.18	0.00032	
395720.74	3868676.18			0.00033	
		395770.74	3868676.18	0.00034	
395820.74	3868676.18			0.00035	
		395270.74	3868726.18	0.00028	
395320.74	3868726.18			0.00028	
		395370.74	3868726.18	0.00028	
395420.74	3868726.18			0.00028	
		395470.74	3868726.18	0.00029	
395520.74	3868726.18			0.00029	
		395570.74	3868726.18	0.00031	
395620.74	3868726.18			0.00032	

	395670.74	3868726.18	0.00034
395720.74	3868726.18	0.00035	
	395770.74	3868726.18	0.00037
395820.74	3868726.18	0.00037	
	395270.74	3868776.18	0.00031
395320.74	3868776.18	0.00031	
	395370.74	3868776.18	0.00031
395420.74	3868776.18	0.00031	
	395470.74	3868776.18	0.00031
395520.74	3868776.18	0.00032	
	395570.74	3868776.18	0.00033
395620.74	3868776.18	0.00034	
	395670.74	3868776.18	0.00036
395720.74	3868776.18	0.00038	
	395770.74	3868776.18	0.00039
395820.74	3868776.18	0.00040	
	395270.74	3868826.18	0.00034
395320.74	3868826.18	0.00034	
	395370.74	3868826.18	0.00034
395420.74	3868826.18	0.00034	
	395470.74	3868826.18	0.00034
395520.74	3868826.18	0.00035	
	395570.74	3868826.18	0.00036
395620.74	3868826.18	0.00037	
	395670.74	3868826.18	0.00039
395720.74	3868826.18	0.00041	
	395770.74	3868826.18	0.00042
395820.74	3868826.18	0.00043	
	395270.74	3868876.18	0.00038
395320.74	3868876.18	0.00038	
	395370.74	3868876.18	0.00038
395420.74	3868876.18	0.00038	
	395470.74	3868876.18	0.00038
395520.74	3868876.18	0.00038	
	395570.74	3868876.18	0.00039
395620.74	3868876.18	0.00040	
	395670.74	3868876.18	0.00042
395720.74	3868876.18	0.00044	
	395770.74	3868876.18	0.00046
395820.74	3868876.18	0.00047	
	395270.74	3868926.18	0.00041
395320.74	3868926.18	0.00042	
	395370.74	3868926.18	0.00042
395420.74	3868926.18	0.00042	
	395470.74	3868926.18	0.00042
395520.74	3868926.18	0.00042	
	395570.74	3868926.18	0.00043
395620.74	3868926.18	0.00044	

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*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 34

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF PM_10 IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
395670.74	3868926.18	0.00046	
395720.74	3868926.18	0.00048	
395770.74	3868926.18	0.00050	
395820.74	3868926.18	0.00051	
395270.74	3868976.18	0.00046	
395320.74	3868976.18	0.00047	
395370.74	3868976.18	0.00047	
395420.74	3868976.18	0.00047	
395470.74	3868976.18	0.00047	
395520.74	3868976.18	0.00047	
395570.74	3868976.18	0.00048	
395620.74	3868976.18	0.00049	
395670.74	3868976.18	0.00051	
395720.74	3868976.18	0.00053	
395770.74	3868976.18	0.00055	
395820.74	3868976.18	0.00056	
395270.74	3869026.18	0.00050	
395320.74	3869026.18	0.00052	
395370.74	3869026.18	0.00053	
395420.74	3869026.18	0.00053	
395470.74	3869026.18	0.00053	
395520.74	3869026.18	0.00053	
395570.74	3869026.18	0.00053	
395620.74	3869026.18	0.00054	
395670.74	3869026.18	0.00056	
395720.74	3869026.18	0.00059	
395770.74	3869026.18	0.00061	
395820.74	3869026.18	0.00063	
395270.74	3869076.18	0.00056	
395320.74	3869076.18	0.00058	
395370.74	3869076.18	0.00059	
395420.74	3869076.18	0.00060	

	395470.74	3869076.18	0.00060
395520.74	3869076.18	0.00060	
	395570.74	3869076.18	0.00061
395620.74	3869076.18	0.00061	
	395670.74	3869076.18	0.00063
395720.74	3869076.18	0.00066	
	395770.74	3869076.18	0.00068
395820.74	3869076.18	0.00070	
	395270.74	3869126.18	0.00062
395320.74	3869126.18	0.00065	
	395370.74	3869126.18	0.00067
395420.74	3869126.18	0.00068	
	395470.74	3869126.18	0.00069
395520.74	3869126.18	0.00069	
	395570.74	3869126.18	0.00069
395620.74	3869126.18	0.00070	
	395670.74	3869126.18	0.00072
395720.74	3869126.18	0.00074	
	395770.74	3869126.18	0.00077
395820.74	3869126.18	0.00079	
	395270.74	3869176.18	0.00069
395320.74	3869176.18	0.00072	
	395370.74	3869176.18	0.00075
395420.74	3869176.18	0.00078	
	395470.74	3869176.18	0.00079
395520.74	3869176.18	0.00080	
	395570.74	3869176.18	0.00080
395620.74	3869176.18	0.00081	
	395670.74	3869176.18	0.00082
395720.74	3869176.18	0.00085	
	395770.74	3869176.18	0.00088
395820.74	3869176.18	0.00090	
	395270.74	3869226.18	0.00076
395320.74	3869226.18	0.00081	
	395370.74	3869226.18	0.00085
395420.74	3869226.18	0.00089	
	395470.74	3869226.18	0.00092
395520.74	3869226.18	0.00093	
	395570.74	3869226.18	0.00094
395620.74	3869226.18	0.00094	
	395670.74	3869226.18	0.00095
395720.74	3869226.18	0.00098	
	395770.74	3869226.18	0.00101
395820.74	3869226.18	0.00104	
	395270.74	3869276.18	0.00086
395320.74	3869276.18	0.00091	
	395370.74	3869276.18	0.00097
395420.74	3869276.18	0.00102	

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*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF PM_10	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
395470.74	3869276.18	0.00106		
395520.74	3869276.18	0.00109		
395570.74	3869276.18	0.00111		
395620.74	3869276.18	0.00112		
395670.74	3869276.18	0.00113		
395720.74	3869276.18	0.00115		
395770.74	3869276.18	0.00119		
395820.74	3869276.18	0.00122		
395270.74	3869326.18	0.00097		
395320.74	3869326.18	0.00103		
395370.74	3869326.18	0.00110		
395420.74	3869326.18	0.00117		
395470.74	3869326.18	0.00124		
395520.74	3869326.18	0.00129		
395570.74	3869326.18	0.00132		
395620.74	3869326.18	0.00134		
395670.74	3869326.18	0.00135		
395720.74	3869326.18	0.00138		
395770.74	3869326.18	0.00141		
395820.74	3869326.18	0.00145		
395270.74	3869376.18	0.00109		
395320.74	3869376.18	0.00117		
395370.74	3869376.18	0.00126		
395420.74	3869376.18	0.00135		
395470.74	3869376.18	0.00145		
395520.74	3869376.18	0.00153		
395570.74	3869376.18	0.00160		
395620.74	3869376.18	0.00163		
395670.74	3869376.18	0.00165		
395720.74	3869376.18	0.00168		
395770.74	3869376.18	0.00171		
395820.74	3869376.18	0.00176		

	395270.74	3869426.18	0.00124
395320.74	3869426.18	0.00134	
	395370.74	3869426.18	0.00145
395420.74	3869426.18	0.00158	
	395470.74	3869426.18	0.00171
395520.74	3869426.18	0.00183	
	395570.74	3869426.18	0.00194
395620.74	3869426.18	0.00202	
	395670.74	3869426.18	0.00206
395720.74	3869426.18	0.00209	
	395770.74	3869426.18	0.00213
395820.74	3869426.18	0.00218	
	395270.74	3869476.18	0.00141
395320.74	3869476.18	0.00154	
	395370.74	3869476.18	0.00169
395420.74	3869476.18	0.00184	
	395470.74	3869476.18	0.00203
395520.74	3869476.18	0.00221	
	395570.74	3869476.18	0.00238
395620.74	3869476.18	0.00253	
	395670.74	3869476.18	0.00262
395720.74	3869476.18	0.00267	
	395770.74	3869476.18	0.00272
395820.74	3869476.18	0.00277	
	395270.74	3869526.18	0.00160
395320.74	3869526.18	0.00177	
	395370.74	3869526.18	0.00196
395420.74	3869526.18	0.00217	
	395470.74	3869526.18	0.00242
395520.74	3869526.18	0.00268	
	395570.74	3869526.18	0.00295
395620.74	3869526.18	0.00321	
	395670.74	3869526.18	0.00339
395720.74	3869526.18	0.00350	
	395770.74	3869526.18	0.00358
395820.74	3869526.18	0.00364	
	395270.74	3869576.18	0.00177
395320.74	3869576.18	0.00200	
	395370.74	3869576.18	0.00226
395420.74	3869576.18	0.00255	
	395470.74	3869576.18	0.00290
395520.74	3869576.18	0.00328	
	395570.74	3869576.18	0.00369
395620.74	3869576.18	0.00411	
	395670.74	3869576.18	0.00449
395720.74	3869576.18	0.00474	
	395770.74	3869576.18	0.00489
395820.74	3869576.18	0.00498	

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 *** AERMET - VERSION 14134 *** ***
 *** 13:21:41

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3

** CONC OF PM_10 IN
 **

X-COORD (M)	Y-COORD (M)	CONC	X-
395270.74	3869626.18	0.00193	
395320.74	3869626.18	0.00222	
395370.74	3869626.18	0.00256	
395420.74	3869626.18	0.00296	
395470.74	3869626.18	0.00343	
395520.74	3869626.18	0.00400	
395570.74	3869626.18	0.00463	
395620.74	3869626.18	0.00533	
395670.74	3869626.18	0.00607	
395720.74	3869626.18	0.00664	
395770.74	3869626.18	0.00699	
395820.74	3869626.18	0.00717	
395270.74	3869676.18	0.00202	
395320.74	3869676.18	0.00238	
395370.74	3869676.18	0.00282	
395420.74	3869676.18	0.00336	
395470.74	3869676.18	0.00401	
395520.74	3869676.18	0.00482	
395570.74	3869676.18	0.00579	
395620.74	3869676.18	0.00696	
395670.74	3869676.18	0.00829	
395720.74	3869676.18	0.00960	
395770.74	3869676.18	0.01056	
395820.74	3869676.18	0.01104	
395270.74	3869726.18	0.00201	
395320.74	3869726.18	0.00242	
395370.74	3869726.18	0.00295	
395420.74	3869726.18	0.00362	
395470.74	3869726.18	0.00448	
395520.74	3869726.18	0.00560	
395570.74	3869726.18	0.00705	
395620.74	3869726.18	0.00894	

	395670.74	3869726.18	0.01135
395720.74	3869726.18	0.01427	
	395770.74	3869726.18	0.01698
395820.74	3869726.18	0.01867	
	395270.74	3869776.18	0.00189
395320.74	3869776.18	0.00230	
	395370.74	3869776.18	0.00287
395420.74	3869776.18	0.00362	
	395470.74	3869776.18	0.00464
395520.74	3869776.18	0.00604	
	395570.74	3869776.18	0.00803
395620.74	3869776.18	0.01087	
	395670.74	3869776.18	0.01503
395720.74	3869776.18	0.02113	
	395770.74	3869776.18	0.02911
395820.74	3869776.18	0.03633	
	395270.74	3869826.18	0.00168
395320.74	3869826.18	0.00206	
	395370.74	3869826.18	0.00259
395420.74	3869826.18	0.00331	
	395470.74	3869826.18	0.00433
395520.74	3869826.18	0.00581	
	395570.74	3869826.18	0.00809
395620.74	3869826.18	0.01170	
	395670.74	3869826.18	0.01774
395720.74	3869826.18	0.02858	
	395770.74	3869826.18	0.04921
395820.74	3869826.18	0.08459	
	395270.74	3869876.18	0.00143
395320.74	3869876.18	0.00175	
	395370.74	3869876.18	0.00217
395420.74	3869876.18	0.00277	
	395470.74	3869876.18	0.00364
395520.74	3869876.18	0.00490	
	395570.74	3869876.18	0.00689
395620.74	3869876.18	0.01032	
	395670.74	3869876.18	0.01661
395720.74	3869876.18	0.02966	
	395770.74	3869876.18	0.06274
395820.74	3869876.18	0.17903	
	395270.74	3869926.18	0.00118
395320.74	3869926.18	0.00143	
	395370.74	3869926.18	0.00175
395420.74	3869926.18	0.00219	
	395470.74	3869926.18	0.00284
395520.74	3869926.18	0.00375	
	395570.74	3869926.18	0.00517
395620.74	3869926.18	0.00754	

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*** AERMET - VERSION 14134 ***      ***
***      13:21:41

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PAGE 37

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S):      AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF PM_10	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
395670.74	3869926.18	0.01205		
395720.74	3869926.18	0.02155		
395770.74	3869926.18	0.04649		
395820.74	3869926.18	0.14820		
395270.74	3869976.18	0.00096		
395320.74	3869976.18	0.00115		
395370.74	3869976.18	0.00140		
395420.74	3869976.18	0.00172		
395470.74	3869976.18	0.00220		
395520.74	3869976.18	0.00286		
395570.74	3869976.18	0.00387		
395620.74	3869976.18	0.00553		
395670.74	3869976.18	0.00850		
395720.74	3869976.18	0.01466		
395770.74	3869976.18	0.02909		
395820.74	3869976.18	0.06809		
395870.74	3869976.18	0.25190		
395920.74	3869976.18	0.95042		
395970.74	3869976.18	0.73734		
396020.74	3869976.18	0.35565		
396070.74	3869976.18	0.18648		
396120.74	3869976.18	0.11007		
396170.74	3869976.18	0.07144		
396220.74	3869976.18	0.04972		
396270.74	3869976.18	0.03644		
396320.74	3869976.18	0.02780		
396370.74	3869976.18	0.02188		
396420.74	3869976.18	0.01766		
396470.74	3869976.18	0.01455		
396520.74	3869976.18	0.01219		
396570.74	3869976.18	0.01036		
396620.74	3869976.18	0.00891		

	396668.32	3869988.26	0.00783
396718.32	3869988.26	0.00686	
	396768.32	3869988.26	0.00606
396818.32	3869988.26	0.00540	
	396868.32	3869993.09	0.00484
396918.32	3869993.09	0.00436	
	396968.32	3869993.09	0.00395
397018.32	3869993.09	0.00359	
	397068.32	3869993.09	0.00328
397118.32	3869993.09	0.00301	
	397168.32	3869993.09	0.00278
397218.32	3869993.09	0.00257	
	397268.32	3869993.09	0.00238
395270.74	3870026.18	0.00080	
	395320.74	3870026.18	0.00095
395370.74	3870026.18	0.00115	
	395420.74	3870026.18	0.00143
395470.74	3870026.18	0.00181	
	395520.74	3870026.18	0.00239
395570.74	3870026.18	0.00326	
	395620.74	3870026.18	0.00466
395670.74	3870026.18	0.00706	
	395720.74	3870026.18	0.01135
395770.74	3870026.18	0.01922	
	395820.74	3870026.18	0.03346
395870.74	3870026.18	0.07744	
	395920.74	3870026.18	0.22675
395970.74	3870026.18	0.32493	
	396020.74	3870026.18	0.25710
396070.74	3870026.18	0.16877	
	396120.74	3870026.18	0.10929
396170.74	3870026.18	0.07345	
	396220.74	3870026.18	0.05171
396270.74	3870026.18	0.03797	
	396320.74	3870026.18	0.02890
396370.74	3870026.18	0.02267	
	396420.74	3870026.18	0.01823
396470.74	3870026.18	0.01496	
	396520.74	3870026.18	0.01249
396570.74	3870026.18	0.01059	
	396620.74	3870026.18	0.00908
396670.74	3870026.18	0.00788	
	396720.74	3870026.18	0.00689
396770.74	3870026.18	0.00608	
	396820.74	3870026.18	0.00541
396870.74	3870026.18	0.00484	
	396920.74	3870026.18	0.00436
396970.74	3870026.18	0.00395	

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*** AERMET - VERSION 14134 ***    ***
***          13:21:41

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PAGE 38
*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      AREA1

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*** DISCRETE CARTESIAN

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RECEPTOR POINTS ***

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                ** 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	
	397020.74	3870026.18	0.00359	
397070.74	3870026.18	0.00328		
	397120.74	3870026.18	0.00301	
397170.74	3870026.18	0.00277		
	397220.74	3870026.18	0.00256	
397270.74	3870026.18	0.00237		
	395270.74	3870076.18	0.00070	
395320.74	3870076.18	0.00084		
	395370.74	3870076.18	0.00103	
395420.74	3870076.18	0.00129		
	395470.74	3870076.18	0.00166	
395520.74	3870076.18	0.00219		
	395570.74	3870076.18	0.00297	
395620.74	3870076.18	0.00420		
	395670.74	3870076.18	0.00600	
395720.74	3870076.18	0.00861		
	395770.74	3870076.18	0.01228	
395820.74	3870076.18	0.01864		
	395870.74	3870076.18	0.03636	
395920.74	3870076.18	0.08402		
	395970.74	3870076.18	0.14111	
396020.74	3870076.18	0.15443		
	396070.74	3870076.18	0.12926	
396120.74	3870076.18	0.09675		
	396170.74	3870076.18	0.07030	
396220.74	3870076.18	0.05144		
	396270.74	3870076.18	0.03847	
396320.74	3870076.18	0.02951		
	396370.74	3870076.18	0.02319	
396420.74	3870076.18	0.01864		
	396470.74	3870076.18	0.01527	
396520.74	3870076.18	0.01272		

	396570.74	3870076.18	0.01075
396620.74	3870076.18	0.00920	
	396670.74	3870076.18	0.00797
396720.74	3870076.18	0.00696	
	396770.74	3870076.18	0.00613
396820.74	3870076.18	0.00545	
	396870.74	3870076.18	0.00487
396920.74	3870076.18	0.00438	
	396970.74	3870076.18	0.00396
397020.74	3870076.18	0.00360	
	397070.74	3870076.18	0.00328
397120.74	3870076.18	0.00301	
	397170.74	3870076.18	0.00277
397220.74	3870076.18	0.00256	
	397270.74	3870076.18	0.00237
395270.74	3870126.18	0.00066	
	395320.74	3870126.18	0.00080
395370.74	3870126.18	0.00099	
	395420.74	3870126.18	0.00124
395470.74	3870126.18	0.00160	
	395520.74	3870126.18	0.00209
395570.74	3870126.18	0.00275	
	395620.74	3870126.18	0.00364
395670.74	3870126.18	0.00479	
	395720.74	3870126.18	0.00628
395770.74	3870126.18	0.00822	
	395820.74	3870126.18	0.01165
395870.74	3870126.18	0.02044	
	395920.74	3870126.18	0.04077
395970.74	3870126.18	0.06882	
	396020.74	3870126.18	0.08862
396070.74	3870126.18	0.08927	
	396120.74	3870126.18	0.07746
396170.74	3870126.18	0.06225	
	396220.74	3870126.18	0.04852
396270.74	3870126.18	0.03766	
	396320.74	3870126.18	0.02949
396370.74	3870126.18	0.02343	
	396420.74	3870126.18	0.01893
396470.74	3870126.18	0.01553	
	396520.74	3870126.18	0.01294
396570.74	3870126.18	0.01093	
	396620.74	3870126.18	0.00934
396670.74	3870126.18	0.00806	
	396720.74	3870126.18	0.00703
396770.74	3870126.18	0.00619	
	396820.74	3870126.18	0.00549
396870.74	3870126.18	0.00490	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***    ***
***      13:21:41

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PAGE 39

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL    ***
INCLUDING SOURCE(S): AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF PM_10	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396920.74	3870126.18	0.00440		
396970.74	3870126.18	0.00397		
397020.74	3870126.18	0.00361		
397070.74	3870126.18	0.00329		
397120.74	3870126.18	0.00301		
397170.74	3870126.18	0.00277		
397220.74	3870126.18	0.00255		
397270.74	3870126.18	0.00236		
395270.74	3870176.18	0.00065		
395320.74	3870176.18	0.00080		
395370.74	3870176.18	0.00099		
395420.74	3870176.18	0.00123		
395470.74	3870176.18	0.00154		
395520.74	3870176.18	0.00194		
395570.74	3870176.18	0.00244		
395620.74	3870176.18	0.00303		
395670.74	3870176.18	0.00372		
395720.74	3870176.18	0.00460		
395770.74	3870176.18	0.00582		
395820.74	3870176.18	0.00806		
395870.74	3870176.18	0.01297		
395920.74	3870176.18	0.02325		
395970.74	3870176.18	0.03780		
396020.74	3870176.18	0.05178		
396070.74	3870176.18	0.05908		
396120.74	3870176.18	0.05787		
396170.74	3870176.18	0.05143		
396220.74	3870176.18	0.04319		
396270.74	3870176.18	0.03530		
396320.74	3870176.18	0.02859		
396370.74	3870176.18	0.02321		
396420.74	3870176.18	0.01898		

	396470.74	3870176.18	0.01569
396520.74	3870176.18	0.01312	
	396570.74	3870176.18	0.01109
396620.74	3870176.18	0.00948	
	396670.74	3870176.18	0.00818
396720.74	3870176.18	0.00713	
	396770.74	3870176.18	0.00626
396820.74	3870176.18	0.00554	
	396870.74	3870176.18	0.00494
396920.74	3870176.18	0.00443	
	396970.74	3870176.18	0.00400
397020.74	3870176.18	0.00362	
	397070.74	3870176.18	0.00330
397120.74	3870176.18	0.00302	
	397170.74	3870176.18	0.00277
397220.74	3870176.18	0.00256	
	397270.74	3870176.18	0.00236
395270.74	3870226.18	0.00066	
	395320.74	3870226.18	0.00080
395370.74	3870226.18	0.00097	
	395420.74	3870226.18	0.00119
395470.74	3870226.18	0.00144	
	395520.74	3870226.18	0.00173
395570.74	3870226.18	0.00208	
	395620.74	3870226.18	0.00245
395670.74	3870226.18	0.00288	
	395720.74	3870226.18	0.00343
395770.74	3870226.18	0.00434	
	395820.74	3870226.18	0.00590
395870.74	3870226.18	0.00889	
	395920.74	3870226.18	0.01469
395970.74	3870226.18	0.02286	
	396020.74	3870226.18	0.03187
396070.74	3870226.18	0.03886	
	396120.74	3870226.18	0.04171
396170.74	3870226.18	0.04041	
	396220.74	3870226.18	0.03654
396270.74	3870226.18	0.03163	
	396320.74	3870226.18	0.02674
396370.74	3870226.18	0.02236	
	396420.74	3870226.18	0.01867
396470.74	3870226.18	0.01564	
	396520.74	3870226.18	0.01319
396570.74	3870226.18	0.01120	
	396620.74	3870226.18	0.00960
396670.74	3870226.18	0.00830	
	396720.74	3870226.18	0.00723
396770.74	3870226.18	0.00635	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 40

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

 *** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

 ** CONC OF PM_10 IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-
396820.74	3870226.18	0.00562	
396870.74	3870226.18	0.00500	
396920.74	3870226.18	0.00448	
396970.74	3870226.18	0.00404	
397020.74	3870226.18	0.00366	
397070.74	3870226.18	0.00333	
397120.74	3870226.18	0.00304	
397170.74	3870226.18	0.00279	
397220.74	3870226.18	0.00257	
397270.74	3870226.18	0.00237	
395270.74	3870276.18	0.00067	
395320.74	3870276.18	0.00079	
395370.74	3870276.18	0.00094	
395420.74	3870276.18	0.00111	
395470.74	3870276.18	0.00130	
395520.74	3870276.18	0.00150	
395570.74	3870276.18	0.00172	
395620.74	3870276.18	0.00197	
395670.74	3870276.18	0.00227	
395720.74	3870276.18	0.00267	
395770.74	3870276.18	0.00336	
395820.74	3870276.18	0.00448	
395870.74	3870276.18	0.00645	
395920.74	3870276.18	0.00974	
395970.74	3870276.18	0.01488	
396020.74	3870276.18	0.02068	
396070.74	3870276.18	0.02606	
396120.74	3870276.18	0.02973	
396170.74	3870276.18	0.03082	
396220.74	3870276.18	0.02974	
396270.74	3870276.18	0.02725	
396320.74	3870276.18	0.02412	

	396370.74	3870276.18	0.02091
396420.74	3870276.18	0.01792	
	396470.74	3870276.18	0.01530
396520.74	3870276.18	0.01307	
	396570.74	3870276.18	0.01121
396620.74	3870276.18	0.00966	
	396670.74	3870276.18	0.00838
396720.74	3870276.18	0.00732	
	396770.74	3870276.18	0.00644
396820.74	3870276.18	0.00569	
	396870.74	3870276.18	0.00507
396920.74	3870276.18	0.00454	
	396970.74	3870276.18	0.00409
397020.74	3870276.18	0.00370	
	397070.74	3870276.18	0.00336
397120.74	3870276.18	0.00307	
	397170.74	3870276.18	0.00282
397220.74	3870276.18	0.00259	
	397270.74	3870276.18	0.00239
395270.74	3870326.18	0.00066	
	395320.74	3870326.18	0.00076
395370.74	3870326.18	0.00088	
	395420.74	3870326.18	0.00100
395470.74	3870326.18	0.00114	
	395520.74	3870326.18	0.00127
395570.74	3870326.18	0.00142	
	395620.74	3870326.18	0.00160
395670.74	3870326.18	0.00182	
	395720.74	3870326.18	0.00214
395770.74	3870326.18	0.00268	
	395820.74	3870326.18	0.00351
395870.74	3870326.18	0.00486	
	395920.74	3870326.18	0.00698
395970.74	3870326.18	0.01012	
	396020.74	3870326.18	0.01407
396070.74	3870326.18	0.01798	
	396120.74	3870326.18	0.02122
396170.74	3870326.18	0.02320	
	396220.74	3870326.18	0.02362
396270.74	3870326.18	0.02277	
	396320.74	3870326.18	0.02109
396370.74	3870326.18	0.01898	
	396420.74	3870326.18	0.01677
396470.74	3870326.18	0.01466	
	396520.74	3870326.18	0.01274
396570.74	3870326.18	0.01107	
	396620.74	3870326.18	0.00963
396670.74	3870326.18	0.00841	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 41
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE PERIOD (43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

X-COORD (M)	Y-COORD (M)	CONC	X-
396720.74	3870326.18	0.00737	
396770.74	3870326.18	0.00650	
396820.74	3870326.18	0.00576	
396870.74	3870326.18	0.00514	
396920.74	3870326.18	0.00460	
396970.74	3870326.18	0.00414	
397020.74	3870326.18	0.00375	
397070.74	3870326.18	0.00341	
397120.74	3870326.18	0.00311	
397170.74	3870326.18	0.00285	
397220.74	3870326.18	0.00262	
397270.74	3870326.18	0.00242	
395270.74	3870376.18	0.00064	
395320.74	3870376.18	0.00072	
395370.74	3870376.18	0.00080	
395420.74	3870376.18	0.00089	
395470.74	3870376.18	0.00098	
395520.74	3870376.18	0.00107	
395570.74	3870376.18	0.00118	
395620.74	3870376.18	0.00131	
395670.74	3870376.18	0.00150	
395720.74	3870376.18	0.00177	
395770.74	3870376.18	0.00219	
395820.74	3870376.18	0.00282	
395870.74	3870376.18	0.00377	
395920.74	3870376.18	0.00521	
395970.74	3870376.18	0.00723	
396020.74	3870376.18	0.00997	
396070.74	3870376.18	0.01279	
396120.74	3870376.18	0.01541	
396170.74	3870376.18	0.01744	
396220.74	3870376.18	0.01851	

	396270.74	3870376.18	0.01864
396320.74	3870376.18	0.01798	
	396370.74	3870376.18	0.01679
396420.74	3870376.18	0.01531	
	396470.74	3870376.18	0.01373
396520.74	3870376.18	0.01219	
	396570.74	3870376.18	0.01076
396620.74	3870376.18	0.00947	
	396670.74	3870376.18	0.00835
396720.74	3870376.18	0.00737	
	396770.74	3870376.18	0.00653
396820.74	3870376.18	0.00581	
	396870.74	3870376.18	0.00519
396920.74	3870376.18	0.00466	
	396970.74	3870376.18	0.00420
397020.74	3870376.18	0.00380	
	397070.74	3870376.18	0.00345
397120.74	3870376.18	0.00315	
	397170.74	3870376.18	0.00289
397220.74	3870376.18	0.00265	
	397270.74	3870376.18	0.00245
395270.74	3870426.18	0.00060	
	395320.74	3870426.18	0.00066
395370.74	3870426.18	0.00072	
	395420.74	3870426.18	0.00078
395470.74	3870426.18	0.00084	
	395520.74	3870426.18	0.00091
395570.74	3870426.18	0.00099	
	395620.74	3870426.18	0.00110
395670.74	3870426.18	0.00126	
	395720.74	3870426.18	0.00148
395770.74	3870426.18	0.00180	
	395820.74	3870426.18	0.00230
395870.74	3870426.18	0.00300	
	395920.74	3870426.18	0.00401
395970.74	3870426.18	0.00541	
	396020.74	3870426.18	0.00723
396070.74	3870426.18	0.00936	
	396120.74	3870426.18	0.01140
396170.74	3870426.18	0.01316	
	396220.74	3870426.18	0.01444
396270.74	3870426.18	0.01506	
	396320.74	3870426.18	0.01506
396370.74	3870426.18	0.01455	
	396420.74	3870426.18	0.01368
396470.74	3870426.18	0.01260	
	396520.74	3870426.18	0.01144
396570.74	3870426.18	0.01028	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***   ***
***   13:21:41

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PAGE 42

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL   ***
                INCLUDING SOURCE(S):   AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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MICROGRAMS/M**3   ** CONC OF PM_10   IN
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X-COORD (M)	Y-COORD (M)	CONC	X-
396620.74	3870426.18	0.00919	
396670.74	3870426.18	0.00819	
396720.74	3870426.18	0.00730	
396770.74	3870426.18	0.00651	
396820.74	3870426.18	0.00582	
396870.74	3870426.18	0.00522	
396920.74	3870426.18	0.00469	
396970.74	3870426.18	0.00424	
397020.74	3870426.18	0.00384	
397070.74	3870426.18	0.00350	
397120.74	3870426.18	0.00319	
397170.74	3870426.18	0.00293	
397220.74	3870426.18	0.00269	
397270.74	3870426.18	0.00248	
395270.74	3870476.18	0.00055	
395320.74	3870476.18	0.00059	
395370.74	3870476.18	0.00063	
395420.74	3870476.18	0.00067	
395470.74	3870476.18	0.00072	
395520.74	3870476.18	0.00077	
395570.74	3870476.18	0.00085	
395620.74	3870476.18	0.00094	
395670.74	3870476.18	0.00107	
395720.74	3870476.18	0.00126	
395770.74	3870476.18	0.00152	
395820.74	3870476.18	0.00189	
395870.74	3870476.18	0.00241	
395920.74	3870476.18	0.00317	
395970.74	3870476.18	0.00416	
396020.74	3870476.18	0.00543	
396070.74	3870476.18	0.00699	
396120.74	3870476.18	0.00860	

	396170.74	3870476.18	0.01008
396220.74	3870476.18	0.01128	
	396270.74	3870476.18	0.01209
396320.74	3870476.18	0.01246	
	396370.74	3870476.18	0.01240
396420.74	3870476.18	0.01200	
	396470.74	3870476.18	0.01135
396520.74	3870476.18	0.01054	
	396570.74	3870476.18	0.00967
396620.74	3870476.18	0.00879	
	396670.74	3870476.18	0.00794
396720.74	3870476.18	0.00715	
	396770.74	3870476.18	0.00643
396820.74	3870476.18	0.00579	
	396870.74	3870476.18	0.00521
396920.74	3870476.18	0.00471	
	396970.74	3870476.18	0.00427
397020.74	3870476.18	0.00388	
	397070.74	3870476.18	0.00353
397120.74	3870476.18	0.00323	
	397170.74	3870476.18	0.00296
397220.74	3870476.18	0.00272	
	397270.74	3870476.18	0.00251
395270.74	3870526.18	0.00050	
	395320.74	3870526.18	0.00053
395370.74	3870526.18	0.00055	
	395420.74	3870526.18	0.00058
395470.74	3870526.18	0.00062	
	395520.74	3870526.18	0.00067
395570.74	3870526.18	0.00073	
	395620.74	3870526.18	0.00081
395670.74	3870526.18	0.00092	
	395720.74	3870526.18	0.00108
395770.74	3870526.18	0.00130	
	395820.74	3870526.18	0.00159
395870.74	3870526.18	0.00199	
	395920.74	3870526.18	0.00256
395970.74	3870526.18	0.00329	
	396020.74	3870526.18	0.00422
396070.74	3870526.18	0.00533	
	396120.74	3870526.18	0.00659
396170.74	3870526.18	0.00782	
	396220.74	3870526.18	0.00888
396270.74	3870526.18	0.00971	
	396320.74	3870526.18	0.01024
396370.74	3870526.18	0.01046	
	396420.74	3870526.18	0.01038
396470.74	3870526.18	0.01006	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 43

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*** MODELOPTs:    RegDEFAULT  CONC  ELEV  RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL   ***
                INCLUDING SOURCE(S):    AREA1
,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF PM_10	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
396520.74	3870526.18	0.00956		
396570.74	3870526.18	0.00895		
396620.74	3870526.18	0.00828		
396670.74	3870526.18	0.00759		
396720.74	3870526.18	0.00692		
396770.74	3870526.18	0.00629		
396820.74	3870526.18	0.00570		
396870.74	3870526.18	0.00517		
396920.74	3870526.18	0.00470		
396970.74	3870526.18	0.00427		
397020.74	3870526.18	0.00389		
397070.74	3870526.18	0.00355		
397120.74	3870526.18	0.00326		
397170.74	3870526.18	0.00299		
397220.74	3870526.18	0.00275		
397270.74	3870526.18	0.00254		
395270.74	3870576.18	0.00045		
395320.74	3870576.18	0.00047		
395370.74	3870576.18	0.00049		
395420.74	3870576.18	0.00051		
395470.74	3870576.18	0.00054		
395520.74	3870576.18	0.00058		
395570.74	3870576.18	0.00064		
395620.74	3870576.18	0.00071		
395670.74	3870576.18	0.00081		
395720.74	3870576.18	0.00094		
395770.74	3870576.18	0.00112		
395820.74	3870576.18	0.00136		
395870.74	3870576.18	0.00167		
395920.74	3870576.18	0.00209		
395970.74	3870576.18	0.00265		
396020.74	3870576.18	0.00335		

	396070.74	3870576.18	0.00418
396120.74	3870576.18	0.00512	
	396170.74	3870576.18	0.00610
396220.74	3870576.18	0.00702	
	396270.74	3870576.18	0.00783
396320.74	3870576.18	0.00841	
	396370.74	3870576.18	0.00877
396420.74	3870576.18	0.00890	
	396470.74	3870576.18	0.00881
396520.74	3870576.18	0.00855	
	396570.74	3870576.18	0.00816
396620.74	3870576.18	0.00769	
	396670.74	3870576.18	0.00716
396720.74	3870576.18	0.00662	
	396770.74	3870576.18	0.00608
396820.74	3870576.18	0.00557	
	396870.74	3870576.18	0.00509
396920.74	3870576.18	0.00465	
	396970.74	3870576.18	0.00425
397020.74	3870576.18	0.00389	
	397070.74	3870576.18	0.00356
397120.74	3870576.18	0.00327	
	397170.74	3870576.18	0.00301
397220.74	3870576.18	0.00278	
	397270.74	3870576.18	0.00257
395270.74	3870626.18	0.00040	
	395320.74	3870626.18	0.00041
395370.74	3870626.18	0.00043	
	395420.74	3870626.18	0.00045
395470.74	3870626.18	0.00048	
	395520.74	3870626.18	0.00052
395570.74	3870626.18	0.00057	
	395620.74	3870626.18	0.00063
395670.74	3870626.18	0.00071	
	395720.74	3870626.18	0.00082
395770.74	3870626.18	0.00097	
	395820.74	3870626.18	0.00117
395870.74	3870626.18	0.00142	
	395920.74	3870626.18	0.00174
395970.74	3870626.18	0.00217	
	396020.74	3870626.18	0.00270
396070.74	3870626.18	0.00335	
	396120.74	3870626.18	0.00408
396170.74	3870626.18	0.00485	
	396220.74	3870626.18	0.00562
396270.74	3870626.18	0.00631	
	396320.74	3870626.18	0.00690
396370.74	3870626.18	0.00732	

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*** AERMET - VERSION 14134 ***      ***
***      13:21:41

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PAGE 44

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE PERIOD ( 43872 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL      ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3			** CONC OF PM_10	IN
			**	
X-COORD (M)	Y-COORD (M)	CONC		X-
COORD (M)	Y-COORD (M)	CONC		
396420.74	3870626.18	0.00757		
396470.74	3870626.18	0.00765		
396520.74	3870626.18	0.00757		
396570.74	3870626.18	0.00736		
396620.74	3870626.18	0.00705		
396670.74	3870626.18	0.00667		
396720.74	3870626.18	0.00625		
396770.74	3870626.18	0.00582		
396820.74	3870626.18	0.00538		
396870.74	3870626.18	0.00497		
396920.74	3870626.18	0.00457		
396970.74	3870626.18	0.00420		
397020.74	3870626.18	0.00386		
397070.74	3870626.18	0.00355		
397120.74	3870626.18	0.00327		
397170.74	3870626.18	0.00302		
397220.74	3870626.18	0.00279		
397270.74	3870626.18	0.00258		

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
 *** AERMET - VERSION 14134 *** ***
 *** 13:21:41

PAGE 45

*** MODELOPTS: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

Y-COORD (METERS) (METERS)	X-COORD	CONC	CONC	CONC
395011.79	394711.79	2.27244 (11053108)	1.77956 (11053108)	1.19779
	395161.79	1.27855 (11053008)	1.60509 (11053008)	
		394861.79	2.57630 (11053108)	2.00701
		395311.79	1.90432 (11053008)	
			2.92779 (11053108)	3.00426
			1.89467 (11053008)	
			2.90126 (12052108)	3.30139
			3.00443 (11053108)	
			2.18984 (12052108)	3.17432
			5.13580 (11053108)	
			1.17585 (11050413)	1.88567
			5.69185 (12052108)	
			1.23499 (10051910)	1.66198
			3.71925 (11050413)	
			3.58484 (11053107)	4.36107
			8.03531 (11053107)	
			4.83916 (11053107)	5.76795
			9.68146 (11053107)	
			4.05896 (13050607)	5.90885
			9.58657 (13050607)	
			4.08211 (13050607)	3.97117
			4.02776 (13050108)	
			1.65824 (13050108)	2.02233
			3.33105 (13050107)	
			1.26055 (13050108)	1.41684
			3.91414 (13050107)	
			1.01546 (13050115)	1.37361
			3.26293 (13050107)	

3868911.5 |	0.75529 (13050115)	0.98128 (13050107)	1.74325
(13050107)	2.36056 (13050107)	2.22882 (13050107)	
3868761.5 |	0.73639 (13050107)	1.26994 (13050107)	1.76355
(13050107)	1.84789 (13050107)	1.35733 (13050107)	
3868611.5 |	0.96438 (13050107)	1.35483 (13050107)	1.51648
(13050107)	1.28121 (13050107)	0.83118 (12050812)	
3868461.5 |	1.06825 (13050107)	1.24863 (13050107)	1.16180
(13050107)	0.82311 (13050107)	0.81035 (11050410)	
3868311.5 |	1.03911 (13050107)	1.03607 (13050107)	0.82506
(13050107)	0.61940 (11050410)	0.80845 (11050410)	
3868161.5 |	0.91744 (13050107)	0.79273 (13050107)	0.55039
(13050107)	0.65048 (11050410)	0.79908 (11050410)	
3868011.5 |	0.74929 (13050107)	0.57353 (13050107)	0.51292
(11050410)	0.66524 (11050410)	0.77884 (11050410)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 46

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

Y-COORD (METERS)			X-COORD
395761.79	395461.79	395611.79	396061.79

3871011.5 (10052509)	1.77746 (09051908)	1.89694 (09051908)	1.85304
3870861.5 (10052509)	2.98062 (09051907)	3.20684 (09051807)	
3870711.5 (10052509)	1.97742 (11053008)	2.62528 (09051908)	2.31617
3870561.5 (09051908)	3.84076 (09051907)	4.60639 (09051807)	
3870411.5 (09051908)	2.82225 (11053008)	3.53252 (09051908)	2.99305
3870261.5 (09051908)	5.21820 (09051907)	6.66784 (09051807)	
3870111.5 (11053008)	3.42306 (11053008)	4.42496 (09051908)	4.73677
3869961.5 (12052108)	7.79890 (09051907)	9.46490 (09051807)	
3869811.5 (13050107)	4.85322 (12050708)	6.85422 (11053008)	8.74241
3869661.5 (13050107)	12.85247 (09051907)	12.69161 (09051808)	
3869511.5 (12050913)	8.56010 (11053108)	9.81870 (12050708)	16.41420
3869361.5 (10051907)	25.12534 (09051907)	21.32899 (13052107)	
3869211.5 (10051907)	8.42527 (12052108)	19.19290 (11053108)	36.53376
3869061.5 (10051907)	69.88326 (09051807)	68.90769 (09050507)	
	3869961.5 (12052108)	23.61279 (11053107)	88.23429
	3869811.5 (13050107)	726.28305 (10052508)	
	3869661.5 (13050107)	81.13870 (12052807)	
	3869511.5 (12050913)	44.79826 (13050607)	76.87980
	3869361.5 (10051907)	357.72697 (11050307)	
	3869211.5 (10051907)	57.32939 (13050608)	
	3869061.5 (10051907)	16.23378 (13050107)	35.49539
		19.41168 (09051815)	
		14.06310 (13050107)	8.39731
		17.99025 (11050307)	
		6.72565 (13050107)	6.71373
		17.09349 (11050307)	
		2.68435 (13050107)	5.33930
		13.32857 (11050307)	
		1.85148 (11050410)	4.27681
		9.95175 (11050307)	

3868911.5 |	1.34362 (12050812)	1.65440 (11052508)	3.49815
(10051907)	3.62704 (10051907)	7.49057 (11050307)	
3868761.5 |	1.11405 (11050410)	1.63999 (11052508)	2.93614
(10051907)	2.89043 (10051907)	5.71259 (11050307)	
3868611.5 |	1.04255 (11050410)	1.62648 (11052508)	2.52637
(10051907)	2.39978 (10051907)	4.51683 (11050307)	
3868461.5 |	0.97745 (11050410)	1.60585 (11052508)	2.22735
(10051907)	2.05948 (10051907)	3.53958 (11050307)	
3868311.5 |	0.97914 (11052508)	1.57622 (11052508)	2.00699
(10051907)	1.81614 (10051907)	2.80154 (11050307)	
3868161.5 |	1.03116 (11052508)	1.54525 (11052508)	1.83490
(10051907)	1.63575 (10051907)	2.24248 (11050307)	
3868011.5 |	1.06687 (11052508)	1.50837 (11052508)	1.70266
(10051907)	1.50425 (11052508)	1.80380 (11050307)	

*** AERMOD - VERSION 16216r *** ** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 ***
*** 13:21:41

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

Y-COORD (METERS) (METERS)	X-COORD
396511.79	396211.79 396361.79 396811.79

3871011.5 |	3.25321 (09051807) 2.88679 (11052507) 2.56829
(13052107)	2.07704 (09050507) 3.20014 (09050507)
3870861.5 |	4.07738 (11052507) 3.16007 (13052107) 2.85211
(13052107)	4.08400 (09050507) 4.02057 (09050507)
3870711.5 |	5.21131 (11052507) 4.51617 (13052107) 5.35307
(09050507)	5.59450 (09050507) 3.40137 (09050507)
3870561.5 |	6.62854 (13052107) 7.17384 (09050507) 8.19339
(09050507)	4.63356 (09050507) 2.99684 (12050908)
3870411.5 |	10.05049 (13052107) 13.28455 (09050507) 6.62106
(09050507)	3.67662 (12052807) 4.19852 (12052807)
3870261.5 |	25.37083 (09050507) 10.06872 (09050507) 7.18688
(13051307)	5.91244 (12052807) 4.39122 (12052807)
3870111.5 |	21.10922 (13051307) 13.38018 (13051307) 7.02041
(12052807)	4.40474 (13051407) 2.91423 (13050609)
3869961.5 |	26.14421 (11050207) 14.58754 (11050207) 9.73677
(11050207)	7.06480 (11050207) 5.49520 (11050207)
3869811.5 |	20.32661 (13050608) 14.13844 (11050207) 10.62273
(11050207)	8.21553 (11050207) 6.62613 (11050207)
3869661.5 |	9.81706 (13050608) 9.89645 (13050608) 6.45877
(13050608)	3.65227 (13050608) 2.24048 (11050207)
3869511.5 |	6.17881 (12051612) 3.13327 (12051612) 4.14980
(13050608)	3.97508 (13050608) 3.07726 (13050608)
3869361.5 |	5.90925 (09051815) 2.93084 (12051612) 1.70008
(12051612)	1.83182 (13050608) 2.20728 (13050608)
3869211.5 |	4.78679 (09051815) 2.54136 (09051815) 1.71982
(12051612)	1.08621 (12051612) 0.86544 (13050608)
3869061.5 |	5.66113 (11050307) 2.84632 (09051815) 1.40268
(12051612)	1.14052 (12051612) 0.76063 (12051612)

3868911.5 |	6.44384 (11050307)	2.48401 (09051815)	1.57539
(09051815)	1.00814 (12051612)	0.81665 (12051612)	
3868761.5 |	6.63967 (11050307)	2.55503 (11050307)	1.67494
(09051815)	0.86675 (09051815)	0.76202 (12051612)	
3868611.5 |	6.42936 (11050307)	3.48265 (11050307)	1.52088
(09051815)	1.05721 (09051815)	0.64568 (12051612)	
3868461.5 |	5.89468 (11050307)	4.17460 (11050307)	1.34850
(11050307)	1.10248 (09051815)	0.65387 (09051815)	
3868311.5 |	5.26858 (11050307)	4.58840 (11050307)	1.97022
(11050307)	1.02611 (09051815)	0.75518 (09051815)	
3868161.5 |	4.60791 (11050307)	4.75804 (11050307)	2.57420
(11050307)	0.88247 (09051815)	0.78036 (09051815)	
3868011.5	3.98781 (11050307)	4.71720 (11050307)	3.08674
(11050307)	1.16360 (11050307)	0.73932 (09051815)	


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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 48

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

```

*** NETWORK ID: UCART1 ; NETWORK

TYPE: GRIDCART ***

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** CONC OF PM_10 IN
**
MICROGRAMS/M**3

```

Y-COORD (METERS)	X-COORD	CONC	SOURCE ID	CONC	SOURCE ID	CONC	SOURCE ID
397261.79	396961.79	3.10373	(09050507)	2.12873	(09050507)	2.20882	
	397411.79	2.05767	(12050908)	1.75048	(12050908)		
		2.61067	(09050507)	2.42928	(12050908)	2.16280	
		1.84816	(12052807)	2.23635	(12052807)		
		2.68518	(12050908)	2.23760	(12050908)	2.48228	
		2.77100	(12052807)	2.79531	(12052807)		
		2.85337	(12052807)	3.24688	(12052807)	3.23898	
		2.95522	(12052807)	2.53172	(12052807)		
		4.01047	(12052807)	3.43004	(12052807)	2.74440	
		2.10999	(12052807)	1.58049	(12052807)		
		3.06112	(12052807)	2.07260	(12052807)	1.63023	
		1.39897	(10051208)	1.27734	(10051208)		
		2.26990	(10051208)	1.82654	(10051208)	1.57885	
		1.45728	(09051810)	1.36403	(09051810)		
		4.51995	(11050207)	3.90614	(11050207)	3.49822	
		3.20185	(11050207)	2.96067	(11050207)		
		5.59206	(11050207)	4.90570	(11050207)	4.43175	
		4.07956	(11050207)	3.79149	(11050207)		
		2.40382	(11050207)	2.50908	(11050207)	2.58869	
		2.63773	(11050207)	2.65549	(11050207)		
		2.13047	(13050608)	1.43457	(09051812)	1.20709	
		1.02131	(09051812)	1.02885	(11050207)		
		2.12843	(13050608)	1.78421	(13050608)	1.39204	
		1.14799	(09051812)	1.03944	(09051812)		
		1.20869	(13050608)	1.35992	(13050608)	1.35252	
		1.21469	(13050608)	1.03282	(09051812)		
		0.46938	(09051812)	0.67701	(13050608)	0.87116	
		0.96695	(13050608)	0.96862	(13050608)		

3868911.5 |	0.56654 (12051612)	0.35173 (12051612)	0.43793
(09051812)	0.55199 (13050608)	0.67028 (13050608)	
3868761.5 |	0.61844 (12051612)	0.44240 (12051612)	0.28867
(12051612)	0.32494 (09051812)	0.42123 (09051812)	
3868611.5 |	0.60009 (12051612)	0.48884 (12051612)	0.35908
(12051612)	0.24313 (12051612)	0.24642 (09051812)	
3868461.5 |	0.53461 (12051612)	0.48873 (12051612)	0.40032
(12051612)	0.30056 (12051612)	0.20969 (12051612)	
3868311.5 |	0.44678 (12051612)	0.45232 (12051612)	0.40934
(12051612)	0.33756 (12051612)	0.25785 (12051612)	
3868161.5 |	0.50448 (09051815)	0.39518 (12051612)	0.39041
(12051612)	0.35147 (12051612)	0.29105 (12051612)	
3868011.5 |	0.56516 (09051815)	0.33275 (09051815)	0.35302
(12051612)	0.34342 (12051612)	0.30797 (12051612)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
 View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
 *** AERMET - VERSION 14134 *** ***
 *** 13:21:41

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK
 TYPE: GRIDCART ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
 **

Y-COORD	|		X-COORD
(METERS)			
(METERS)	|	397711.79	

3871011.5	|	1.74700	(12052807)
3870861.5	|	2.44562	(12052807)
3870711.5	|	2.62311	(12052807)
3870561.5	|	2.07633	(12052807)
3870411.5	|	1.33914	(10050308)
3870261.5	|	1.16882	(10051208)
3870111.5	|	1.28561	(09051810)
3869961.5	|	2.75863	(11050207)
3869811.5	|	3.54698	(11050207)
3869661.5	|	2.64550	(11050207)
3869511.5	|	1.16014	(11050207)
3869361.5	|	0.93633	(09051812)
3869211.5	|	0.98669	(09051812)
3869061.5	|	0.89874	(09051812)
3868911.5	|	0.73037	(13050608)
3868761.5	|	0.50979	(09051812)
3868611.5	|	0.32742	(09051812)
3868461.5	|	0.19160	(09051812)
3868311.5	|	0.18451	(12051612)
3868161.5	|	0.22590	(12051612)
3868011.5	|	0.25616	(12051612)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 50

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
395270.74	3868626.18	0.97060 (13050107)	
395320.74	3868626.18	0.84876 (12050812)	
395370.74	3868626.18	0.90576 (11050410)	
395420.74	3868626.18	0.99033 (11050410)	
395470.74	3868626.18	1.06011 (11050410)	
395520.74	3868626.18	1.10851 (11050410)	
395570.74	3868626.18	1.39402 (11052508)	
395620.74	3868626.18	1.68078 (11052508)	
395670.74	3868626.18	1.93832 (11052508)	
395720.74	3868626.18	2.28383 (10051907)	
395770.74	3868626.18	2.61009 (10051907)	
395820.74	3868626.18	2.74431 (10051907)	
395270.74	3868676.18	1.15765 (13050107)	
395320.74	3868676.18	0.95106 (13050107)	
395370.74	3868676.18	0.90816 (11050410)	
395420.74	3868676.18	1.00448 (11050410)	
395470.74	3868676.18	1.08582 (11050410)	
395520.74	3868676.18	1.14578 (11050410)	
395570.74	3868676.18	1.37806 (11052508)	
395620.74	3868676.18	1.68536 (11052508)	
395670.74	3868676.18	1.96909 (11052508)	
395720.74	3868676.18	2.37543 (10051907)	
395770.74	3868676.18	2.74205 (10051907)	
395820.74	3868676.18	2.90406 (10051907)	
395270.74	3868726.18	1.36982 (13050107)	
395320.74	3868726.18	1.15364 (13050107)	
395370.74	3868726.18	0.98709 (12050812)	
395420.74	3868726.18	1.01774 (11050410)	
395470.74	3868726.18	1.11256 (11050410)	
395520.74	3868726.18	1.18500 (11050410)	
395570.74	3868726.18	1.36574 (11052508)	
395620.74	3868726.18	1.69505 (11052508)	

	395670.74	3868726.18	2.00412	(11052508)
395720.74	3868726.18		2.47019	(10051907)
	395770.74	3868726.18	2.88876	(10051907)
395820.74	3868726.18		3.08518	(10051907)
	395270.74	3868776.18	1.60755	(13050107)
395320.74	3868776.18		1.38810	(13050107)
	395370.74	3868776.18	1.13394	(13050107)
395420.74	3868776.18		1.04866	(12050812)
	395470.74	3868776.18	1.13959	(11050410)
395520.74	3868776.18		1.22764	(11050410)
	395570.74	3868776.18	1.34902	(11052508)
395620.74	3868776.18		1.70627	(11052508)
	395670.74	3868776.18	2.04571	(11052508)
395720.74	3868776.18		2.57704	(10051907)
	395770.74	3868776.18	3.05532	(10051907)
395820.74	3868776.18		3.29145	(10051907)
	395270.74	3868826.18	1.86926	(13050107)
395320.74	3868826.18		1.65691	(13050107)
	395370.74	3868826.18	1.38961	(13050107)
395420.74	3868826.18		1.15899	(12050812)
	395470.74	3868826.18	1.16638	(11050410)
395520.74	3868826.18		1.27221	(11050410)
	395570.74	3868826.18	1.34882	(11050410)
395620.74	3868826.18		1.71693	(11052508)
	395670.74	3868826.18	2.09029	(11052508)
395720.74	3868826.18		2.69168	(10051907)
	395770.74	3868826.18	3.24016	(10051907)
395820.74	3868826.18		3.52686	(10051907)
	395270.74	3868876.18	2.15336	(13050107)
395320.74	3868876.18		1.95912	(13050107)
	395370.74	3868876.18	1.68984	(13050107)
395420.74	3868876.18		1.37254	(13050107)
	395470.74	3868876.18	1.23634	(12050812)
395520.74	3868876.18		1.31989	(11050410)
	395570.74	3868876.18	1.41514	(11050410)
395620.74	3868876.18		1.72751	(11052508)
	395670.74	3868876.18	2.14004	(11052508)
395720.74	3868876.18		2.81696	(10051907)
	395770.74	3868876.18	3.44711	(10051907)
395820.74	3868876.18		3.79345	(10051907)
	395270.74	3868926.18	2.44819	(13050107)
395320.74	3868926.18		2.29309	(13050107)
	395370.74	3868926.18	2.03700	(13050107)
395420.74	3868926.18		1.70462	(13050107)
	395470.74	3868926.18	1.37948	(12050812)
395520.74	3868926.18		1.37006	(11050410)
	395570.74	3868926.18	1.48872	(11050410)
395620.74	3868926.18		1.73893	(11052508)

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
-	-	-	-	-
395670.74	3868926.18	2.19229	(11052508)	
395720.74	3868926.18	2.94545	(10051907)	
395770.74	3868926.18	3.68142	(10051907)	
395820.74	3868926.18	4.09972	(10051907)	
395270.74	3868976.18	2.73799	(13050107)	
395320.74	3868976.18	2.65104	(13050107)	
395370.74	3868976.18	2.42971	(13050107)	
395420.74	3868976.18	2.09939	(13050107)	
395470.74	3868976.18	1.70112	(13050107)	
395520.74	3868976.18	1.48102	(12050812)	
395570.74	3868976.18	1.56621	(11050410)	
395620.74	3868976.18	1.74789	(11052508)	
395670.74	3868976.18	2.25609	(11052508)	
395720.74	3868976.18	3.09229	(10051907)	
395770.74	3868976.18	3.93732	(10051907)	
395820.74	3868976.18	4.45454	(10051907)	
395270.74	3869026.18	3.00554	(13050107)	
395320.74	3869026.18	3.01704	(13050107)	
395370.74	3869026.18	2.86343	(13050107)	
395420.74	3869026.18	2.56002	(13050107)	
395470.74	3869026.18	2.14504	(13050107)	
395520.74	3869026.18	1.67562	(12050812)	
395570.74	3869026.18	1.65168	(11050410)	
395620.74	3869026.18	1.78539	(11050410)	
395670.74	3869026.18	2.31725	(11052508)	
395720.74	3869026.18	3.23830	(10051907)	
395770.74	3869026.18	4.23248	(10051907)	
395820.74	3869026.18	4.86012	(10051907)	
395270.74	3869076.18	3.22988	(13050107)	
395320.74	3869076.18	3.36873	(13050107)	
395370.74	3869076.18	3.32588	(13050107)	
395420.74	3869076.18	3.08453	(13050107)	

395470.74	3869076.18	2.67463	(13050107)
395520.74	3869076.18	2.15138	(13050107)
395570.74	3869076.18	1.80565	(12050812)
395620.74	3869076.18	1.91663	(12050913)
395670.74	3869076.18	2.39070	(11052508)
395720.74	3869076.18	3.39654	(10051907)
395770.74	3869076.18	4.55937	(10051907)
395820.74	3869076.18	5.33049	(10051907)
395270.74	3869126.18	3.38529	(13050107)
395320.74	3869126.18	3.67958	(13050107)
395370.74	3869126.18	3.78968	(13050107)
395420.74	3869126.18	3.66606	(13050107)
395470.74	3869126.18	3.30748	(13050107)
395520.74	3869126.18	2.76720	(13050107)
395570.74	3869126.18	2.10989	(13050107)
395620.74	3869126.18	2.14471	(12050913)
395670.74	3869126.18	2.46138	(11052508)
395720.74	3869126.18	3.55277	(10051907)
395770.74	3869126.18	4.92544	(10051907)
395820.74	3869126.18	5.88335	(10051907)
395270.74	3869176.18	3.44062	(13050107)
395320.74	3869176.18	3.91697	(13050107)
395370.74	3869176.18	4.22020	(13050107)
395420.74	3869176.18	4.27812	(13050107)
395470.74	3869176.18	4.03571	(13050107)
395520.74	3869176.18	3.52514	(13050107)
395570.74	3869176.18	2.80610	(13050107)
395620.74	3869176.18	2.39592	(12050913)
395670.74	3869176.18	2.53796	(11052508)
395720.74	3869176.18	3.70813	(10051907)
395770.74	3869176.18	5.33599	(10051907)
395820.74	3869176.18	6.52611	(10051907)
395270.74	3869226.18	3.37198	(13050107)
395320.74	3869226.18	4.03613	(13050107)
395370.74	3869226.18	4.57588	(13050107)
395420.74	3869226.18	4.87638	(13050107)
395470.74	3869226.18	4.84389	(13050107)
395520.74	3869226.18	4.43572	(13050107)
395570.74	3869226.18	3.70474	(13050107)
395620.74	3869226.18	2.77073	(13050107)
395670.74	3869226.18	2.87756	(12050913)
395720.74	3869226.18	3.85460	(10051907)
395770.74	3869226.18	5.79789	(10051907)
395820.74	3869226.18	7.29594	(10051907)
395270.74	3869276.18	3.17093	(13050107)
395320.74	3869276.18	3.99918	(13050107)
395370.74	3869276.18	4.79818	(13050107)
395420.74	3869276.18	5.40461	(13050107)

	395270.74	3869426.18	2.72518	(13050115)
395320.74	3869426.18		2.99665	(09052714)
	395370.74	3869426.18	4.12543	(13050107)
395420.74	3869426.18		5.72942	(13050107)
	395470.74	3869426.18	7.46913	(13050107)
395520.74	3869426.18		8.96854	(13050107)
	395570.74	3869426.18	9.76107	(13050107)
395620.74	3869426.18		9.44099	(13050107)
	395670.74	3869426.18	7.90516	(13050107)
395720.74	3869426.18		5.60234	(12050913)
	395770.74	3869426.18	8.16322	(10051907)
395820.74	3869426.18		12.36095	(10051907)
	395270.74	3869476.18	3.39711	(13050108)
395320.74	3869476.18		3.34018	(13050108)
	395370.74	3869476.18	3.65709	(09052714)
395420.74	3869476.18		5.16880	(13050107)
	395470.74	3869476.18	7.35888	(13050107)
395520.74	3869476.18		9.65826	(13050107)
	395570.74	3869476.18	11.52594	(13050107)
395620.74	3869476.18		12.19814	(13050107)
	395670.74	3869476.18	11.14940	(13050107)
395720.74	3869476.18		8.46395	(13050107)
	395770.74	3869476.18	8.85015	(10051907)
395820.74	3869476.18		14.48652	(10051907)
	395270.74	3869526.18	4.10149	(13050108)
395320.74	3869526.18		4.31655	(13050108)
	395370.74	3869526.18	4.35516	(13050108)
395420.74	3869526.18		4.54408	(09052714)
	395470.74	3869526.18	6.67276	(13050107)
395520.74	3869526.18		9.66828	(13050107)
	395570.74	3869526.18	12.82251	(13050107)
395620.74	3869526.18		15.10191	(13050107)
	395670.74	3869526.18	15.36377	(13050107)
395720.74	3869526.18		12.89012	(13050107)
	395770.74	3869526.18	9.51219	(10051907)
395820.74	3869526.18		17.25927	(10051907)
	395270.74	3869576.18	4.71475	(13050607)
395320.74	3869576.18		5.08564	(13050108)
	395370.74	3869576.18	5.54449	(13050108)
395420.74	3869576.18		5.78382	(13050108)
	395470.74	3869576.18	5.76821	(09052714)
395520.74	3869576.18		8.77860	(13050107)
	395570.74	3869576.18	13.12379	(13050107)
395620.74	3869576.18		17.61084	(13050107)
	395670.74	3869576.18	20.33772	(13050107)
395720.74	3869576.18		19.35686	(13050107)
	395770.74	3869576.18	14.12863	(13050107)
395820.74	3869576.18		21.12649	(10051907)

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 53

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

** CONC OF PM_10 IN
**
MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	
395270.74	3869626.18	7.50951	(13050607)	
395320.74	3869626.18	7.22633	(13050607)	
395370.74	3869626.18	6.63301	(13050607)	
395420.74	3869626.18	7.19309	(13050108)	
395470.74	3869626.18	7.84074	(13050108)	
395520.74	3869626.18	8.00392	(13050108)	
395570.74	3869626.18	11.94903	(13050107)	
395620.74	3869626.18	18.62334	(13050107)	
395670.74	3869626.18	25.20930	(13050107)	
395720.74	3869626.18	28.16342	(13050107)	
395770.74	3869626.18	23.88243	(13050107)	
395820.74	3869626.18	26.22706	(10051907)	
395270.74	3869676.18	9.94384	(13050607)	
395320.74	3869676.18	10.50569	(13050607)	
395370.74	3869676.18	10.86668	(13050607)	
395420.74	3869676.18	10.88010	(13050607)	
395470.74	3869676.18	10.25066	(13050607)	
395520.74	3869676.18	10.78608	(13050108)	
395570.74	3869676.18	11.70288	(13050108)	
395620.74	3869676.18	17.03391	(13050107)	
395670.74	3869676.18	28.08280	(13050107)	
395720.74	3869676.18	38.43504	(13050107)	
395770.74	3869676.18	39.92940	(13050107)	
395820.74	3869676.18	32.63498	(10051907)	
395270.74	3869726.18	10.68901	(13050607)	
395320.74	3869726.18	12.31103	(13050607)	
395370.74	3869726.18	14.13622	(13050607)	
395420.74	3869726.18	15.98565	(13050607)	
395470.74	3869726.18	17.48750	(13050607)	
395520.74	3869726.18	18.16640	(13050607)	
395570.74	3869726.18	17.55429	(13050607)	
395620.74	3869726.18	17.94985	(13050108)	

	395670.74	3869726.18	25.89382	(13050107)
395720.74	3869726.18	46.27834	(13050107)	
	395770.74	3869726.18	63.67738	(13050107)
395820.74	3869726.18	55.86898	(13050107)	
	395270.74	3869776.18	9.23453	(13050607)
395320.74	3869776.18	11.39361	(13050607)	
	395370.74	3869776.18	14.17689	(13050607)
395420.74	3869776.18	17.68778	(13050607)	
	395470.74	3869776.18	21.88673	(13050607)
395520.74	3869776.18	26.62220	(13050607)	
	395570.74	3869776.18	31.08406	(13050607)
395620.74	3869776.18	34.66663	(13050607)	
	395670.74	3869776.18	34.68912	(13050607)
395720.74	3869776.18	43.44350	(13050107)	
	395770.74	3869776.18	88.60460	(13050107)
395820.74	3869776.18	117.70439	(13050107)	
	395270.74	3869826.18	9.46921	(11053107)
395320.74	3869826.18	10.62004	(11053107)	
	395370.74	3869826.18	12.01602	(11053107)
395420.74	3869826.18	14.20572	(13050607)	
	395470.74	3869826.18	19.18265	(13050607)
395520.74	3869826.18	26.17874	(13050607)	
	395570.74	3869826.18	35.84051	(13050607)
395620.74	3869826.18	49.01024	(13050607)	
	395670.74	3869826.18	66.46111	(13050607)
395720.74	3869826.18	85.30367	(13050607)	
	395770.74	3869826.18	92.63507	(13050607)
395820.74	3869826.18	226.01238	(13050107)	
	395270.74	3869876.18	10.24678	(11053107)
395320.74	3869876.18	11.77935	(11053107)	
	395370.74	3869876.18	13.73245	(11053107)
395420.74	3869876.18	16.26473	(11053107)	
	395470.74	3869876.18	19.61752	(11053107)
395520.74	3869876.18	24.20468	(11053107)	
	395570.74	3869876.18	30.71940	(11053107)
395620.74	3869876.18	40.93359	(11053107)	
	395670.74	3869876.18	61.56480	(13050607)
395720.74	3869876.18	107.06508	(13050607)	
	395770.74	3869876.18	201.69827	(13050607)
395820.74	3869876.18	409.23612	(13050607)	
	395270.74	3869926.18	9.00048	(11053107)
395320.74	3869926.18	10.36989	(11053107)	
	395370.74	3869926.18	12.11333	(11053107)
395420.74	3869926.18	14.39904	(11053107)	
	395470.74	3869926.18	17.48019	(11053107)
395520.74	3869926.18	21.70443	(11053107)	
	395570.74	3869926.18	27.85931	(11053107)
395620.74	3869926.18	37.85060	(11053107)	

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*** AERMOD - VERSION 16216r ***    *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc    ***    02/07/18
*** AERMET - VERSION 14134 ***    ***
***    13:21:41

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PAGE 54

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF PM_10 IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
395670.74	3869926.18	55.45292	(11053107)	
395720.74	3869926.18	88.72786	(11053107)	
395770.74	3869926.18	164.26284	(11053107)	
395820.74	3869926.18	399.36335	(11053107)	
395270.74	3869976.18	6.38847	(11053107)	
395320.74	3869976.18	7.19173	(11053107)	
395370.74	3869976.18	8.20527	(11053107)	
395420.74	3869976.18	9.41598	(11053107)	
395470.74	3869976.18	11.02965	(11053107)	
395520.74	3869976.18	12.96938	(11053107)	
395570.74	3869976.18	15.44883	(11053107)	
395620.74	3869976.18	18.95306	(11053107)	
395670.74	3869976.18	26.46247	(10051910)	
395720.74	3869976.18	48.88519	(12052108)	
395770.74	3869976.18	104.10116	(12052108)	
395820.74	3869976.18	237.46504	(11053108)	
395870.74	3869976.18	474.80928	(09052707)	
395920.74	3869976.18	479.87928	(10052508)	
395970.74	3869976.18	321.21841	(09050507)	
396020.74	3869976.18	134.95949	(12052807)	
396070.74	3869976.18	75.88117	(12052807)	
396120.74	3869976.18	43.61068	(12052807)	
396170.74	3869976.18	28.26276	(13050609)	
396220.74	3869976.18	20.96695	(13050609)	
396270.74	3869976.18	16.74637	(11050207)	
396320.74	3869976.18	14.12834	(11050207)	
396370.74	3869976.18	12.14396	(11050207)	
396420.74	3869976.18	10.67050	(11050207)	
396470.74	3869976.18	9.46306	(11050207)	
396520.74	3869976.18	8.45182	(11050207)	
396570.74	3869976.18	7.60331	(11050207)	
396620.74	3869976.18	6.89639	(11050207)	

	396668.32	3869988.26	5.74763	(11050207)
396718.32	3869988.26	5.29857	(11050207)	
	396768.32	3869988.26	4.92001	(11050207)
396818.32	3869988.26	4.59777	(11050207)	
	396868.32	3869993.09	4.17866	(11050207)
396918.32	3869993.09	3.95354	(11050207)	
	396968.32	3869993.09	3.75236	(11050207)
397018.32	3869993.09	3.57917	(11050207)	
	397068.32	3869993.09	3.42932	(11050207)
397118.32	3869993.09	3.30060	(11050207)	
	397168.32	3869993.09	3.18941	(11050207)
397218.32	3869993.09	3.08974	(11050207)	
	397268.32	3869993.09	3.00249	(11050207)
395270.74	3870026.18	3.65022	(11053107)	
	395320.74	3870026.18	4.16099	(10051910)
395370.74	3870026.18	4.98803	(10051910)	
	395420.74	3870026.18	6.03576	(10051910)
395470.74	3870026.18	7.37866	(10051910)	
	395520.74	3870026.18	9.18844	(11050413)
395570.74	3870026.18	12.30143	(12052108)	
	395620.74	3870026.18	19.61750	(12052108)
395670.74	3870026.18	31.23448	(12052108)	
	395720.74	3870026.18	49.95113	(11053108)
395770.74	3870026.18	78.04762	(11053108)	
	395820.74	3870026.18	106.59502	(11053008)
395870.74	3870026.18	145.57273	(09052707)	
	395920.74	3870026.18	192.59326	(09051807)
395970.74	3870026.18	180.15154	(09050507)	
	396020.74	3870026.18	136.01042	(09050507)
396070.74	3870026.18	61.16645	(09050507)	
	396120.74	3870026.18	47.04178	(13051307)
396170.74	3870026.18	34.02733	(13051307)	
	396220.74	3870026.18	23.80224	(13051307)
396270.74	3870026.18	16.80260	(12052807)	
	396320.74	3870026.18	12.39940	(13051407)
396370.74	3870026.18	10.30220	(13050609)	
	396420.74	3870026.18	8.59871	(13050609)
396470.74	3870026.18	7.21395	(13050609)	
	396520.74	3870026.18	6.08772	(13050609)
396570.74	3870026.18	5.17073	(13050609)	
	396620.74	3870026.18	4.41286	(13050609)
396670.74	3870026.18	3.97297	(11050207)	
	396720.74	3870026.18	3.74163	(11050207)
396770.74	3870026.18	3.53738	(11050207)	
	396820.74	3870026.18	3.35752	(11050207)
396870.74	3870026.18	3.19781	(11050207)	
	396920.74	3870026.18	3.06239	(11050207)
396970.74	3870026.18	2.94687	(11050207)	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 55

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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)	
397020.74	3870026.18	2.84172	(11050207)	
397070.74	3870026.18	2.74356	(11050207)	
397120.74	3870026.18	2.66005	(11050207)	
397170.74	3870026.18	2.58905	(11050207)	
397220.74	3870026.18	2.52571	(11050207)	
397270.74	3870026.18	2.46872	(11050207)	
395270.74	3870076.18	3.35203	(10051910)	
395320.74	3870076.18	3.94173	(11050413)	
395370.74	3870076.18	4.68774	(11050413)	
395420.74	3870076.18	5.60281	(11050413)	
395470.74	3870076.18	7.55236	(12052108)	
395520.74	3870076.18	10.81873	(12052108)	
395570.74	3870076.18	15.31780	(12052108)	
395620.74	3870076.18	21.17989	(12052108)	
395670.74	3870076.18	29.45211	(11053108)	
395720.74	3870076.18	38.08151	(11053108)	
395770.74	3870076.18	46.94778	(12050708)	
395820.74	3870076.18	61.28784	(11053008)	
395870.74	3870076.18	80.19649	(09051907)	
395920.74	3870076.18	106.63048	(09051807)	
395970.74	3870076.18	84.74239	(11052507)	
396020.74	3870076.18	97.43049	(09050507)	
396070.74	3870076.18	76.37950	(09050507)	
396120.74	3870076.18	42.58109	(09050507)	
396170.74	3870076.18	29.27319	(13051307)	
396220.74	3870076.18	24.79763	(13051307)	
396270.74	3870076.18	19.77842	(13051307)	
396320.74	3870076.18	15.25035	(13051307)	
396370.74	3870076.18	11.72166	(12052807)	
396420.74	3870076.18	9.11048	(12052807)	
396470.74	3870076.18	7.43547	(13051407)	
396520.74	3870076.18	6.31488	(13051407)	

	396570.74	3870076.18	5.35530	(13051407)
396620.74	3870076.18	4.61553	(13050609)	
	396670.74	3870076.18	4.05516	(13050609)
396720.74	3870076.18	3.57265	(13050609)	
	396770.74	3870076.18	3.15020	(13050609)
396820.74	3870076.18	2.83731	(10051208)	
	396870.74	3870076.18	2.58409	(10051208)
396920.74	3870076.18	2.36030	(10051208)	
	396970.74	3870076.18	2.16614	(10051208)
397020.74	3870076.18	1.99256	(10051208)	
	397070.74	3870076.18	1.89919	(09051810)
397120.74	3870076.18	1.81661	(09051810)	
	397170.74	3870076.18	1.74611	(11050207)
397220.74	3870076.18	1.72742	(11050207)	
	397270.74	3870076.18	1.70922	(11050207)
395270.74	3870126.18	3.24034	(11050413)	
	395320.74	3870126.18	3.84885	(12052108)
395370.74	3870126.18	5.19398	(12052108)	
	395420.74	3870126.18	6.96822	(12052108)
395470.74	3870126.18	9.25868	(12052108)	
	395520.74	3870126.18	12.04806	(12052108)
395570.74	3870126.18	15.05227	(12052108)	
	395620.74	3870126.18	19.54050	(11053108)
395670.74	3870126.18	22.96674	(11053108)	
	395720.74	3870126.18	26.96920	(12050708)
395770.74	3870126.18	35.45812	(11053008)	
	395820.74	3870126.18	42.03865	(09051908)
395870.74	3870126.18	51.83540	(09051907)	
	395920.74	3870126.18	65.11843	(09051807)
395970.74	3870126.18	58.96065	(11052507)	
	396020.74	3870126.18	50.58137	(09050507)
396070.74	3870126.18	61.21066	(09050507)	
	396120.74	3870126.18	49.51208	(09050507)
396170.74	3870126.18	31.13915	(09050507)	
	396220.74	3870126.18	18.63786	(13051307)
396270.74	3870126.18	17.58087	(13051307)	
	396320.74	3870126.18	15.47173	(13051307)
396370.74	3870126.18	13.01419	(13051307)	
	396420.74	3870126.18	10.62508	(13051307)
396470.74	3870126.18	8.73877	(12052807)	
	396520.74	3870126.18	7.17817	(12052807)
396570.74	3870126.18	5.86874	(12052807)	
	396620.74	3870126.18	5.00453	(13051407)
396670.74	3870126.18	4.40165	(13051407)	
	396720.74	3870126.18	3.85976	(13051407)
396770.74	3870126.18	3.37837	(13051407)	
	396820.74	3870126.18	2.95494	(13051407)
396870.74	3870126.18	2.61007	(10051208)	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 56

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396970.74	3870126.18	2.42035	(10051208)	
397020.74	3870126.18	2.24800	(10051208)	
397070.74	3870126.18	2.09401	(10051208)	
397120.74	3870126.18	1.95506	(10051208)	
397170.74	3870126.18	1.83061	(10051208)	
397220.74	3870126.18	1.71784	(10051208)	
397270.74	3870126.18	1.61348	(10051208)	
397270.74	3870126.18	1.54185	(09051810)	
395270.74	3870176.18	3.87694	(12052108)	
395320.74	3870176.18	4.96671	(12052108)	
395370.74	3870176.18	6.31755	(12052108)	
395420.74	3870176.18	7.88247	(12052108)	
395470.74	3870176.18	9.57392	(12052108)	
395520.74	3870176.18	11.56730	(11053108)	
395570.74	3870176.18	14.05498	(11053108)	
395620.74	3870176.18	15.58243	(11053108)	
395670.74	3870176.18	17.20786	(12050708)	
395720.74	3870176.18	21.39903	(11053008)	
395770.74	3870176.18	24.85280	(11053008)	
395820.74	3870176.18	29.05491	(09051908)	
395870.74	3870176.18	36.18886	(09051907)	
395920.74	3870176.18	42.82038	(09051807)	
395970.74	3870176.18	44.69367	(09051807)	
396020.74	3870176.18	35.61120	(13052107)	
396070.74	3870176.18	38.30622	(09050507)	
396120.74	3870176.18	42.23836	(09050507)	
396170.74	3870176.18	34.94164	(09050507)	
396220.74	3870176.18	23.73077	(09050507)	
396270.74	3870176.18	14.05418	(09050507)	
396320.74	3870176.18	12.45077	(13051307)	
396370.74	3870176.18	11.80338	(13051307)	
396420.74	3870176.18	10.64042	(13051307)	

	396470.74	3870176.18	9.25742	(13051307)
396520.74	3870176.18	7.97542	(12052807)	
	396570.74	3870176.18	6.89279	(12052807)
396620.74	3870176.18	5.90028	(12052807)	
	396670.74	3870176.18	5.01872	(12052807)
396720.74	3870176.18	4.25473	(12052807)	
	396770.74	3870176.18	3.62283	(13051407)
396820.74	3870176.18	3.26088	(13051407)	
	396870.74	3870176.18	2.92368	(13051407)
396920.74	3870176.18	2.61435	(13051407)	
	396970.74	3870176.18	2.33388	(13051407)
397020.74	3870176.18	2.08027	(13051407)	
	397070.74	3870176.18	1.95553	(10051208)
397120.74	3870176.18	1.85196	(10051208)	
	397170.74	3870176.18	1.75637	(10051208)
397220.74	3870176.18	1.66739	(10051208)	
	397270.74	3870176.18	1.58505	(10051208)
395270.74	3870226.18	4.68856	(12052108)	
	395320.74	3870226.18	5.67305	(12052108)
395370.74	3870226.18	6.72967	(12052108)	
	395420.74	3870226.18	7.77925	(12052108)
395470.74	3870226.18	9.21036	(11053108)	
	395520.74	3870226.18	10.62830	(11053108)
395570.74	3870226.18	11.37674	(11053108)	
	395620.74	3870226.18	11.89930	(12050708)
395670.74	3870226.18	13.66535	(11053008)	
	395720.74	3870226.18	17.35101	(11053008)
395770.74	3870226.18	19.63312	(09051908)	
	395820.74	3870226.18	20.49074	(09051908)
395870.74	3870226.18	26.65051	(09051907)	
	395920.74	3870226.18	29.75969	(09051907)
395970.74	3870226.18	34.86872	(09051807)	
	396020.74	3870226.18	27.80576	(11052507)
396070.74	3870226.18	25.83277	(13052107)	
	396120.74	3870226.18	29.56839	(09050507)
396170.74	3870226.18	31.01649	(09050507)	
	396220.74	3870226.18	26.09581	(09050507)
396270.74	3870226.18	18.69117	(09050507)	
	396320.74	3870226.18	11.89456	(09050507)
396370.74	3870226.18	8.89286	(13051307)	
	396420.74	3870226.18	8.92903	(13051307)
396470.74	3870226.18	8.51256	(13051307)	
	396520.74	3870226.18	7.80250	(13051307)
396570.74	3870226.18	7.06490	(12052807)	
	396620.74	3870226.18	6.38739	(12052807)
396670.74	3870226.18	5.70122	(12052807)	
	396720.74	3870226.18	5.03733	(12052807)
396770.74	3870226.18	4.41917	(12052807)	

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***           02/07/18
*** AERMET - VERSION 14134 ***   ***
***           13:21:41

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PAGE 57

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*** MODELOPTs:   RegDEFAULT CONC ELEV RURAL

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF PM_10 IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396820.74	3870226.18	3.85946	(12052807)	
396870.74	3870226.18	3.35903	(12052807)	
396920.74	3870226.18	2.91708	(12052807)	
396970.74	3870226.18	2.52591	(12052807)	
397020.74	3870226.18	2.29608	(13051407)	
397070.74	3870226.18	2.08553	(13051407)	
397120.74	3870226.18	1.89081	(13051407)	
397170.74	3870226.18	1.71061	(13051407)	
397220.74	3870226.18	1.63925	(10051208)	
397270.74	3870226.18	1.57562	(10051208)	
395270.74	3870276.18	5.10452	(12052108)	
395320.74	3870276.18	5.81867	(12052108)	
395370.74	3870276.18	6.46270	(11053108)	
395420.74	3870276.18	7.56168	(11053108)	
395470.74	3870276.18	8.40698	(11053108)	
395520.74	3870276.18	8.71562	(11053108)	
395570.74	3870276.18	8.77902	(12050708)	
395620.74	3870276.18	9.15000	(11053008)	
395670.74	3870276.18	12.15542	(11053008)	
395720.74	3870276.18	13.28860	(11053008)	
395770.74	3870276.18	15.77053	(09051908)	
395820.74	3870276.18	14.80573	(09051908)	
395870.74	3870276.18	20.42693	(09051907)	
395920.74	3870276.18	23.05216	(09051907)	
395970.74	3870276.18	27.26367	(09051807)	
396020.74	3870276.18	22.36081	(09051808)	
396070.74	3870276.18	19.81709	(13052107)	
396120.74	3870276.18	18.41073	(13052107)	
396170.74	3870276.18	23.38524	(09050507)	
396220.74	3870276.18	23.80254	(09050507)	
396270.74	3870276.18	20.29209	(09050507)	
396320.74	3870276.18	15.10812	(09050507)	

396370.74	3870276.18	10.14376	(09050507)
396420.74	3870276.18	7.12077	(13052807)
396470.74	3870276.18	6.75174	(13051307)
396520.74	3870276.18	6.73237	(13051307)
396570.74	3870276.18	6.44779	(13051307)
396620.74	3870276.18	6.15387	(12052807)
396670.74	3870276.18	5.78742	(12052807)
396720.74	3870276.18	5.35930	(12052807)
396770.74	3870276.18	4.90418	(12052807)
396820.74	3870276.18	4.44153	(12052807)
396870.74	3870276.18	3.99021	(12052807)
396920.74	3870276.18	3.56520	(12052807)
396970.74	3870276.18	3.17217	(12052807)
397020.74	3870276.18	2.81044	(12052807)
397070.74	3870276.18	2.48311	(12052807)
397120.74	3870276.18	2.18803	(12052807)
397170.74	3870276.18	1.92413	(12052807)
397220.74	3870276.18	1.75985	(10050308)
397270.74	3870276.18	1.65613	(10050308)
395270.74	3870326.18	5.08255	(12052108)
395320.74	3870326.18	5.63494	(11053108)
395370.74	3870326.18	6.37169	(11053108)
395420.74	3870326.18	6.86510	(11053108)
395470.74	3870326.18	6.98076	(11053108)
395520.74	3870326.18	6.80309	(12050708)
395570.74	3870326.18	6.96792	(12050708)
395620.74	3870326.18	8.67688	(11053008)
395670.74	3870326.18	10.16921	(11053008)
395720.74	3870326.18	11.13741	(09051908)
395770.74	3870326.18	12.56580	(09051908)
395820.74	3870326.18	11.71440	(10052509)
395870.74	3870326.18	16.15914	(09051907)
395920.74	3870326.18	18.21368	(09051907)
395970.74	3870326.18	21.70853	(09051807)
396020.74	3870326.18	19.42202	(09051807)
396070.74	3870326.18	15.95597	(11052507)
396120.74	3870326.18	15.77233	(13052107)
396170.74	3870326.18	15.72483	(09050507)
396220.74	3870326.18	18.90798	(09050507)
396270.74	3870326.18	18.86946	(09050507)
396320.74	3870326.18	16.25723	(09050507)
396370.74	3870326.18	12.46973	(09050507)
396420.74	3870326.18	8.72841	(09050507)
396470.74	3870326.18	6.03804	(10051207)
396520.74	3870326.18	5.25637	(13052807)
396570.74	3870326.18	5.29897	(13051307)
396620.74	3870326.18	5.33862	(12052807)
396670.74	3870326.18	5.31384	(12052807)

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*** AERMOD - VERSION 16216r ***   *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc   ***   02/07/18
*** AERMET - VERSION 14134 ***   ***
***   13:21:41

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PAGE 58

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*** MODELOPTs:   RegDEFAULT   CONC   ELEV   RURAL

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*** THE   1ST HIGHEST   1-HR AVERAGE
CONCENTRATION   VALUES FOR SOURCE GROUP:   ALL   ***
                INCLUDING SOURCE(S):   AREA1   ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF PM_10   IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396770.74	3870326.18	5.17295	(12052807)	
396820.74	3870326.18	4.94825	(12052807)	
396870.74	3870326.18	4.66594	(12052807)	
396920.74	3870326.18	4.35076	(12052807)	
396970.74	3870326.18	4.01532	(12052807)	
397020.74	3870326.18	3.67770	(12052807)	
397070.74	3870326.18	3.34398	(12052807)	
397120.74	3870326.18	3.02518	(12052807)	
397170.74	3870326.18	2.72219	(12052807)	
397220.74	3870326.18	2.44472	(12052807)	
397270.74	3870326.18	2.19219	(12052807)	
395320.74	3870376.18	1.96034	(12052807)	
395370.74	3870376.18	5.00077	(11053108)	
395420.74	3870376.18	5.49202	(11053108)	
395470.74	3870376.18	5.78297	(11053108)	
395520.74	3870376.18	5.76336	(11053108)	
395570.74	3870376.18	5.44688	(12050708)	
395620.74	3870376.18	5.61053	(12050708)	
395670.74	3870376.18	6.31482	(11053008)	
395720.74	3870376.18	7.73900	(11053008)	
395770.74	3870376.18	8.19396	(11053008)	
395820.74	3870376.18	9.67094	(09051908)	
395870.74	3870376.18	10.01711	(09051908)	
395920.74	3870376.18	9.74774	(10052509)	
395970.74	3870376.18	13.10353	(09051907)	
396020.74	3870376.18	14.74717	(09051907)	
396070.74	3870376.18	17.35372	(09051807)	
396120.74	3870376.18	16.88158	(09051807)	
396170.74	3870376.18	13.74507	(11052507)	
396220.74	3870376.18	12.60499	(13052107)	
		12.25257	(13052107)	
		13.56154	(09050507)	

	396270.74	3870376.18	15.58113	(09050507)
396320.74	3870376.18	15.34120	(09050507)	
	396370.74	3870376.18	13.33440	(09050507)
396420.74	3870376.18	10.46799	(09050507)	
	396470.74	3870376.18	7.57568	(09050507)
396520.74	3870376.18	5.27304	(10051207)	
	396570.74	3870376.18	4.55448	(13052807)
396620.74	3870376.18	4.21401	(12052807)	
	396670.74	3870376.18	4.44638	(12052807)
396720.74	3870376.18	4.56727	(12052807)	
	396770.74	3870376.18	4.58364	(12052807)
396820.74	3870376.18	4.51191	(12052807)	
	396870.74	3870376.18	4.37158	(12052807)
396920.74	3870376.18	4.17990	(12052807)	
	396970.74	3870376.18	3.95383	(12052807)
397020.74	3870376.18	3.69886	(12052807)	
	397070.74	3870376.18	3.43552	(12052807)
397120.74	3870376.18	3.16710	(12052807)	
	397170.74	3870376.18	2.90302	(12052807)
397220.74	3870376.18	2.65397	(12052807)	
	397270.74	3870376.18	2.41756	(12052807)
395270.74	3870426.18	4.83256	(11053108)	
	395320.74	3870426.18	4.99009	(11053108)
395370.74	3870426.18	4.89546	(11053108)	
	395420.74	3870426.18	4.53825	(11053108)
395470.74	3870426.18	4.61642	(12050708)	
	395520.74	3870426.18	4.69108	(11053008)
395570.74	3870426.18	5.91840	(11053008)	
	395620.74	3870426.18	6.62224	(11053008)
395670.74	3870426.18	7.02831	(09051908)	
	395720.74	3870426.18	8.26917	(09051908)
395770.74	3870426.18	8.05139	(09051908)	
	395820.74	3870426.18	8.20732	(10052509)
395870.74	3870426.18	10.83331	(09051907)	
	395920.74	3870426.18	12.17581	(09051907)
395970.74	3870426.18	13.92842	(09051807)	
	396020.74	3870426.18	14.66868	(09051807)
396070.74	3870426.18	11.93545	(09051808)	
	396120.74	3870426.18	10.23009	(11052507)
396170.74	3870426.18	10.58803	(13052107)	
	396220.74	3870426.18	9.55827	(13052107)
396270.74	3870426.18	11.73528	(09050507)	
	396320.74	3870426.18	13.04910	(09050507)
396370.74	3870426.18	12.72754	(09050507)	
	396420.74	3870426.18	11.14512	(09050507)
396470.74	3870426.18	8.91632	(09050507)	
	396520.74	3870426.18	6.62755	(09050507)
396570.74	3870426.18	4.63208	(10051207)	

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*** AERMET - VERSION 14134 ***   ***
***                               13:21:41

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PAGE 59

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
396620.74	3870426.18	3.96488	(13052807)	
396670.74	3870426.18	3.56440	(13052807)	
396720.74	3870426.18	3.71696	(12052807)	
396770.74	3870426.18	3.91878	(12052807)	
396820.74	3870426.18	4.03848	(12052807)	
396870.74	3870426.18	4.07696	(12052807)	
396920.74	3870426.18	4.04635	(12052807)	
396970.74	3870426.18	3.95674	(12052807)	
397020.74	3870426.18	3.82214	(12052807)	
397070.74	3870426.18	3.65089	(12052807)	
397120.74	3870426.18	3.45614	(12052807)	
397170.74	3870426.18	3.24612	(12052807)	
397220.74	3870426.18	3.02621	(12052807)	
397270.74	3870426.18	2.80980	(12052807)	
395270.74	3870476.18	4.39618	(11053108)	
395320.74	3870476.18	4.26061	(11053108)	
395370.74	3870476.18	3.92443	(11053108)	
395420.74	3870476.18	3.88279	(12050708)	
395470.74	3870476.18	3.75188	(12050708)	
395520.74	3870476.18	4.56162	(11053008)	
395570.74	3870476.18	5.31600	(11053008)	
395620.74	3870476.18	5.51203	(11053008)	
395670.74	3870476.18	6.41268	(09051908)	
395720.74	3870476.18	7.02603	(09051908)	
395770.74	3870476.18	6.48165	(09051908)	
395820.74	3870476.18	6.98561	(10052509)	
395870.74	3870476.18	9.12439	(09051907)	
395920.74	3870476.18	10.22608	(09051907)	
395970.74	3870476.18	11.29176	(09051807)	
396020.74	3870476.18	12.61873	(09051807)	
396070.74	3870476.18	10.77018	(09051807)	
396120.74	3870476.18	9.31748	(11052507)	

	396170.74	3870476.18	8.70198	(13052107)
396220.74	3870476.18	8.72535	(13052107)	
	396270.74	3870476.18	8.22261	(09050507)
396320.74	3870476.18	10.21230	(09050507)	
	396370.74	3870476.18	11.08277	(09050507)
396420.74	3870476.18	10.73401	(09050507)	
	396470.74	3870476.18	9.45784	(09050507)
396520.74	3870476.18	7.68461	(09050507)	
	396570.74	3870476.18	5.84173	(09050507)
396620.74	3870476.18	4.19109	(09050507)	
	396670.74	3870476.18	3.56903	(12050908)
396720.74	3870476.18	3.27117	(12050908)	
	396770.74	3870476.18	3.12080	(12052807)
396820.74	3870476.18	3.36500	(12052807)	
	396870.74	3870476.18	3.54461	(12052807)
396920.74	3870476.18	3.65992	(12052807)	
	396970.74	3870476.18	3.71002	(12052807)
397020.74	3870476.18	3.70287	(12052807)	
	397070.74	3870476.18	3.64475	(12052807)
397120.74	3870476.18	3.54278	(12052807)	
	397170.74	3870476.18	3.41440	(12052807)
397220.74	3870476.18	3.26388	(12052807)	
	397270.74	3870476.18	3.09435	(12052807)
395270.74	3870526.18	3.79027	(11053108)	
	395320.74	3870526.18	3.46791	(11053108)
395370.74	3870526.18	3.32267	(12050708)	
	395420.74	3870526.18	3.22975	(12050708)
395470.74	3870526.18	3.58911	(11053008)	
	395520.74	3870526.18	4.27426	(11053008)
395570.74	3870526.18	4.63103	(11053008)	
	395620.74	3870526.18	4.79315	(09051908)
395670.74	3870526.18	5.74792	(09051908)	
	395720.74	3870526.18	5.95445	(09051908)
395770.74	3870526.18	5.25928	(09051908)	
	395820.74	3870526.18	6.00860	(10052509)
395870.74	3870526.18	7.78813	(09051907)	
	395920.74	3870526.18	8.70654	(09051907)
395970.74	3870526.18	9.24079	(09051807)	
	396020.74	3870526.18	10.78866	(09051807)
396070.74	3870526.18	9.91214	(09051807)	
	396120.74	3870526.18	8.38160	(11052507)
396170.74	3870526.18	7.26699	(11052507)	
	396220.74	3870526.18	7.57793	(13052107)
396270.74	3870526.18	7.12988	(13052107)	
	396320.74	3870526.18	7.48912	(09050507)
396370.74	3870526.18	8.99127	(09050507)	
	396420.74	3870526.18	9.52415	(09050507)
396470.74	3870526.18	9.17721	(09050507)	

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View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 60

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

RECEPTOR POINTS ***

*** DISCRETE CARTESIAN

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

*** 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)	
396520.74	3870526.18	8.12904	(09050507)	
396570.74	3870526.18	6.69256	(09050507)	
396620.74	3870526.18	5.18411	(09050507)	
396670.74	3870526.18	3.80515	(09050507)	
396720.74	3870526.18	3.34436	(12050908)	
396770.74	3870526.18	3.11742	(12050908)	
396820.74	3870526.18	2.85135	(12050908)	
396870.74	3870526.18	2.89434	(12052807)	
396920.74	3870526.18	3.10693	(12052807)	
396970.74	3870526.18	3.26806	(12052807)	
397020.74	3870526.18	3.37644	(12052807)	
397070.74	3870526.18	3.43192	(12052807)	
397120.74	3870526.18	3.43949	(12052807)	
397170.74	3870526.18	3.39820	(12052807)	
397220.74	3870526.18	3.32694	(12052807)	
397270.74	3870526.18	3.22802	(12052807)	
395270.74	3870576.18	3.12727	(11053108)	
395320.74	3870576.18	2.87967	(12050708)	
395370.74	3870576.18	2.82451	(12050708)	
395420.74	3870576.18	2.87427	(11053008)	
395470.74	3870576.18	3.49791	(11053008)	
395520.74	3870576.18	3.90492	(11053008)	
395570.74	3870576.18	3.97106	(11053008)	
395620.74	3870576.18	4.50836	(09051908)	
395670.74	3870576.18	5.09863	(09051908)	
395720.74	3870576.18	5.04225	(09051908)	
395770.74	3870576.18	4.30158	(09051908)	
395820.74	3870576.18	5.21109	(10052509)	
395870.74	3870576.18	6.71978	(09051907)	
395920.74	3870576.18	7.52017	(09051907)	
395970.74	3870576.18	7.62832	(09051807)	
396020.74	3870576.18	9.22726	(09051807)	

	396070.74	3870576.18	8.96588	(09051807)
396120.74	3870576.18	7.48021	(09051808)	
	396170.74	3870576.18	6.89358	(11052507)
396220.74	3870576.18	6.38509	(13052107)	
	396270.74	3870576.18	6.47805	(13052107)
396320.74	3870576.18	5.80962	(13052107)	
	396370.74	3870576.18	6.80335	(09050507)
396420.74	3870576.18	7.91046	(09050507)	
	396470.74	3870576.18	8.29368	(09050507)
396520.74	3870576.18	7.93632	(09050507)	
	396570.74	3870576.18	7.06261	(09050507)
396620.74	3870576.18	5.88002	(09050507)	
	396670.74	3870576.18	4.62679	(09050507)
396720.74	3870576.18	3.46562	(09050507)	
	396770.74	3870576.18	3.15737	(12050908)
396820.74	3870576.18	2.98430	(12050908)	
	396870.74	3870576.18	2.77149	(12050908)
396920.74	3870576.18	2.53435	(12050908)	
	396970.74	3870576.18	2.72143	(12052807)
397020.74	3870576.18	2.90923	(12052807)	
	397070.74	3870576.18	3.05540	(12052807)
397120.74	3870576.18	3.15995	(12052807)	
	397170.74	3870576.18	3.21596	(12052807)
397220.74	3870576.18	3.23024	(12052807)	
	397270.74	3870576.18	3.20618	(12052807)
395270.74	3870626.18	2.53297	(12050708)	
	395320.74	3870626.18	2.48981	(12050708)
395370.74	3870626.18	2.33259	(11053008)	
	395420.74	3870626.18	2.87674	(11053008)
395470.74	3870626.18	3.29742	(11053008)	
	395520.74	3870626.18	3.48870	(11053008)
395570.74	3870626.18	3.45165	(09051908)	
	395620.74	3870626.18	4.17597	(09051908)
395670.74	3870626.18	4.49372	(09051908)	
	395720.74	3870626.18	4.27001	(09051908)
395770.74	3870626.18	3.72373	(10052509)	
	395820.74	3870626.18	4.55311	(10052509)
395870.74	3870626.18	5.85335	(09051907)	
	395920.74	3870626.18	6.54976	(09051907)
395970.74	3870626.18	6.35195	(09051807)	
	396020.74	3870626.18	7.90806	(09051807)
396070.74	3870626.18	8.05042	(09051807)	
	396120.74	3870626.18	6.77829	(09051807)
396170.74	3870626.18	6.39324	(11052507)	
	396220.74	3870626.18	5.46996	(11052507)
396270.74	3870626.18	5.71933	(13052107)	
	396320.74	3870626.18	5.51385	(13052107)
396370.74	3870626.18	4.87978	(09050507)	

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View\EAFB_Solar\EAFB_Solar.isc    ***          02/07/18
*** AERMET - VERSION 14134 ***    ***
***          13:21:41

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PAGE 61

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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  RURAL
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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): AREA1 ,

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*** DISCRETE CARTESIAN

RECEPTOR POINTS ***

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** CONC OF PM_10  IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
396420.74	3870626.18	6.18109 (09050507)	
396470.74	3870626.18	7.02991 (09050507)	
396520.74	3870626.18	7.29377 (09050507)	
396570.74	3870626.18	6.98047 (09050507)	
396620.74	3870626.18	6.19273 (09050507)	
396670.74	3870626.18	5.20526 (09050507)	
396720.74	3870626.18	4.15291 (09050507)	
396770.74	3870626.18	3.16483 (09050507)	
396820.74	3870626.18	2.99987 (12050908)	
396870.74	3870626.18	2.86892 (12050908)	
396920.74	3870626.18	2.69691 (12050908)	
396970.74	3870626.18	2.49612 (12050908)	
397020.74	3870626.18	2.38362 (12052807)	
397070.74	3870626.18	2.58883 (12052807)	
397120.74	3870626.18	2.75872 (12052807)	
397170.74	3870626.18	2.89212 (12052807)	
397220.74	3870626.18	2.98731 (12052807)	
397270.74	3870626.18	3.04152 (12052807)	

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 63

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE SUMMARY OF

HIGHEST 1-HR RESULTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN
**

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH)

RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 726.28305 ON 10052508: AT (
395911.79, 3869961.46, 778.40, 1275.00, 0.00) GC UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 16216r *** *** C:\Lakes\AERMOD
View\EAFB_Solar\EAFB_Solar.isc *** 02/07/18
*** AERMET - VERSION 14134 *** ***
*** 13:21:41

PAGE 64

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 8029 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 5748 Calm Hours Identified

A Total of 2281 Missing Hours Identified (5.20 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Health Risk Assessment Emissions Inventory

Construction

**Edwards AFB Solar Project - Construction Area Source
Annual Exhaust PM10 from Equipment and Haul Trucks**

UNMITIGATED TOTAL

Total

2.3684 tons during overall construction
2.3684 tons during overall construction
4,736.80 lbs during overall construction
2,368.40 lbs/yr
1.121 lbs/hr

Construction =

8 hours/day
 2112 hours/year
 264 days/year
 12 months
 2 year

Emissions from CalEEMod 2016.3.2:

Exhaust PM10 tpy

2018 0.643

2019 1.1814

2020 0.544

Total 2.3684

MITIGATED TOTAL

Total

1.543 tons during overall construction
1.543 tons during overall construction
3,086.00 lbs during overall construction
1,543.00 lbs/yr
0.731 lbs/hr

Construction =

8 hours/day
 2112 hours/year
 264 days/year
 12 months
 2 year

Emissions from CalEEMod 2016.3.2:

Exhaust PM10 tpy

2018 0.3954

2019 0.7738

2020 0.3738

Total 1.543

Health Risk Assessment Emissions Inventory

Operations

**Edwards AFB Solar Project - Operational Area Source
Annual Exhaust PM10 from Equipment and Haul Trucks**

UNMITIGATED TOTAL

Total

0.0039 tons during annual operations

0.0039 tons during annual operations

7.80 lbs during annual operations

7.80 lbs/yr

0.081 lbs/hr

Emissions from CalEEMod 2016.3.2:

2020 3.90E-03

O & M =

8 hours/day

12 days/year

96 hours/year

1 year

Total **0.0039**

HARP 2 Outputs

Construction

Edwards AFB Solar Facility Project - Construction HRA - Unmitigated Cancer Health Risk

**HARP 2 - Air Dispersion Modeling and Risk Tool v17320

**2/7/2018

** Cancer Risk Results of All Discrete Sensitive Receptor Points Are Shown - Descending From Maximum to Minimum

REC	X	Y	RISK_SUM	SCENARIO	INH_RISK
792	396570.7	3869976	6.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.45E-06
790	396470.7	3869976	6.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.42E-06
791	396520.7	3869976	6.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.42E-06
793	396620.7	3869976	6.39E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.39E-06
789	396420.7	3869976	6.33E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.33E-06
788	396370.7	3869976	6.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.22E-06
787	396320.7	3869976	6.08E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.08E-06
786	396270.7	3869976	5.90E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.90E-06
794	396668.3	3869988	5.65E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.65E-06
785	396220.7	3869976	5.65E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.65E-06
795	396718.3	3869988	5.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.50E-06
784	396170.7	3869976	5.40E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.40E-06
796	396768.3	3869988	5.16E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.16E-06
783	396120.7	3869976	5.09E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.09E-06
782	396070.7	3869976	4.67E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.67E-06
834	396620.7	3870026	4.44E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.44E-06
833	396570.7	3870026	4.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.43E-06
832	396520.7	3870026	4.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.41E-06
835	396670.7	3870026	4.38E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.38E-06
797	396818.3	3869988	4.35E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.35E-06
831	396470.7	3870026	4.35E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.35E-06
836	396720.7	3870026	4.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.31E-06
830	396420.7	3870026	4.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.26E-06
781	396020.7	3869976	4.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.20E-06
829	396370.7	3870026	4.14E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.14E-06
837	396770.7	3870026	4.09E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.09E-06
828	396320.7	3870026	4.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.01E-06
609	395820.7	3869276	3.93E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.93E-06
597	395820.7	3869226	3.92E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.92E-06
621	395820.7	3869326	3.91E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.91E-06
633	395820.7	3869376	3.88E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.88E-06
585	395820.7	3869176	3.88E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.88E-06
827	396270.7	3870026	3.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.83E-06
645	395820.7	3869426	3.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.83E-06
573	395820.7	3869126	3.82E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.82E-06
657	395820.7	3869476	3.76E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.76E-06
838	396820.7	3870026	3.70E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.70E-06
669	395820.7	3869526	3.67E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.67E-06
826	396220.7	3870026	3.64E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.64E-06
561	395820.7	3869076	3.64E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.64E-06
780	395970.7	3869976	3.57E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.57E-06
681	395820.7	3869576	3.57E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.57E-06
798	396868.3	3869993	3.55E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.55E-06

875	396620.7	3870076	3.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.43E-06
876	396670.7	3870076	3.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.42E-06
693	395820.7	3869626	3.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.42E-06
874	396570.7	3870076	3.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.41E-06
825	396170.7	3870026	3.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.41E-06
873	396520.7	3870076	3.37E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.37E-06
877	396720.7	3870076	3.36E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.36E-06
872	396470.7	3870076	3.30E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-06
878	396770.7	3870076	3.25E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.25E-06
705	395820.7	3869676	3.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.24E-06
839	396870.7	3870026	3.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.23E-06
871	396420.7	3870076	3.21E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.21E-06
549	395820.7	3869026	3.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.18E-06
824	396120.7	3870026	3.12E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.12E-06
870	396370.7	3870076	3.10E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.10E-06
879	396820.7	3870076	3.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.06E-06
717	395820.7	3869726	3.04E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.04E-06
799	396918.3	3869993	3.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.02E-06
869	396320.7	3870076	2.96E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.96E-06
840	396920.7	3870026	2.81E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-06
880	396870.7	3870076	2.81E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-06
868	396270.7	3870076	2.81E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-06
823	396070.7	3870026	2.80E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.80E-06
729	395820.7	3869776	2.80E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.80E-06
917	396670.7	3870126	2.78E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.78E-06
916	396620.7	3870126	2.77E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.77E-06
918	396720.7	3870126	2.76E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.76E-06
915	396570.7	3870126	2.74E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.74E-06
919	396770.7	3870126	2.70E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.70E-06
914	396520.7	3870126	2.69E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-06
779	395920.7	3869976	2.66E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.66E-06
867	396220.7	3870076	2.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.63E-06
913	396470.7	3870126	2.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.63E-06
800	396968.3	3869993	2.61E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.61E-06
920	396820.7	3870126	2.59E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.59E-06
537	395820.7	3868976	2.58E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.58E-06
596	395770.7	3869226	2.58E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.58E-06
608	395770.7	3869276	2.57E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.57E-06
584	395770.7	3869176	2.56E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.56E-06
620	395770.7	3869326	2.55E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.55E-06
912	396420.7	3870126	2.54E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.54E-06
881	396920.7	3870076	2.54E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.54E-06
572	395770.7	3869126	2.52E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-06
632	395770.7	3869376	2.51E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.51E-06
741	395820.7	3869826	2.48E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-06
841	396970.7	3870026	2.47E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.47E-06
644	395770.7	3869426	2.46E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.46E-06
560	395770.7	3869076	2.44E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.44E-06
921	396870.7	3870126	2.44E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.44E-06
911	396370.7	3870126	2.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.43E-06

866	396170.7	3870076	2.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.42E-06
822	396020.7	3870026	2.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.42E-06
656	395770.7	3869476	2.40E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.40E-06
668	395770.7	3869526	2.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-06
958	396670.7	3870176	2.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-06
959	396720.7	3870176	2.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.31E-06
910	396320.7	3870126	2.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.31E-06
957	396620.7	3870176	2.30E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.30E-06
801	397018.3	3869993	2.29E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.29E-06
960	396770.7	3870176	2.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.28E-06
548	395770.7	3869026	2.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.28E-06
882	396970.7	3870076	2.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.28E-06
956	396570.7	3870176	2.27E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.27E-06
922	396920.7	3870126	2.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.26E-06
961	396820.7	3870176	2.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.23E-06
955	396520.7	3870176	2.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.22E-06
680	395770.7	3869576	2.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.20E-06
842	397020.7	3870026	2.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.19E-06
865	396120.7	3870076	2.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.18E-06
909	396270.7	3870126	2.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.17E-06
525	395820.7	3868926	2.16E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.16E-06
954	396470.7	3870176	2.15E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.15E-06
962	396870.7	3870176	2.14E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.14E-06
692	395770.7	3869626	2.09E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.09E-06
923	396970.7	3870126	2.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.07E-06
953	396420.7	3870176	2.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.06E-06
536	395770.7	3868976	2.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.06E-06
883	397020.7	3870076	2.05E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.05E-06
802	397068.3	3869993	2.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.02E-06
753	395820.7	3869876	2.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.02E-06
963	396920.7	3870176	2.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.02E-06
908	396220.7	3870126	2.00E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.00E-06
1000	396720.7	3870226	1.98E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.98E-06
999	396670.7	3870226	1.97E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.97E-06
1001	396770.7	3870226	1.97E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.97E-06
952	396370.7	3870176	1.97E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.97E-06
704	395770.7	3869676	1.96E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.96E-06
821	395970.7	3870026	1.96E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.96E-06
998	396620.7	3870226	1.95E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.95E-06
843	397070.7	3870026	1.95E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.95E-06
1002	396820.7	3870226	1.93E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.93E-06
864	396070.7	3870076	1.92E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.92E-06
583	395720.7	3869176	1.92E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.92E-06
595	395720.7	3869226	1.92E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.92E-06
997	396570.7	3870226	1.91E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.91E-06
571	395720.7	3869126	1.91E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.91E-06
607	395720.7	3869276	1.91E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.91E-06
924	397020.7	3870126	1.89E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.89E-06
619	395720.7	3869326	1.89E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.89E-06
964	396970.7	3870176	1.88E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.88E-06

1003	396870.7	3870226	1.88E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.88E-06
559	395720.7	3869076	1.87E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.87E-06
996	396520.7	3870226	1.86E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.86E-06
513	395820.7	3868876	1.86E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.86E-06
951	396320.7	3870176	1.85E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.85E-06
631	395720.7	3869376	1.84E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-06
884	397070.7	3870076	1.84E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-06
524	395770.7	3868926	1.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-06
907	396170.7	3870126	1.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-06
716	395770.7	3869726	1.81E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-06
1004	396920.7	3870226	1.80E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.80E-06
803	397118.3	3869993	1.80E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.80E-06
547	395720.7	3869026	1.80E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.80E-06
995	396470.7	3870226	1.79E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.79E-06
643	395720.7	3869426	1.79E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.79E-06
965	397020.7	3870176	1.75E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.75E-06
844	397120.7	3870026	1.74E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.74E-06
655	395720.7	3869476	1.73E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.73E-06
925	397070.7	3870126	1.73E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.73E-06
950	396270.7	3870176	1.72E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.72E-06
994	396420.7	3870226	1.71E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.71E-06
1042	396770.7	3870276	1.71E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.71E-06
1041	396720.7	3870276	1.71E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.71E-06
1005	396970.7	3870226	1.70E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.70E-06
1040	396670.7	3870276	1.70E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.70E-06
1043	396820.7	3870276	1.69E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.69E-06
535	395720.7	3868976	1.69E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.69E-06
1039	396620.7	3870276	1.67E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.67E-06
1044	396870.7	3870276	1.66E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.66E-06
885	397120.7	3870076	1.66E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.66E-06
667	395720.7	3869526	1.66E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.66E-06
906	396120.7	3870126	1.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-06
501	395820.7	3868826	1.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-06
1038	396570.7	3870276	1.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-06
512	395770.7	3868876	1.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-06
863	396020.7	3870076	1.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-06
993	396370.7	3870226	1.63E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-06
728	395770.7	3869776	1.62E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.62E-06
966	397070.7	3870176	1.61E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-06
804	397168.3	3869993	1.61E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-06
1045	396920.7	3870276	1.61E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-06
1006	397020.7	3870226	1.60E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.60E-06
949	396220.7	3870176	1.58E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-06
1037	396520.7	3870276	1.58E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-06
679	395720.7	3869576	1.57E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.57E-06
926	397120.7	3870126	1.57E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.57E-06
845	397170.7	3870026	1.57E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.57E-06
523	395720.7	3868926	1.56E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.56E-06
1046	396970.7	3870276	1.55E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-06
778	395870.7	3869976	1.53E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.53E-06

582	395670.7	3869176	1.53E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.53E-06
570	395670.7	3869126	1.52E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.52E-06
992	396320.7	3870226	1.52E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.52E-06
594	395670.7	3869226	1.52E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.52E-06
1036	396470.7	3870276	1.52E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.52E-06
558	395670.7	3869076	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
886	397170.7	3870076	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
1083	396770.7	3870326	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
1007	397070.7	3870226	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
606	395670.7	3869276	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
1084	396820.7	3870326	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
1082	396720.7	3870326	1.49E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-06
967	397120.7	3870176	1.48E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-06
1085	396870.7	3870326	1.48E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-06
691	395720.7	3869626	1.48E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-06
1081	396670.7	3870326	1.47E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-06
546	395670.7	3869026	1.47E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-06
1047	397020.7	3870276	1.47E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-06
618	395670.7	3869326	1.47E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-06
500	395770.7	3868826	1.46E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-06
489	395820.7	3868776	1.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-06
1086	396920.7	3870326	1.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-06
1035	396420.7	3870276	1.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-06
805	397218.3	3869993	1.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-06
1080	396620.7	3870326	1.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-06
927	397170.7	3870126	1.44E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.44E-06
948	396170.7	3870176	1.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.43E-06
820	395920.7	3870026	1.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.43E-06
630	395670.7	3869376	1.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.43E-06
511	395720.7	3868876	1.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.43E-06
905	396070.7	3870126	1.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.42E-06
534	395670.7	3868976	1.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.42E-06
846	397220.7	3870026	1.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-06
1079	396570.7	3870326	1.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-06
991	396270.7	3870226	1.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-06
1087	396970.7	3870326	1.40E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.40E-06
765	395820.7	3869926	1.39E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-06
1008	397120.7	3870226	1.39E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-06
740	395770.7	3869826	1.39E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-06
1048	397070.7	3870276	1.39E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-06
642	395670.7	3869426	1.38E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.38E-06
703	395720.7	3869676	1.37E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-06
968	397170.7	3870176	1.37E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-06
887	397220.7	3870076	1.36E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.36E-06
1034	396370.7	3870276	1.36E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.36E-06
1078	396520.7	3870326	1.36E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.36E-06
1088	397020.7	3870326	1.35E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.35E-06
522	395670.7	3868926	1.34E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.34E-06
1125	396820.7	3870376	1.33E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-06
654	395670.7	3869476	1.33E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-06

1124	396770.7	3870376	1.33E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-06
1126	396870.7	3870376	1.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.32E-06
488	395770.7	3868776	1.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.32E-06
1123	396720.7	3870376	1.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-06
928	397220.7	3870126	1.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-06
499	395720.7	3868826	1.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-06
806	397268.3	3869993	1.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-06
1049	397120.7	3870276	1.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-06
1127	396920.7	3870376	1.30E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.30E-06
1077	396470.7	3870326	1.30E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.30E-06
862	395970.7	3870076	1.30E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.30E-06
477	395820.7	3868726	1.30E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.30E-06
1009	397170.7	3870226	1.29E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.29E-06
1122	396670.7	3870376	1.29E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.29E-06
1089	397070.7	3870326	1.29E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.29E-06
990	396220.7	3870226	1.29E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.29E-06
847	397270.7	3870026	1.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-06
947	396120.7	3870176	1.27E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-06
1128	396970.7	3870376	1.27E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-06
1033	396320.7	3870276	1.27E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-06
666	395670.7	3869526	1.27E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-06
1121	396620.7	3870376	1.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-06
569	395620.7	3869126	1.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-06
969	397220.7	3870176	1.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-06
581	395620.7	3869176	1.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-06
557	395620.7	3869076	1.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-06
510	395670.7	3868876	1.25E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-06
593	395620.7	3869226	1.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-06
715	395720.7	3869726	1.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-06
888	397270.7	3870076	1.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-06
545	395620.7	3869026	1.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-06
1129	397020.7	3870376	1.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-06
1076	396420.7	3870326	1.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-06
1120	396570.7	3870376	1.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-06
1050	397170.7	3870276	1.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-06
605	395620.7	3869276	1.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-06
1090	397120.7	3870326	1.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-06
533	395620.7	3868976	1.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-06
929	397270.7	3870126	1.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-06
487	395720.7	3868776	1.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-06
1010	397220.7	3870226	1.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-06
476	395770.7	3868726	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
904	396020.7	3870126	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
678	395670.7	3869576	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
617	395620.7	3869326	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
1166	396820.7	3870426	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
1130	397070.7	3870376	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
1167	396870.7	3870426	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
1165	396770.7	3870426	1.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-06
1119	396520.7	3870376	1.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-06

1168	396920.7	3870426	1.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-06
465	395820.7	3868676	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
498	395670.7	3868826	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
1032	396270.7	3870276	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
1164	396720.7	3870426	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
521	395620.7	3868926	1.16E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-06
989	396170.7	3870226	1.16E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-06
970	397270.7	3870176	1.16E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-06
1169	396970.7	3870426	1.16E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-06
1075	396370.7	3870326	1.15E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.15E-06
629	395620.7	3869376	1.15E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.15E-06
1091	397170.7	3870326	1.15E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.15E-06
1051	397220.7	3870276	1.14E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-06
1163	396670.7	3870426	1.14E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-06
1131	397120.7	3870376	1.14E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-06
752	395770.7	3869876	1.13E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.13E-06
1170	397020.7	3870426	1.13E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.13E-06
1118	396470.7	3870376	1.12E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-06
1011	397270.7	3870226	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
1162	396620.7	3870426	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
509	395620.7	3868876	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
641	395620.7	3869426	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
690	395670.7	3869626	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
946	396070.7	3870176	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
475	395720.7	3868726	1.10E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-06
727	395720.7	3869776	1.10E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-06
1171	397070.7	3870426	1.10E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-06
486	395670.7	3868776	1.09E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-06
464	395770.7	3868676	1.08E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-06
1092	397220.7	3870326	1.08E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-06
1132	397170.7	3870376	1.08E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-06
1074	396320.7	3870326	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
1161	396570.7	3870426	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
1208	396870.7	3870476	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
1207	396820.7	3870476	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
453	395820.7	3868626	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
556	395570.7	3869076	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
1031	396220.7	3870276	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
1209	396920.7	3870476	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
568	395570.7	3869126	1.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-06
1052	397270.7	3870276	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
544	395570.7	3869026	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
653	395620.7	3869476	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
1117	396420.7	3870376	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
1172	397120.7	3870426	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
1206	396770.7	3870476	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
580	395570.7	3869176	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
1210	396970.7	3870476	1.05E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-06
497	395620.7	3868826	1.05E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-06
532	395570.7	3868976	1.04E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-06

1205	396720.7	3870476	1.04E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-06
592	395570.7	3869226	1.04E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-06
1211	397020.7	3870476	1.04E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-06
1160	396520.7	3870426	1.03E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-06
988	396120.7	3870226	1.03E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-06
1133	397220.7	3870376	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06
520	395570.7	3868926	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06
702	395670.7	3869676	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06
474	395670.7	3868726	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06
1093	397270.7	3870326	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06
604	395570.7	3869276	1.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-06
1173	397170.7	3870426	1.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-06
1204	396670.7	3870476	1.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-06
1212	397070.7	3870476	1.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-06
463	395720.7	3868676	1.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-06
861	395920.7	3870076	1.00E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.00E-06
665	395620.7	3869526	1.00E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.00E-06
819	395870.7	3870026	1.00E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.00E-06
452	395770.7	3868626	9.97E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.97E-07
1116	396370.7	3870376	9.93E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.93E-07
1073	396270.7	3870326	9.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.90E-07
485	395620.7	3868776	9.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.89E-07
616	395570.7	3869326	9.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.85E-07
1213	397120.7	3870476	9.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.85E-07
508	395570.7	3868876	9.83E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.83E-07
1203	396620.7	3870476	9.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.82E-07
1159	396470.7	3870426	9.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.77E-07
903	395970.7	3870126	9.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.74E-07
1249	396870.7	3870526	9.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.70E-07
1250	396920.7	3870526	9.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.69E-07
1134	397270.7	3870376	9.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.67E-07
1174	397220.7	3870426	9.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.66E-07
1248	396820.7	3870526	9.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.64E-07
1251	396970.7	3870526	9.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.63E-07
1030	396170.7	3870276	9.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.59E-07
1252	397020.7	3870526	9.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.52E-07
1247	396770.7	3870526	9.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.51E-07
1214	397170.7	3870476	9.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.51E-07
628	395570.7	3869376	9.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.48E-07
777	395820.7	3869976	9.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.45E-07
496	395570.7	3868826	9.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.44E-07
1202	396570.7	3870476	9.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.44E-07
739	395720.7	3869826	9.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.44E-07
462	395670.7	3868676	9.43E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.43E-07
451	395720.7	3868626	9.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.38E-07
1253	397070.7	3870526	9.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.36E-07
677	395620.7	3869576	9.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.35E-07
473	395620.7	3868726	9.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.33E-07
945	396020.7	3870176	9.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.32E-07
1246	396720.7	3870526	9.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.31E-07

1115	396320.7	3870376	9.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.22E-07
1158	396420.7	3870426	9.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.22E-07
555	395520.7	3869076	9.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.19E-07
1175	397270.7	3870426	9.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.19E-07
543	395520.7	3869026	9.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.19E-07
714	395670.7	3869726	9.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.17E-07
1254	397120.7	3870526	9.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.15E-07
567	395520.7	3869126	9.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.12E-07
1215	397220.7	3870476	9.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.12E-07
531	395520.7	3868976	9.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.11E-07
640	395570.7	3869426	9.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.07E-07
1245	396670.7	3870526	9.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.05E-07
1201	396520.7	3870476	9.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.04E-07
1072	396220.7	3870326	9.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.01E-07
484	395570.7	3868776	8.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.99E-07
579	395520.7	3869176	8.98E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.98E-07
519	395520.7	3868926	8.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.96E-07
1255	397170.7	3870526	8.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.89E-07
987	396070.7	3870226	8.88E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.88E-07
1291	396920.7	3870576	8.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.84E-07
1290	396870.7	3870576	8.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.82E-07
1292	396970.7	3870576	8.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.82E-07
591	395520.7	3869226	8.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.79E-07
764	395770.7	3869926	8.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.79E-07
450	395670.7	3868626	8.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.78E-07
461	395620.7	3868676	8.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.77E-07
507	395520.7	3868876	8.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.75E-07
1293	397020.7	3870576	8.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.75E-07
1289	396820.7	3870576	8.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.74E-07
1244	396620.7	3870526	8.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.72E-07
1216	397270.7	3870476	8.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.72E-07
689	395620.7	3869626	8.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.67E-07
1294	397070.7	3870576	8.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.65E-07
1157	396370.7	3870426	8.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.62E-07
652	395570.7	3869476	8.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.60E-07
1256	397220.7	3870526	8.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.59E-07
1200	396470.7	3870476	8.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.58E-07
1288	396770.7	3870576	8.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.57E-07
472	395570.7	3868726	8.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.54E-07
603	395520.7	3869276	8.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.52E-07
1029	396120.7	3870276	8.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.50E-07
1295	397120.7	3870576	8.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.50E-07
1114	396270.7	3870376	8.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.48E-07
495	395520.7	3868826	8.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.48E-07
1243	396570.7	3870526	8.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.38E-07
1287	396720.7	3870576	8.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.35E-07
1296	397170.7	3870576	8.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.31E-07
1257	397270.7	3870526	8.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.25E-07
449	395620.7	3868626	8.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.24E-07
615	395520.7	3869326	8.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.24E-07

483	395520.7	3868776	8.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.17E-07
726	395670.7	3869776	8.13E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.13E-07
664	395570.7	3869526	8.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.11E-07
460	395570.7	3868676	8.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.11E-07
1071	396170.7	3870326	8.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.11E-07
1333	396970.7	3870626	8.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.10E-07
1332	396920.7	3870626	8.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.09E-07
1286	396670.7	3870576	8.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.09E-07
1199	396420.7	3870476	8.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.08E-07
1297	397220.7	3870576	8.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.07E-07
1334	397020.7	3870626	8.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.06E-07
542	395470.7	3869026	8.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.04E-07
1331	396870.7	3870626	8.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.04E-07
530	395470.7	3868976	8.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.02E-07
1242	396520.7	3870526	8.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.01E-07
1335	397070.7	3870626	8.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.00E-07
1156	396320.7	3870426	8.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.00E-07
554	395470.7	3869076	7.97E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.97E-07
518	395470.7	3868926	7.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.95E-07
701	395620.7	3869676	7.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.94E-07
627	395520.7	3869376	7.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.92E-07
1330	396820.7	3870626	7.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.92E-07
1336	397120.7	3870626	7.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.90E-07
751	395720.7	3869876	7.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.90E-07
566	395470.7	3869126	7.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.87E-07
902	395920.7	3870126	7.86E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.86E-07
471	395520.7	3868726	7.83E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.83E-07
506	395470.7	3868876	7.83E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.83E-07
1298	397270.7	3870576	7.81E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.81E-07
1285	396620.7	3870576	7.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.80E-07
944	395970.7	3870176	7.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.80E-07
1337	397170.7	3870626	7.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.76E-07
1329	396770.7	3870626	7.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.75E-07
860	395870.7	3870076	7.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.74E-07
1113	396220.7	3870376	7.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.72E-07
578	395470.7	3869176	7.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.71E-07
448	395570.7	3868626	7.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.69E-07
494	395470.7	3868826	7.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.66E-07
986	396020.7	3870226	7.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.63E-07
1241	396470.7	3870526	7.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.59E-07
676	395570.7	3869576	7.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.59E-07
1338	397220.7	3870626	7.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.58E-07
639	395520.7	3869426	7.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.56E-07
1198	396370.7	3870476	7.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.55E-07
1328	396720.7	3870626	7.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.54E-07
590	395470.7	3869226	7.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.52E-07
459	395520.7	3868676	7.49E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.49E-07
1284	396570.7	3870576	7.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.48E-07
482	395470.7	3868776	7.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.44E-07
1028	396070.7	3870276	7.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.41E-07

818	395820.7	3870026	7.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.39E-07
1339	397270.7	3870626	7.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.37E-07
1155	396270.7	3870426	7.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.35E-07
602	395470.7	3869276	7.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.29E-07
1327	396670.7	3870626	7.28E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.28E-07
470	395470.7	3868726	7.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.18E-07
1070	396120.7	3870326	7.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.17E-07
651	395520.7	3869476	7.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.17E-07
713	395620.7	3869726	7.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.17E-07
447	395520.7	3868626	7.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.15E-07
1240	396420.7	3870526	7.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.14E-07
1283	396520.7	3870576	7.13E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.13E-07
529	395420.7	3868976	7.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.08E-07
738	395670.7	3869826	7.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.06E-07
517	395420.7	3868926	7.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.06E-07
541	395420.7	3869026	7.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.06E-07
614	395470.7	3869326	7.03E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.03E-07
688	395570.7	3869626	7.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.02E-07
505	395420.7	3868876	7.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.00E-07
1326	396620.7	3870626	7.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.00E-07
1197	396320.7	3870476	6.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-07
553	395420.7	3869076	6.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-07
1112	396170.7	3870376	6.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.94E-07
776	395770.7	3869976	6.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.94E-07
493	395420.7	3868826	6.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.91E-07
458	395470.7	3868676	6.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.91E-07
565	395420.7	3869126	6.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.87E-07
481	395420.7	3868776	6.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.77E-07
663	395520.7	3869526	6.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.74E-07
626	395470.7	3869376	6.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.74E-07
1282	396470.7	3870576	6.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.73E-07
577	395420.7	3869176	6.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.71E-07
1154	396220.7	3870426	6.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.69E-07
1325	396570.7	3870626	6.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.68E-07
446	395470.7	3868626	6.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.65E-07
1239	396370.7	3870526	6.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.64E-07
469	395420.7	3868726	6.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.60E-07
763	395720.7	3869926	6.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.53E-07
589	395420.7	3869226	6.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.52E-07
985	395970.7	3870226	6.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.50E-07
943	395920.7	3870176	6.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.48E-07
1027	396020.7	3870276	6.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.44E-07
700	395570.7	3869676	6.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.42E-07
1196	396270.7	3870476	6.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.42E-07
638	395470.7	3869426	6.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.41E-07
457	395420.7	3868676	6.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.39E-07
725	395620.7	3869776	6.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.37E-07
1324	396520.7	3870626	6.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.36E-07
901	395870.7	3870126	6.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.35E-07
1069	396070.7	3870326	6.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.34E-07

1281	396420.7	3870576	6.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.33E-07
516	395370.7	3868926	6.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.33E-07
528	395370.7	3868976	6.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.31E-07
504	395370.7	3868876	6.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.31E-07
601	395420.7	3869276	6.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.30E-07
675	395520.7	3869576	6.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.29E-07
540	395370.7	3869026	6.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.26E-07
492	395370.7	3868826	6.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.26E-07
1111	396120.7	3870376	6.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.21E-07
552	395370.7	3869076	6.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.18E-07
480	395370.7	3868776	6.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.18E-07
445	395420.7	3868626	6.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.16E-07
1238	396320.7	3870526	6.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.16E-07
859	395820.7	3870076	6.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.12E-07
650	395470.7	3869476	6.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.07E-07
750	395670.7	3869876	6.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.07E-07
613	395420.7	3869326	6.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.06E-07
564	395370.7	3869126	6.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.06E-07
468	395370.7	3868726	6.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.05E-07
1153	396170.7	3870426	6.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.05E-07
1323	396470.7	3870626	6.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.02E-07
1280	396370.7	3870576	5.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.91E-07
456	395370.7	3868676	5.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.91E-07
576	395370.7	3869176	5.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.90E-07
1195	396220.7	3870476	5.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.87E-07
687	395520.7	3869626	5.81E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.81E-07
712	395570.7	3869726	5.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.80E-07
625	395420.7	3869376	5.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.78E-07
817	395770.7	3870026	5.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.77E-07
444	395370.7	3868626	5.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-07
503	395320.7	3868876	5.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.71E-07
588	395370.7	3869226	5.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.70E-07
662	395470.7	3869526	5.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.70E-07
515	395320.7	3868926	5.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.69E-07
491	395320.7	3868826	5.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.69E-07
1237	396270.7	3870526	5.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.68E-07
1322	396420.7	3870626	5.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.66E-07
527	395320.7	3868976	5.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.66E-07
479	395320.7	3868776	5.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.65E-07
737	395620.7	3869826	5.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.61E-07
539	395320.7	3869026	5.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.59E-07
1026	395970.7	3870276	5.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.57E-07
467	395320.7	3868726	5.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.57E-07
1068	396020.7	3870326	5.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.57E-07
1110	396070.7	3870376	5.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.53E-07
984	395920.7	3870226	5.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.53E-07
551	395320.7	3869076	5.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.50E-07
637	395420.7	3869426	5.49E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.49E-07
1279	396320.7	3870576	5.49E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.49E-07
600	395370.7	3869276	5.49E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.49E-07

775	395720.7	3869976	5.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.46E-07
455	395320.7	3868676	5.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.46E-07
1152	396120.7	3870426	5.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.45E-07
942	395870.7	3870176	5.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.40E-07
563	395320.7	3869126	5.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.37E-07
1194	396170.7	3870476	5.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.35E-07
443	395320.7	3868626	5.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.33E-07
699	395520.7	3869676	5.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.32E-07
674	395470.7	3869576	5.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.30E-07
1321	396370.7	3870626	5.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.29E-07
612	395370.7	3869326	5.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.25E-07
575	395320.7	3869176	5.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.22E-07
900	395820.7	3870126	5.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.22E-07
1236	396220.7	3870526	5.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.22E-07
724	395570.7	3869776	5.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.19E-07
762	395670.7	3869926	5.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.19E-07
649	395420.7	3869476	5.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.18E-07
490	395270.7	3868826	5.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.17E-07
502	395270.7	3868876	5.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.16E-07
478	395270.7	3868776	5.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.16E-07
514	395270.7	3868926	5.13E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.13E-07
466	395270.7	3868726	5.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.12E-07
1278	396270.7	3870576	5.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.08E-07
526	395270.7	3868976	5.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.08E-07
454	395270.7	3868676	5.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.06E-07
587	395320.7	3869226	5.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.02E-07
624	395370.7	3869376	5.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.02E-07
538	395270.7	3869026	5.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.00E-07
442	395270.7	3868626	4.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.96E-07
858	395770.7	3870076	4.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.96E-07
1320	396320.7	3870626	4.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.92E-07
550	395270.7	3869076	4.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.91E-07
749	395620.7	3869876	4.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.90E-07
1109	396020.7	3870376	4.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.90E-07
1151	396070.7	3870426	4.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.90E-07
686	395470.7	3869626	4.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.87E-07
1067	395970.7	3870326	4.86E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.86E-07
1193	396120.7	3870476	4.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.85E-07
661	395420.7	3869526	4.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.85E-07
599	395320.7	3869276	4.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.82E-07
711	395520.7	3869726	4.81E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.81E-07
562	395270.7	3869126	4.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.78E-07
1025	395920.7	3870276	4.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.78E-07
1235	396170.7	3870526	4.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.78E-07
636	395370.7	3869426	4.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.76E-07
983	395870.7	3870226	4.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.70E-07
816	395720.7	3870026	4.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.70E-07
1277	396220.7	3870576	4.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.67E-07
574	395270.7	3869176	4.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.64E-07
736	395570.7	3869826	4.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.62E-07

611	395320.7	3869326	4.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.61E-07
941	395820.7	3870176	4.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.57E-07
1319	396270.7	3870626	4.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-07
673	395420.7	3869576	4.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.51E-07
648	395370.7	3869476	4.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.48E-07
774	395670.7	3869976	4.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.48E-07
586	395270.7	3869226	4.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.47E-07
698	395470.7	3869676	4.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.47E-07
623	395320.7	3869376	4.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.39E-07
1192	396070.7	3870476	4.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.38E-07
899	395770.7	3870126	4.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.37E-07
1150	396020.7	3870426	4.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.36E-07
1234	396120.7	3870526	4.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.36E-07
723	395520.7	3869776	4.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.33E-07
1108	395970.7	3870376	4.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.30E-07
1276	396170.7	3870576	4.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.30E-07
761	395620.7	3869926	4.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.29E-07
598	395270.7	3869276	4.28E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.28E-07
1066	395920.7	3870326	4.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.24E-07
1318	396220.7	3870626	4.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.23E-07
660	395370.7	3869526	4.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.19E-07
685	395420.7	3869626	4.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.17E-07
1024	395870.7	3870276	4.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.16E-07
635	395320.7	3869426	4.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.16E-07
857	395720.7	3870076	4.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.15E-07
748	395570.7	3869876	4.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.10E-07
610	395270.7	3869326	4.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-07
710	395470.7	3869726	4.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-07
982	395820.7	3870226	4.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.06E-07
815	395670.7	3870026	3.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.96E-07
1233	396070.7	3870526	3.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.95E-07
1275	396120.7	3870576	3.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.94E-07
1191	396020.7	3870476	3.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.92E-07
647	395320.7	3869476	3.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.91E-07
735	395520.7	3869826	3.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.91E-07
1317	396170.7	3870626	3.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.91E-07
940	395770.7	3870176	3.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.91E-07
672	395370.7	3869576	3.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.90E-07
622	395270.7	3869376	3.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.87E-07
1149	395970.7	3870426	3.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.87E-07
697	395420.7	3869676	3.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.84E-07
1107	395920.7	3870376	3.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.80E-07
773	395620.7	3869976	3.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.80E-07
1065	395870.7	3870326	3.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.73E-07
898	395720.7	3870126	3.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.72E-07
722	395470.7	3869776	3.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.72E-07
659	395320.7	3869526	3.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.66E-07
760	395570.7	3869926	3.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.66E-07
634	395270.7	3869426	3.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.65E-07
1023	395820.7	3870276	3.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.65E-07

684	395370.7	3869626	3.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.61E-07
1316	396120.7	3870626	3.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.60E-07
1274	396070.7	3870576	3.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.60E-07
1232	396020.7	3870526	3.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.57E-07
856	395670.7	3870076	3.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.55E-07
709	395420.7	3869726	3.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-07
981	395770.7	3870226	3.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-07
747	395520.7	3869876	3.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-07
1190	395970.7	3870476	3.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.52E-07
1148	395920.7	3870426	3.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.45E-07
646	395270.7	3869476	3.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.44E-07
671	395320.7	3869576	3.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.41E-07
814	395620.7	3870026	3.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.41E-07
734	395470.7	3869826	3.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.39E-07
1106	395870.7	3870376	3.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.38E-07
939	395720.7	3870176	3.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.37E-07
696	395370.7	3869676	3.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.35E-07
1064	395820.7	3870326	3.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.31E-07
1315	396070.7	3870626	3.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-07
772	395570.7	3869976	3.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.29E-07
1273	396020.7	3870576	3.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.27E-07
721	395420.7	3869776	3.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.25E-07
658	395270.7	3869526	3.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.22E-07
1231	395970.7	3870526	3.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.22E-07
1022	395770.7	3870276	3.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.21E-07
897	395670.7	3870126	3.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.21E-07
759	395520.7	3869926	3.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.19E-07
683	395320.7	3869626	3.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.18E-07
1189	395920.7	3870476	3.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.15E-07
708	395370.7	3869726	3.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.10E-07
855	395620.7	3870076	3.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.10E-07
746	395470.7	3869876	3.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.09E-07
1147	395870.7	3870426	3.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.09E-07
980	395720.7	3870226	3.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.06E-07
1105	395820.7	3870376	3.03E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.03E-07
1314	396020.7	3870626	3.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-07
670	395270.7	3869576	3.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-07
813	395570.7	3870026	2.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.99E-07
733	395420.7	3869826	2.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.99E-07
1272	395970.7	3870576	2.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.96E-07
695	395320.7	3869676	2.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.96E-07
1063	395770.7	3870326	2.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.94E-07
938	395670.7	3870176	2.93E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.93E-07
1230	395920.7	3870526	2.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.91E-07
771	395520.7	3869976	2.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.90E-07
720	395370.7	3869776	2.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.87E-07
1188	395870.7	3870476	2.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.84E-07
758	395470.7	3869926	2.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.82E-07
1021	395720.7	3870276	2.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.82E-07
896	395620.7	3870126	2.81E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-07

682	395270.7	3869626	2.81E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-07
1146	395820.7	3870426	2.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.78E-07
707	395320.7	3869726	2.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.76E-07
1313	395970.7	3870626	2.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.74E-07
745	395420.7	3869876	2.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.74E-07
854	395570.7	3870076	2.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.72E-07
1104	395770.7	3870376	2.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.71E-07
979	395670.7	3870226	2.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.70E-07
1271	395920.7	3870576	2.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-07
732	395370.7	3869826	2.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.66E-07
812	395520.7	3870026	2.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.65E-07
694	395270.7	3869676	2.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.63E-07
1229	395870.7	3870526	2.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.63E-07
1062	395720.7	3870326	2.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.60E-07
937	395620.7	3870176	2.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.59E-07
770	395470.7	3869976	2.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.58E-07
1187	395820.7	3870476	2.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.57E-07
719	395320.7	3869776	2.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.56E-07
757	395420.7	3869926	2.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.51E-07
895	395570.7	3870126	2.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.51E-07
1145	395770.7	3870426	2.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.51E-07
1020	395670.7	3870276	2.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.50E-07
1312	395920.7	3870626	2.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.50E-07
706	395270.7	3869726	2.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-07
744	395370.7	3869876	2.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.45E-07
1270	395870.7	3870576	2.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.45E-07
853	395520.7	3870076	2.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.44E-07
1103	395720.7	3870376	2.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.42E-07
978	395620.7	3870226	2.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.41E-07
1228	395820.7	3870526	2.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.40E-07
731	395320.7	3869826	2.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.39E-07
811	395470.7	3870026	2.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.37E-07
1186	395770.7	3870476	2.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.34E-07
1061	395670.7	3870326	2.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-07
936	395570.7	3870176	2.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-07
718	395270.7	3869776	2.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-07
769	395420.7	3869976	2.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-07
1311	395870.7	3870626	2.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.29E-07
756	395370.7	3869926	2.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.27E-07
894	395520.7	3870126	2.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.26E-07
1144	395720.7	3870426	2.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.26E-07
1269	395820.7	3870576	2.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.25E-07
1019	395620.7	3870276	2.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.24E-07
743	395320.7	3869876	2.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.22E-07
852	395470.7	3870076	2.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.21E-07
1227	395770.7	3870526	2.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.19E-07
730	395270.7	3869826	2.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.17E-07
810	395420.7	3870026	2.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.15E-07
1102	395670.7	3870376	2.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.12E-07
977	395570.7	3870226	2.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.11E-07

768	395370.7	3869976	2.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.11E-07
1185	395720.7	3870476	2.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.07E-07
755	395320.7	3869926	2.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.07E-07
1268	395770.7	3870576	2.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.07E-07
935	395520.7	3870176	2.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.05E-07
1310	395820.7	3870626	2.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.05E-07
1060	395620.7	3870326	2.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.04E-07
742	395270.7	3869876	2.03E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.03E-07
893	395470.7	3870126	2.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.01E-07
1143	395670.7	3870426	1.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.99E-07
1018	395570.7	3870276	1.97E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.97E-07
851	395420.7	3870076	1.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.96E-07
1226	395720.7	3870526	1.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.95E-07
809	395370.7	3870026	1.93E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.93E-07
976	395520.7	3870226	1.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.90E-07
767	395320.7	3869976	1.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.90E-07
1101	395620.7	3870376	1.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.90E-07
1309	395770.7	3870626	1.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.89E-07
754	395270.7	3869926	1.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.87E-07
934	395470.7	3870176	1.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.87E-07
1184	395670.7	3870476	1.86E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.86E-07
1267	395720.7	3870576	1.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-07
892	395420.7	3870126	1.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-07
1059	395570.7	3870326	1.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-07
850	395370.7	3870076	1.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.80E-07
1142	395620.7	3870426	1.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.78E-07
1017	395520.7	3870276	1.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.78E-07
808	395320.7	3870026	1.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.77E-07
1225	395670.7	3870526	1.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.77E-07
1308	395720.7	3870626	1.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.75E-07
766	395270.7	3869976	1.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.75E-07
975	395470.7	3870226	1.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.74E-07
1100	395570.7	3870376	1.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.73E-07
933	395420.7	3870176	1.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.73E-07
891	395370.7	3870126	1.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.70E-07
1183	395620.7	3870476	1.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.69E-07
1266	395670.7	3870576	1.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.68E-07
1058	395520.7	3870326	1.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.68E-07
849	395320.7	3870076	1.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.66E-07
807	395270.7	3870026	1.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.64E-07
1016	395470.7	3870276	1.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.64E-07
1141	395570.7	3870426	1.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-07
974	395420.7	3870226	1.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.62E-07
1307	395670.7	3870626	1.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-07
932	395370.7	3870176	1.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.60E-07
1224	395620.7	3870526	1.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.60E-07
1099	395520.7	3870376	1.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-07
890	395320.7	3870126	1.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-07
848	395270.7	3870076	1.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-07
1057	395470.7	3870326	1.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-07

1182	395570.7	3870476	1.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.54E-07
1265	395620.7	3870576	1.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.53E-07
1015	395420.7	3870276	1.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-07
973	395370.7	3870226	1.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-07
1140	395520.7	3870426	1.49E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-07
931	395320.7	3870176	1.49E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-07
1306	395620.7	3870626	1.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-07
889	395270.7	3870126	1.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-07
1223	395570.7	3870526	1.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-07
1098	395470.7	3870376	1.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-07
1056	395420.7	3870326	1.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.42E-07
1014	395370.7	3870276	1.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-07
972	395320.7	3870226	1.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-07
1181	395520.7	3870476	1.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.40E-07
930	395270.7	3870176	1.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-07
1264	395570.7	3870576	1.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-07
1139	395470.7	3870426	1.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-07
1097	395420.7	3870376	1.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.34E-07
1222	395520.7	3870526	1.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-07
1305	395570.7	3870626	1.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-07
1013	395320.7	3870276	1.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-07
1055	395370.7	3870326	1.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-07
971	395270.7	3870226	1.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-07
1180	395470.7	3870476	1.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.30E-07
1138	395420.7	3870426	1.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-07
1263	395520.7	3870576	1.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-07
1096	395370.7	3870376	1.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-07
1012	395270.7	3870276	1.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-07
1054	395320.7	3870326	1.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-07
1221	395470.7	3870526	1.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-07
1304	395520.7	3870626	1.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-07
1179	395420.7	3870476	1.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.21E-07
1137	395370.7	3870426	1.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-07
1262	395470.7	3870576	1.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-07
1053	395270.7	3870326	1.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-07
1095	395320.7	3870376	1.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-07
1220	395420.7	3870526	1.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-07
1178	395370.7	3870476	1.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-07
1303	395470.7	3870626	1.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-07
1136	395320.7	3870426	1.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-07
1094	395270.7	3870376	1.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-07
1261	395420.7	3870576	1.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-07
1219	395370.7	3870526	1.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-07
1177	395320.7	3870476	1.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-07
1302	395420.7	3870626	1.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-07
1135	395270.7	3870426	1.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-07
1260	395370.7	3870576	1.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-07
1218	395320.7	3870526	9.99E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.99E-08
1176	395270.7	3870476	9.92E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.92E-08
1301	395370.7	3870626	9.80E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.80E-08

1259	395320.7	3870576	9.57E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.57E-08
1217	395270.7	3870526	9.45E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.45E-08
1300	395320.7	3870626	9.18E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.18E-08
1258	395270.7	3870576	9.04E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.04E-08
1299	395270.7	3870626	8.68E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.68E-08

Edwards AFB Solar Facility Project - Construction HRA - Mitigated Cancer Health Risk

**HARP 2 - Air Dispersion Modeling and Risk Tool v17320

**2/7/2018

** Cancer Risk Results of All Discrete Sensitive Receptor Points Are Shown - Descending From Maximum to Minimum

REC	X	Y	RISK_SUM	SCENARIO	INH_RISK
792	396570.7	3869976	4.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.20E-06
790	396470.7	3869976	4.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.18E-06
791	396520.7	3869976	4.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.18E-06
793	396620.7	3869976	4.16E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.16E-06
789	396420.7	3869976	4.13E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.13E-06
788	396370.7	3869976	4.05E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.05E-06
787	396320.7	3869976	3.96E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.96E-06
786	396270.7	3869976	3.84E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.84E-06
794	396668.3	3869988	3.68E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.68E-06
785	396220.7	3869976	3.68E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.68E-06
795	396718.3	3869988	3.58E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.58E-06
784	396170.7	3869976	3.52E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.52E-06
796	396768.3	3869988	3.36E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.36E-06
783	396120.7	3869976	3.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.32E-06
782	396070.7	3869976	3.04E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.04E-06
834	396620.7	3870026	2.89E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.89E-06
833	396570.7	3870026	2.89E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.89E-06
832	396520.7	3870026	2.88E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.88E-06
835	396670.7	3870026	2.86E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.86E-06
797	396818.3	3869988	2.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.83E-06
831	396470.7	3870026	2.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.83E-06
836	396720.7	3870026	2.81E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-06
830	396420.7	3870026	2.77E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.77E-06
781	396020.7	3869976	2.73E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.73E-06
829	396370.7	3870026	2.70E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.70E-06
837	396770.7	3870026	2.67E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.67E-06
828	396320.7	3870026	2.61E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.61E-06
609	395820.7	3869276	2.56E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.56E-06
597	395820.7	3869226	2.55E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.55E-06
621	395820.7	3869326	2.55E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.55E-06
633	395820.7	3869376	2.53E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.53E-06
585	395820.7	3869176	2.53E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.53E-06
827	396270.7	3870026	2.49E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.49E-06
645	395820.7	3869426	2.49E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.49E-06
573	395820.7	3869126	2.49E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.49E-06
657	395820.7	3869476	2.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.45E-06
838	396820.7	3870026	2.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.41E-06
669	395820.7	3869526	2.39E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.39E-06
826	396220.7	3870026	2.37E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.37E-06
561	395820.7	3869076	2.37E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.37E-06
780	395970.7	3869976	2.33E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.33E-06
681	395820.7	3869576	2.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-06

798	396868.3	3869993	2.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.31E-06
875	396620.7	3870076	2.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.24E-06
876	396670.7	3870076	2.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.23E-06
693	395820.7	3869626	2.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.23E-06
874	396570.7	3870076	2.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.22E-06
825	396170.7	3870026	2.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.22E-06
873	396520.7	3870076	2.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.19E-06
877	396720.7	3870076	2.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.19E-06
872	396470.7	3870076	2.15E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.15E-06
878	396770.7	3870076	2.12E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.12E-06
705	395820.7	3869676	2.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.11E-06
839	396870.7	3870026	2.10E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.10E-06
871	396420.7	3870076	2.09E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.09E-06
549	395820.7	3869026	2.07E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.07E-06
824	396120.7	3870026	2.03E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.03E-06
870	396370.7	3870076	2.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.02E-06
879	396820.7	3870076	2.00E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.00E-06
717	395820.7	3869726	1.98E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.98E-06
799	396918.3	3869993	1.97E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.97E-06
869	396320.7	3870076	1.93E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.93E-06
840	396920.7	3870026	1.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-06
880	396870.7	3870076	1.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-06
868	396270.7	3870076	1.83E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-06
823	396070.7	3870026	1.82E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.82E-06
729	395820.7	3869776	1.82E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.82E-06
917	396670.7	3870126	1.81E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-06
916	396620.7	3870126	1.81E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-06
918	396720.7	3870126	1.80E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.80E-06
915	396570.7	3870126	1.79E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.79E-06
919	396770.7	3870126	1.76E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.76E-06
914	396520.7	3870126	1.76E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.76E-06
779	395920.7	3869976	1.73E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.73E-06
867	396220.7	3870076	1.72E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.72E-06
913	396470.7	3870126	1.71E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.71E-06
800	396968.3	3869993	1.70E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.70E-06
920	396820.7	3870126	1.69E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.69E-06
537	395820.7	3868976	1.68E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.68E-06
596	395770.7	3869226	1.68E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.68E-06
608	395770.7	3869276	1.67E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.67E-06
584	395770.7	3869176	1.67E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.67E-06
620	395770.7	3869326	1.66E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.66E-06
912	396420.7	3870126	1.65E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.65E-06
881	396920.7	3870076	1.65E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.65E-06
572	395770.7	3869126	1.64E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.64E-06
632	395770.7	3869376	1.64E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.64E-06
741	395820.7	3869826	1.62E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.62E-06
841	396970.7	3870026	1.61E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-06
644	395770.7	3869426	1.60E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.60E-06
560	395770.7	3869076	1.59E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.59E-06

921	396870.7	3870126	1.59E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.59E-06
911	396370.7	3870126	1.58E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-06
866	396170.7	3870076	1.58E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-06
822	396020.7	3870026	1.57E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.57E-06
656	395770.7	3869476	1.56E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.56E-06
668	395770.7	3869526	1.51E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-06
958	396670.7	3870176	1.51E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-06
959	396720.7	3870176	1.51E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-06
910	396320.7	3870126	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
957	396620.7	3870176	1.50E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-06
801	397018.3	3869993	1.49E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-06
960	396770.7	3870176	1.49E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-06
548	395770.7	3869026	1.49E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-06
882	396970.7	3870076	1.48E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-06
956	396570.7	3870176	1.48E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-06
922	396920.7	3870126	1.47E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-06
961	396820.7	3870176	1.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-06
955	396520.7	3870176	1.45E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-06
680	395770.7	3869576	1.44E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.44E-06
842	397020.7	3870026	1.43E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.43E-06
865	396120.7	3870076	1.42E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.42E-06
909	396270.7	3870126	1.41E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-06
525	395820.7	3868926	1.40E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.40E-06
954	396470.7	3870176	1.40E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.40E-06
962	396870.7	3870176	1.39E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-06
692	395770.7	3869626	1.36E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.36E-06
923	396970.7	3870126	1.35E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.35E-06
953	396420.7	3870176	1.34E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.34E-06
536	395770.7	3868976	1.34E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.34E-06
883	397020.7	3870076	1.33E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-06
802	397068.3	3869993	1.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.32E-06
753	395820.7	3869876	1.32E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.32E-06
963	396920.7	3870176	1.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-06
908	396220.7	3870126	1.31E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-06
1000	396720.7	3870226	1.29E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.29E-06
999	396670.7	3870226	1.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-06
1001	396770.7	3870226	1.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-06
952	396370.7	3870176	1.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-06
704	395770.7	3869676	1.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-06
821	395970.7	3870026	1.28E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-06
998	396620.7	3870226	1.27E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-06
843	397070.7	3870026	1.27E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-06
1002	396820.7	3870226	1.26E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-06
864	396070.7	3870076	1.25E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-06
583	395720.7	3869176	1.25E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-06
595	395720.7	3869226	1.25E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-06
997	396570.7	3870226	1.25E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-06
571	395720.7	3869126	1.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-06
607	395720.7	3869276	1.24E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-06

924	397020.7	3870126	1.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-06
619	395720.7	3869326	1.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-06
964	396970.7	3870176	1.23E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-06
1003	396870.7	3870226	1.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-06
559	395720.7	3869076	1.22E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-06
996	396520.7	3870226	1.21E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.21E-06
513	395820.7	3868876	1.21E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.21E-06
951	396320.7	3870176	1.21E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.21E-06
631	395720.7	3869376	1.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-06
884	397070.7	3870076	1.20E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-06
524	395770.7	3868926	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
907	396170.7	3870126	1.19E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-06
716	395770.7	3869726	1.18E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-06
1004	396920.7	3870226	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
803	397118.3	3869993	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
547	395720.7	3869026	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
995	396470.7	3870226	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
643	395720.7	3869426	1.17E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-06
965	397020.7	3870176	1.14E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-06
844	397120.7	3870026	1.13E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.13E-06
655	395720.7	3869476	1.13E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.13E-06
925	397070.7	3870126	1.12E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-06
950	396270.7	3870176	1.12E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-06
994	396420.7	3870226	1.12E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-06
1042	396770.7	3870276	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
1041	396720.7	3870276	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
1005	396970.7	3870226	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
1040	396670.7	3870276	1.11E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-06
1043	396820.7	3870276	1.10E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-06
535	395720.7	3868976	1.10E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-06
1039	396620.7	3870276	1.09E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-06
1044	396870.7	3870276	1.08E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-06
885	397120.7	3870076	1.08E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-06
667	395720.7	3869526	1.08E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-06
906	396120.7	3870126	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
501	395820.7	3868826	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
1038	396570.7	3870276	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
512	395770.7	3868876	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
863	396020.7	3870076	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
993	396370.7	3870226	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
728	395770.7	3869776	1.06E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-06
966	397070.7	3870176	1.05E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-06
804	397168.3	3869993	1.05E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-06
1045	396920.7	3870276	1.05E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-06
1006	397020.7	3870226	1.04E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-06
949	396220.7	3870176	1.03E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-06
1037	396520.7	3870276	1.03E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-06
679	395720.7	3869576	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06
926	397120.7	3870126	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06

845	397170.7	3870026	1.02E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-06
523	395720.7	3868926	1.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-06
1046	396970.7	3870276	1.01E-06	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-06
778	395870.7	3869976	9.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.95E-07
582	395670.7	3869176	9.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.95E-07
570	395670.7	3869126	9.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.92E-07
992	396320.7	3870226	9.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.90E-07
594	395670.7	3869226	9.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.89E-07
1036	396470.7	3870276	9.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.89E-07
558	395670.7	3869076	9.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.80E-07
886	397170.7	3870076	9.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.79E-07
1083	396770.7	3870326	9.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.78E-07
1007	397070.7	3870226	9.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.76E-07
606	395670.7	3869276	9.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.76E-07
1084	396820.7	3870326	9.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.75E-07
1082	396720.7	3870326	9.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.72E-07
967	397120.7	3870176	9.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.66E-07
1085	396870.7	3870326	9.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.63E-07
691	395720.7	3869626	9.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.62E-07
1081	396670.7	3870326	9.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.60E-07
546	395670.7	3869026	9.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.59E-07
1047	397020.7	3870276	9.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.58E-07
618	395670.7	3869326	9.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.57E-07
500	395770.7	3868826	9.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.51E-07
489	395820.7	3868776	9.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.44E-07
1086	396920.7	3870326	9.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-07
1035	396420.7	3870276	9.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-07
805	397218.3	3869993	9.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-07
1080	396620.7	3870326	9.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-07
927	397170.7	3870126	9.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.35E-07
948	396170.7	3870176	9.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.34E-07
820	395920.7	3870026	9.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.33E-07
630	395670.7	3869376	9.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.32E-07
511	395720.7	3868876	9.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.30E-07
905	396070.7	3870126	9.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.26E-07
534	395670.7	3868976	9.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.22E-07
846	397220.7	3870026	9.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.19E-07
1079	396570.7	3870326	9.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.17E-07
991	396270.7	3870226	9.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.16E-07
1087	396970.7	3870326	9.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.14E-07
765	395820.7	3869926	9.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.08E-07
1008	397120.7	3870226	9.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.07E-07
740	395770.7	3869826	9.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.06E-07
1048	397070.7	3870276	9.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.05E-07
642	395670.7	3869426	9.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.02E-07
703	395720.7	3869676	8.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.91E-07
968	397170.7	3870176	8.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.90E-07
887	397220.7	3870076	8.88E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.88E-07
1034	396370.7	3870276	8.86E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.86E-07

1078	396520.7	3870326	8.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.85E-07
1088	397020.7	3870326	8.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.79E-07
522	395670.7	3868926	8.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.73E-07
1125	396820.7	3870376	8.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.67E-07
654	395670.7	3869476	8.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.66E-07
1124	396770.7	3870376	8.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.65E-07
1126	396870.7	3870376	8.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.61E-07
488	395770.7	3868776	8.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.60E-07
1123	396720.7	3870376	8.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.56E-07
928	397220.7	3870126	8.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.55E-07
499	395720.7	3868826	8.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.52E-07
806	397268.3	3869993	8.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.50E-07
1049	397120.7	3870276	8.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.50E-07
1127	396920.7	3870376	8.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.47E-07
1077	396470.7	3870326	8.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.47E-07
862	395970.7	3870076	8.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.46E-07
477	395820.7	3868726	8.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.46E-07
1009	397170.7	3870226	8.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.42E-07
1122	396670.7	3870376	8.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.42E-07
1089	397070.7	3870326	8.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.38E-07
990	396220.7	3870226	8.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.38E-07
847	397270.7	3870026	8.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.32E-07
947	396120.7	3870176	8.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.30E-07
1128	396970.7	3870376	8.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.29E-07
1033	396320.7	3870276	8.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.26E-07
666	395670.7	3869526	8.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.25E-07
1121	396620.7	3870376	8.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.22E-07
569	395620.7	3869126	8.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.22E-07
969	397220.7	3870176	8.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.19E-07
581	395620.7	3869176	8.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.19E-07
557	395620.7	3869076	8.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.18E-07
510	395670.7	3868876	8.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.17E-07
593	395620.7	3869226	8.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.10E-07
715	395720.7	3869726	8.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.09E-07
888	397270.7	3870076	8.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.08E-07
545	395620.7	3869026	8.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.05E-07
1129	397020.7	3870376	8.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.05E-07
1076	396420.7	3870326	8.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.02E-07
1120	396570.7	3870376	7.98E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.98E-07
1050	397170.7	3870276	7.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.96E-07
605	395620.7	3869276	7.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.95E-07
1090	397120.7	3870326	7.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.94E-07
533	395620.7	3868976	7.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.84E-07
929	397270.7	3870126	7.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.82E-07
487	395720.7	3868776	7.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.82E-07
1010	397220.7	3870226	7.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.82E-07
476	395770.7	3868726	7.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.78E-07
904	396020.7	3870126	7.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-07
678	395670.7	3869576	7.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-07

617	395620.7	3869326	7.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.75E-07
1166	396820.7	3870426	7.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.75E-07
1130	397070.7	3870376	7.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.75E-07
1167	396870.7	3870426	7.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.73E-07
1165	396770.7	3870426	7.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.70E-07
1119	396520.7	3870376	7.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.68E-07
1168	396920.7	3870426	7.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.66E-07
465	395820.7	3868676	7.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.64E-07
498	395670.7	3868826	7.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.63E-07
1032	396270.7	3870276	7.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.62E-07
1164	396720.7	3870426	7.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.59E-07
521	395620.7	3868926	7.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.59E-07
989	396170.7	3870226	7.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.55E-07
970	397270.7	3870176	7.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.54E-07
1169	396970.7	3870426	7.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.53E-07
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629	395620.7	3869376	7.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.51E-07
1091	397170.7	3870326	7.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.50E-07
1051	397220.7	3870276	7.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.44E-07
1163	396670.7	3870426	7.43E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.43E-07
1131	397120.7	3870376	7.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.41E-07
752	395770.7	3869876	7.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.38E-07
1170	397020.7	3870426	7.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.37E-07
1118	396470.7	3870376	7.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.31E-07
1011	397270.7	3870226	7.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.24E-07
1162	396620.7	3870426	7.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.24E-07
509	395620.7	3868876	7.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.23E-07
641	395620.7	3869426	7.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.23E-07
690	395670.7	3869626	7.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.23E-07
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475	395720.7	3868726	7.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.18E-07
727	395720.7	3869776	7.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.16E-07
1171	397070.7	3870426	7.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.16E-07
486	395670.7	3868776	7.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.11E-07
464	395770.7	3868676	7.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.07E-07
1092	397220.7	3870326	7.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.05E-07
1132	397170.7	3870376	7.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.04E-07
1074	396320.7	3870326	7.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.00E-07
1161	396570.7	3870426	6.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-07
1208	396870.7	3870476	6.98E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.98E-07
1207	396820.7	3870476	6.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.96E-07
453	395820.7	3868626	6.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.95E-07
556	395570.7	3869076	6.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.95E-07
1031	396220.7	3870276	6.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.95E-07
1209	396920.7	3870476	6.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.94E-07
568	395570.7	3869126	6.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.94E-07
1052	397270.7	3870276	6.93E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.93E-07
544	395570.7	3869026	6.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.90E-07
653	395620.7	3869476	6.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.90E-07

1117	396420.7	3870376	6.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.90E-07
1172	397120.7	3870426	6.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.90E-07
1206	396770.7	3870476	6.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.89E-07
580	395570.7	3869176	6.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.87E-07
1210	396970.7	3870476	6.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.87E-07
497	395620.7	3868826	6.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.84E-07
532	395570.7	3868976	6.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.79E-07
1205	396720.7	3870476	6.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.77E-07
592	395570.7	3869226	6.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.76E-07
1211	397020.7	3870476	6.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.75E-07
1160	396520.7	3870426	6.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.70E-07
988	396120.7	3870226	6.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.69E-07
1133	397220.7	3870376	6.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.67E-07
520	395570.7	3868926	6.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.62E-07
702	395670.7	3869676	6.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.62E-07
474	395670.7	3868726	6.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.62E-07
1093	397270.7	3870326	6.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.62E-07
604	395570.7	3869276	6.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.61E-07
1173	397170.7	3870426	6.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.61E-07
1204	396670.7	3870476	6.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.60E-07
1212	397070.7	3870476	6.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.60E-07
463	395720.7	3868676	6.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.60E-07
861	395920.7	3870076	6.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.54E-07
665	395620.7	3869526	6.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.54E-07
819	395870.7	3870026	6.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.53E-07
452	395770.7	3868626	6.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.50E-07
1116	396370.7	3870376	6.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.47E-07
1073	396270.7	3870326	6.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.45E-07
485	395620.7	3868776	6.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.44E-07
616	395570.7	3869326	6.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.42E-07
1213	397120.7	3870476	6.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.42E-07
508	395570.7	3868876	6.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.41E-07
1203	396620.7	3870476	6.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.40E-07
1159	396470.7	3870426	6.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.36E-07
903	395970.7	3870126	6.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.35E-07
1249	396870.7	3870526	6.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.32E-07
1250	396920.7	3870526	6.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.32E-07
1134	397270.7	3870376	6.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.30E-07
1174	397220.7	3870426	6.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.30E-07
1248	396820.7	3870526	6.28E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.28E-07
1251	396970.7	3870526	6.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.27E-07
1030	396170.7	3870276	6.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.25E-07
1252	397020.7	3870526	6.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.20E-07
1247	396770.7	3870526	6.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.20E-07
1214	397170.7	3870476	6.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.19E-07
628	395570.7	3869376	6.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.17E-07
777	395820.7	3869976	6.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.16E-07
496	395570.7	3868826	6.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.15E-07
1202	396570.7	3870476	6.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.15E-07

739	395720.7	3869826	6.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.15E-07
462	395670.7	3868676	6.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.15E-07
451	395720.7	3868626	6.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.11E-07
1253	397070.7	3870526	6.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.10E-07
677	395620.7	3869576	6.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.09E-07
473	395620.7	3868726	6.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.08E-07
945	396020.7	3870176	6.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.07E-07
1246	396720.7	3870526	6.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.06E-07
1115	396320.7	3870376	6.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.01E-07
1158	396420.7	3870426	6.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.01E-07
555	395520.7	3869076	5.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.99E-07
1175	397270.7	3870426	5.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.99E-07
543	395520.7	3869026	5.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.99E-07
714	395670.7	3869726	5.98E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.98E-07
1254	397120.7	3870526	5.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.96E-07
567	395520.7	3869126	5.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.94E-07
1215	397220.7	3870476	5.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.94E-07
531	395520.7	3868976	5.93E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.93E-07
640	395570.7	3869426	5.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.91E-07
1245	396670.7	3870526	5.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.90E-07
1201	396520.7	3870476	5.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.89E-07
1072	396220.7	3870326	5.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.87E-07
484	395570.7	3868776	5.86E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.86E-07
579	395520.7	3869176	5.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.85E-07
519	395520.7	3868926	5.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.84E-07
1255	397170.7	3870526	5.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.79E-07
987	396070.7	3870226	5.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.79E-07
1291	396920.7	3870576	5.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.76E-07
1290	396870.7	3870576	5.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.75E-07
1292	396970.7	3870576	5.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.74E-07
591	395520.7	3869226	5.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-07
764	395770.7	3869926	5.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-07
450	395670.7	3868626	5.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.72E-07
461	395620.7	3868676	5.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.71E-07
507	395520.7	3868876	5.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.70E-07
1293	397020.7	3870576	5.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.70E-07
1289	396820.7	3870576	5.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.69E-07
1244	396620.7	3870526	5.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.68E-07
1216	397270.7	3870476	5.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.68E-07
689	395620.7	3869626	5.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.65E-07
1294	397070.7	3870576	5.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.63E-07
1157	396370.7	3870426	5.62E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.62E-07
652	395570.7	3869476	5.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.60E-07
1256	397220.7	3870526	5.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.60E-07
1200	396470.7	3870476	5.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.59E-07
1288	396770.7	3870576	5.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.58E-07
472	395570.7	3868726	5.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.56E-07
603	395520.7	3869276	5.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.55E-07
1029	396120.7	3870276	5.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.54E-07

1295	397120.7	3870576	5.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.54E-07
1114	396270.7	3870376	5.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.53E-07
495	395520.7	3868826	5.53E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.53E-07
1243	396570.7	3870526	5.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.46E-07
1287	396720.7	3870576	5.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.44E-07
1296	397170.7	3870576	5.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.41E-07
1257	397270.7	3870526	5.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.38E-07
449	395620.7	3868626	5.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.37E-07
615	395520.7	3869326	5.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.37E-07
483	395520.7	3868776	5.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.32E-07
726	395670.7	3869776	5.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.30E-07
664	395570.7	3869526	5.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.29E-07
460	395570.7	3868676	5.28E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.28E-07
1071	396170.7	3870326	5.28E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.28E-07
1333	396970.7	3870626	5.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.27E-07
1332	396920.7	3870626	5.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.27E-07
1286	396670.7	3870576	5.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.27E-07
1199	396420.7	3870476	5.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.27E-07
1297	397220.7	3870576	5.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.26E-07
1334	397020.7	3870626	5.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.25E-07
542	395470.7	3869026	5.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.24E-07
1331	396870.7	3870626	5.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.23E-07
530	395470.7	3868976	5.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.22E-07
1242	396520.7	3870526	5.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.22E-07
1335	397070.7	3870626	5.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.21E-07
1156	396320.7	3870426	5.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.21E-07
554	395470.7	3869076	5.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.19E-07
518	395470.7	3868926	5.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.18E-07
701	395620.7	3869676	5.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.17E-07
627	395520.7	3869376	5.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.16E-07
1330	396820.7	3870626	5.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.16E-07
1336	397120.7	3870626	5.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.15E-07
751	395720.7	3869876	5.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.15E-07
566	395470.7	3869126	5.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.12E-07
902	395920.7	3870126	5.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.12E-07
471	395520.7	3868726	5.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.10E-07
506	395470.7	3868876	5.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.10E-07
1298	397270.7	3870576	5.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.09E-07
1285	396620.7	3870576	5.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.08E-07
944	395970.7	3870176	5.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.08E-07
1337	397170.7	3870626	5.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.06E-07
1329	396770.7	3870626	5.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.05E-07
860	395870.7	3870076	5.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.04E-07
1113	396220.7	3870376	5.03E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.03E-07
578	395470.7	3869176	5.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.02E-07
448	395570.7	3868626	5.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.01E-07
494	395470.7	3868826	4.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.99E-07
986	396020.7	3870226	4.97E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.97E-07
1241	396470.7	3870526	4.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.95E-07

676	395570.7	3869576	4.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.94E-07
1338	397220.7	3870626	4.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.94E-07
639	395520.7	3869426	4.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.92E-07
1198	396370.7	3870476	4.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.92E-07
1328	396720.7	3870626	4.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.91E-07
590	395470.7	3869226	4.90E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.90E-07
459	395520.7	3868676	4.88E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.88E-07
1284	396570.7	3870576	4.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.87E-07
482	395470.7	3868776	4.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.85E-07
1028	396070.7	3870276	4.83E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.83E-07
818	395820.7	3870026	4.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.82E-07
1339	397270.7	3870626	4.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.80E-07
1155	396270.7	3870426	4.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.79E-07
602	395470.7	3869276	4.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.75E-07
1327	396670.7	3870626	4.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.74E-07
470	395470.7	3868726	4.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.68E-07
1070	396120.7	3870326	4.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.67E-07
651	395520.7	3869476	4.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.67E-07
713	395620.7	3869726	4.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.67E-07
447	395520.7	3868626	4.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.66E-07
1240	396420.7	3870526	4.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.65E-07
1283	396520.7	3870576	4.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.64E-07
529	395420.7	3868976	4.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.61E-07
738	395670.7	3869826	4.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.60E-07
517	395420.7	3868926	4.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.60E-07
541	395420.7	3869026	4.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.60E-07
614	395470.7	3869326	4.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.58E-07
688	395570.7	3869626	4.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.57E-07
505	395420.7	3868876	4.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-07
1326	396620.7	3870626	4.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-07
1197	396320.7	3870476	4.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.55E-07
553	395420.7	3869076	4.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.55E-07
1112	396170.7	3870376	4.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.52E-07
776	395770.7	3869976	4.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.52E-07
493	395420.7	3868826	4.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.50E-07
458	395470.7	3868676	4.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.50E-07
565	395420.7	3869126	4.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.48E-07
481	395420.7	3868776	4.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.41E-07
663	395520.7	3869526	4.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.39E-07
626	395470.7	3869376	4.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.39E-07
1282	396470.7	3870576	4.39E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.39E-07
577	395420.7	3869176	4.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.37E-07
1154	396220.7	3870426	4.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.36E-07
1325	396570.7	3870626	4.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.35E-07
446	395470.7	3868626	4.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.33E-07
1239	396370.7	3870526	4.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.33E-07
469	395420.7	3868726	4.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.30E-07
763	395720.7	3869926	4.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.25E-07
589	395420.7	3869226	4.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.25E-07

985	395970.7	3870226	4.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.24E-07
943	395920.7	3870176	4.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.22E-07
1027	396020.7	3870276	4.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.20E-07
700	395570.7	3869676	4.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.18E-07
1196	396270.7	3870476	4.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.18E-07
638	395470.7	3869426	4.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.18E-07
457	395420.7	3868676	4.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.16E-07
725	395620.7	3869776	4.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.15E-07
1324	396520.7	3870626	4.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.14E-07
901	395870.7	3870126	4.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.14E-07
1069	396070.7	3870326	4.13E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.13E-07
1281	396420.7	3870576	4.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.12E-07
516	395370.7	3868926	4.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.12E-07
528	395370.7	3868976	4.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.11E-07
504	395370.7	3868876	4.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.11E-07
601	395420.7	3869276	4.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.10E-07
675	395520.7	3869576	4.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.10E-07
540	395370.7	3869026	4.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-07
492	395370.7	3868826	4.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-07
1111	396120.7	3870376	4.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.04E-07
552	395370.7	3869076	4.03E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.03E-07
480	395370.7	3868776	4.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.02E-07
445	395420.7	3868626	4.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.02E-07
1238	396320.7	3870526	4.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.01E-07
859	395820.7	3870076	3.99E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.99E-07
650	395470.7	3869476	3.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.95E-07
750	395670.7	3869876	3.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.95E-07
613	395420.7	3869326	3.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.95E-07
564	395370.7	3869126	3.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.94E-07
468	395370.7	3868726	3.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.94E-07
1153	396170.7	3870426	3.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.94E-07
1323	396470.7	3870626	3.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.92E-07
1280	396370.7	3870576	3.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.85E-07
456	395370.7	3868676	3.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.85E-07
576	395370.7	3869176	3.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.84E-07
1195	396220.7	3870476	3.83E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.83E-07
687	395520.7	3869626	3.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.79E-07
712	395570.7	3869726	3.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.78E-07
625	395420.7	3869376	3.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.77E-07
817	395770.7	3870026	3.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.76E-07
444	395370.7	3868626	3.74E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.74E-07
503	395320.7	3868876	3.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.72E-07
588	395370.7	3869226	3.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.72E-07
662	395470.7	3869526	3.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.71E-07
515	395320.7	3868926	3.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.71E-07
491	395320.7	3868826	3.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.71E-07
1237	396270.7	3870526	3.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.70E-07
1322	396420.7	3870626	3.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-07
527	395320.7	3868976	3.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-07

479	395320.7	3868776	3.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.68E-07
737	395620.7	3869826	3.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.65E-07
539	395320.7	3869026	3.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.64E-07
1026	395970.7	3870276	3.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.63E-07
467	395320.7	3868726	3.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.63E-07
1068	396020.7	3870326	3.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.63E-07
1110	396070.7	3870376	3.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.60E-07
984	395920.7	3870226	3.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.60E-07
551	395320.7	3869076	3.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.58E-07
637	395420.7	3869426	3.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.58E-07
1279	396320.7	3870576	3.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.58E-07
600	395370.7	3869276	3.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.58E-07
775	395720.7	3869976	3.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.56E-07
455	395320.7	3868676	3.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.56E-07
1152	396120.7	3870426	3.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.55E-07
942	395870.7	3870176	3.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.52E-07
563	395320.7	3869126	3.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.50E-07
1194	396170.7	3870476	3.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.48E-07
443	395320.7	3868626	3.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.47E-07
699	395520.7	3869676	3.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.46E-07
674	395470.7	3869576	3.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.46E-07
1321	396370.7	3870626	3.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.45E-07
612	395370.7	3869326	3.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.42E-07
575	395320.7	3869176	3.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-07
900	395820.7	3870126	3.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-07
1236	396220.7	3870526	3.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-07
724	395570.7	3869776	3.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.38E-07
762	395670.7	3869926	3.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.38E-07
649	395420.7	3869476	3.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.37E-07
490	395270.7	3868826	3.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.37E-07
502	395270.7	3868876	3.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.36E-07
478	395270.7	3868776	3.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.36E-07
514	395270.7	3868926	3.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.34E-07
466	395270.7	3868726	3.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.34E-07
1278	396270.7	3870576	3.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.31E-07
526	395270.7	3868976	3.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.31E-07
454	395270.7	3868676	3.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.29E-07
587	395320.7	3869226	3.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.27E-07
624	395370.7	3869376	3.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.27E-07
538	395270.7	3869026	3.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.26E-07
442	395270.7	3868626	3.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.23E-07
858	395770.7	3870076	3.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.23E-07
1320	396320.7	3870626	3.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.20E-07
550	395270.7	3869076	3.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.20E-07
749	395620.7	3869876	3.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.20E-07
1109	396020.7	3870376	3.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.19E-07
1151	396070.7	3870426	3.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.19E-07
686	395470.7	3869626	3.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.17E-07
1067	395970.7	3870326	3.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.16E-07

1193	396120.7	3870476	3.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.16E-07
661	395420.7	3869526	3.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.16E-07
599	395320.7	3869276	3.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.14E-07
711	395520.7	3869726	3.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.14E-07
562	395270.7	3869126	3.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.12E-07
1025	395920.7	3870276	3.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.12E-07
1235	396170.7	3870526	3.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.12E-07
636	395370.7	3869426	3.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.10E-07
983	395870.7	3870226	3.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.06E-07
816	395720.7	3870026	3.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.06E-07
1277	396220.7	3870576	3.04E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.04E-07
574	395270.7	3869176	3.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.02E-07
736	395570.7	3869826	3.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-07
611	395320.7	3869326	3.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-07
941	395820.7	3870176	2.98E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.98E-07
1319	396270.7	3870626	2.97E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.97E-07
673	395420.7	3869576	2.94E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.94E-07
648	395370.7	3869476	2.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.92E-07
774	395670.7	3869976	2.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.92E-07
586	395270.7	3869226	2.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.91E-07
698	395470.7	3869676	2.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.91E-07
623	395320.7	3869376	2.86E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.86E-07
1192	396070.7	3870476	2.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.85E-07
899	395770.7	3870126	2.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.85E-07
1150	396020.7	3870426	2.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.84E-07
1234	396120.7	3870526	2.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.84E-07
723	395520.7	3869776	2.82E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.82E-07
1108	395970.7	3870376	2.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.80E-07
1276	396170.7	3870576	2.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.80E-07
761	395620.7	3869926	2.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.79E-07
598	395270.7	3869276	2.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.79E-07
1066	395920.7	3870326	2.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.76E-07
1318	396220.7	3870626	2.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.75E-07
660	395370.7	3869526	2.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.73E-07
685	395420.7	3869626	2.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.72E-07
1024	395870.7	3870276	2.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.71E-07
635	395320.7	3869426	2.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.71E-07
857	395720.7	3870076	2.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.70E-07
748	395570.7	3869876	2.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.67E-07
610	395270.7	3869326	2.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.66E-07
710	395470.7	3869726	2.66E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.66E-07
982	395820.7	3870226	2.65E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.65E-07
815	395670.7	3870026	2.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.58E-07
1233	396070.7	3870526	2.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.57E-07
1275	396120.7	3870576	2.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.57E-07
1191	396020.7	3870476	2.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.56E-07
647	395320.7	3869476	2.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.55E-07
735	395520.7	3869826	2.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.55E-07
1317	396170.7	3870626	2.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.55E-07

940	395770.7	3870176	2.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.54E-07
672	395370.7	3869576	2.54E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.54E-07
622	395270.7	3869376	2.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-07
1149	395970.7	3870426	2.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-07
697	395420.7	3869676	2.50E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.50E-07
1107	395920.7	3870376	2.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-07
773	395620.7	3869976	2.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-07
1065	395870.7	3870326	2.43E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.43E-07
898	395720.7	3870126	2.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.42E-07
722	395470.7	3869776	2.42E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.42E-07
659	395320.7	3869526	2.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.38E-07
760	395570.7	3869926	2.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.38E-07
634	395270.7	3869426	2.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.38E-07
1023	395820.7	3870276	2.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.38E-07
684	395370.7	3869626	2.36E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.36E-07
1316	396120.7	3870626	2.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.35E-07
1274	396070.7	3870576	2.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.34E-07
1232	396020.7	3870526	2.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.33E-07
856	395670.7	3870076	2.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.31E-07
709	395420.7	3869726	2.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.30E-07
981	395770.7	3870226	2.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.30E-07
747	395520.7	3869876	2.30E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.30E-07
1190	395970.7	3870476	2.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.29E-07
1148	395920.7	3870426	2.25E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.25E-07
646	395270.7	3869476	2.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.24E-07
671	395320.7	3869576	2.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.22E-07
814	395620.7	3870026	2.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.22E-07
734	395470.7	3869826	2.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.21E-07
1106	395870.7	3870376	2.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.20E-07
939	395720.7	3870176	2.19E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.19E-07
696	395370.7	3869676	2.18E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.18E-07
1064	395820.7	3870326	2.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.16E-07
1315	396070.7	3870626	2.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.15E-07
772	395570.7	3869976	2.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.14E-07
1273	396020.7	3870576	2.13E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.13E-07
721	395420.7	3869776	2.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.12E-07
658	395270.7	3869526	2.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.10E-07
1231	395970.7	3870526	2.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.10E-07
1022	395770.7	3870276	2.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.09E-07
897	395670.7	3870126	2.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.09E-07
759	395520.7	3869926	2.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.08E-07
683	395320.7	3869626	2.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.07E-07
1189	395920.7	3870476	2.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.05E-07
708	395370.7	3869726	2.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.02E-07
855	395620.7	3870076	2.02E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.02E-07
746	395470.7	3869876	2.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.01E-07
1147	395870.7	3870426	2.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.01E-07
980	395720.7	3870226	2.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.00E-07
1105	395820.7	3870376	1.97E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.97E-07

1314	396020.7	3870626	1.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.96E-07
670	395270.7	3869576	1.96E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.96E-07
813	395570.7	3870026	1.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.95E-07
733	395420.7	3869826	1.95E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.95E-07
1272	395970.7	3870576	1.93E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.93E-07
695	395320.7	3869676	1.93E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.93E-07
1063	395770.7	3870326	1.92E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.92E-07
938	395670.7	3870176	1.91E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.91E-07
1230	395920.7	3870526	1.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.89E-07
771	395520.7	3869976	1.89E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.89E-07
720	395370.7	3869776	1.87E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.87E-07
1188	395870.7	3870476	1.85E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.85E-07
758	395470.7	3869926	1.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-07
1021	395720.7	3870276	1.84E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-07
896	395620.7	3870126	1.83E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-07
682	395270.7	3869626	1.83E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-07
1146	395820.7	3870426	1.81E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-07
707	395320.7	3869726	1.80E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.80E-07
1313	395970.7	3870626	1.79E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.79E-07
745	395420.7	3869876	1.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.78E-07
854	395570.7	3870076	1.78E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.78E-07
1104	395770.7	3870376	1.77E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.77E-07
979	395670.7	3870226	1.76E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.76E-07
1271	395920.7	3870576	1.75E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.75E-07
732	395370.7	3869826	1.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.73E-07
812	395520.7	3870026	1.73E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.73E-07
694	395270.7	3869676	1.72E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.72E-07
1229	395870.7	3870526	1.71E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.71E-07
1062	395720.7	3870326	1.70E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.70E-07
937	395620.7	3870176	1.69E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.69E-07
770	395470.7	3869976	1.68E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.68E-07
1187	395820.7	3870476	1.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.67E-07
719	395320.7	3869776	1.67E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.67E-07
757	395420.7	3869926	1.64E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.64E-07
895	395570.7	3870126	1.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-07
1145	395770.7	3870426	1.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-07
1020	395670.7	3870276	1.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-07
1312	395920.7	3870626	1.63E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-07
706	395270.7	3869726	1.61E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-07
744	395370.7	3869876	1.60E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.60E-07
1270	395870.7	3870576	1.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.59E-07
853	395520.7	3870076	1.59E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.59E-07
1103	395720.7	3870376	1.58E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-07
978	395620.7	3870226	1.57E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.57E-07
1228	395820.7	3870526	1.56E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.56E-07
731	395320.7	3869826	1.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-07
811	395470.7	3870026	1.55E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-07
1186	395770.7	3870476	1.52E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.52E-07
1061	395670.7	3870326	1.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-07

936	395570.7	3870176	1.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-07
718	395270.7	3869776	1.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-07
769	395420.7	3869976	1.51E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-07
1311	395870.7	3870626	1.49E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-07
756	395370.7	3869926	1.48E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-07
894	395520.7	3870126	1.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-07
1144	395720.7	3870426	1.47E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.47E-07
1269	395820.7	3870576	1.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-07
1019	395620.7	3870276	1.46E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-07
743	395320.7	3869876	1.45E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-07
852	395470.7	3870076	1.44E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.44E-07
1227	395770.7	3870526	1.43E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.43E-07
730	395270.7	3869826	1.41E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-07
810	395420.7	3870026	1.40E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.40E-07
1102	395670.7	3870376	1.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.38E-07
977	395570.7	3870226	1.38E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.38E-07
768	395370.7	3869976	1.37E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-07
1185	395720.7	3870476	1.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.35E-07
755	395320.7	3869926	1.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.35E-07
1268	395770.7	3870576	1.35E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.35E-07
935	395520.7	3870176	1.34E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.34E-07
1310	395820.7	3870626	1.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-07
1060	395620.7	3870326	1.33E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-07
742	395270.7	3869876	1.32E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.32E-07
893	395470.7	3870126	1.31E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-07
1143	395670.7	3870426	1.29E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.29E-07
1018	395570.7	3870276	1.28E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-07
851	395420.7	3870076	1.28E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-07
1226	395720.7	3870526	1.27E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-07
809	395370.7	3870026	1.26E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-07
976	395520.7	3870226	1.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-07
767	395320.7	3869976	1.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-07
1101	395620.7	3870376	1.24E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-07
1309	395770.7	3870626	1.23E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-07
754	395270.7	3869926	1.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-07
934	395470.7	3870176	1.22E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-07
1184	395670.7	3870476	1.21E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.21E-07
1267	395720.7	3870576	1.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-07
892	395420.7	3870126	1.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-07
1059	395570.7	3870326	1.20E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-07
850	395370.7	3870076	1.17E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-07
1142	395620.7	3870426	1.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-07
1017	395520.7	3870276	1.16E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-07
808	395320.7	3870026	1.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.15E-07
1225	395670.7	3870526	1.15E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.15E-07
1308	395720.7	3870626	1.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-07
766	395270.7	3869976	1.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-07
975	395470.7	3870226	1.14E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-07
1100	395570.7	3870376	1.13E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.13E-07

933	395420.7	3870176	1.12E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-07
891	395370.7	3870126	1.11E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-07
1183	395620.7	3870476	1.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-07
1266	395670.7	3870576	1.10E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-07
1058	395520.7	3870326	1.09E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-07
849	395320.7	3870076	1.08E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-07
807	395270.7	3870026	1.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-07
1016	395470.7	3870276	1.07E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-07
1141	395570.7	3870426	1.06E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-07
974	395420.7	3870226	1.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-07
1307	395670.7	3870626	1.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-07
932	395370.7	3870176	1.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-07
1224	395620.7	3870526	1.05E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-07
1099	395520.7	3870376	1.03E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-07
890	395320.7	3870126	1.03E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-07
848	395270.7	3870076	1.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-07
1057	395470.7	3870326	1.01E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-07
1182	395570.7	3870476	1.00E-07	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.00E-07
1265	395620.7	3870576	9.99E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.99E-08
1015	395420.7	3870276	9.85E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.85E-08
973	395370.7	3870226	9.76E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.76E-08
1140	395520.7	3870426	9.72E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.72E-08
931	395320.7	3870176	9.68E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.68E-08
1306	395620.7	3870626	9.56E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.56E-08
889	395270.7	3870126	9.51E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.51E-08
1223	395570.7	3870526	9.48E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.48E-08
1098	395470.7	3870376	9.44E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.44E-08
1056	395420.7	3870326	9.25E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.25E-08
1014	395370.7	3870276	9.18E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.18E-08
972	395320.7	3870226	9.17E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.17E-08
1181	395520.7	3870476	9.13E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.13E-08
930	395270.7	3870176	9.07E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.07E-08
1264	395570.7	3870576	9.05E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.05E-08
1139	395470.7	3870426	8.94E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.94E-08
1097	395420.7	3870376	8.75E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.75E-08
1222	395520.7	3870526	8.69E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.69E-08
1305	395570.7	3870626	8.69E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.69E-08
1013	395320.7	3870276	8.65E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.65E-08
1055	395370.7	3870326	8.65E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.65E-08
971	395270.7	3870226	8.64E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.64E-08
1180	395470.7	3870476	8.47E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.47E-08
1138	395420.7	3870426	8.31E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.31E-08
1263	395520.7	3870576	8.31E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.31E-08
1096	395370.7	3870376	8.15E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.15E-08
1012	395270.7	3870276	8.12E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.12E-08
1054	395320.7	3870326	8.08E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.08E-08
1221	395470.7	3870526	8.06E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.06E-08
1304	395520.7	3870626	7.99E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.99E-08
1179	395420.7	3870476	7.85E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.85E-08

1137	395370.7	3870426	7.69E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.69E-08
1262	395470.7	3870576	7.69E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.69E-08
1053	395270.7	3870326	7.67E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.67E-08
1095	395320.7	3870376	7.64E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.64E-08
1220	395420.7	3870526	7.44E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.44E-08
1178	395370.7	3870476	7.32E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.32E-08
1303	395470.7	3870626	7.32E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.32E-08
1136	395320.7	3870426	7.24E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.24E-08
1094	395270.7	3870376	7.21E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.21E-08
1261	395420.7	3870576	7.11E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.11E-08
1219	395370.7	3870526	6.98E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.98E-08
1177	395320.7	3870476	6.83E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.83E-08
1302	395420.7	3870626	6.83E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.83E-08
1135	395270.7	3870426	6.80E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.80E-08
1260	395370.7	3870576	6.67E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.67E-08
1218	395320.7	3870526	6.51E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.51E-08
1176	395270.7	3870476	6.46E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.46E-08
1301	395370.7	3870626	6.39E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.39E-08
1259	395320.7	3870576	6.23E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.23E-08
1217	395270.7	3870526	6.16E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.16E-08
1300	395320.7	3870626	5.98E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.98E-08
1258	395270.7	3870576	5.89E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.89E-08
1299	395270.7	3870626	5.66E-08	2YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.66E-08

Edwards AFB Solar Facility Project - Construction HRA - Unmitigated Non-Cancer Chronic Risk

**HARP 2 - Air Dispersion Modeling and Risk Tool v17320

**2/7/2018

** Chronic Risk Results of All Discrete Sensitive Receptor Points Are Shown - Descending From Maximum

REC	X	Y	SCENARIO	RESP	MAXHI
792	396570.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.77E-03	3.77E-03
790	396470.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-03	3.75E-03
791	396520.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-03	3.75E-03
793	396620.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.73E-03	3.73E-03
789	396420.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.70E-03	3.70E-03
788	396370.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.64E-03	3.64E-03
787	396320.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.55E-03	3.55E-03
786	396270.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.45E-03	3.45E-03
785	396220.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.30E-03	3.30E-03
794	396668.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	3.30E-03	3.30E-03
795	396718.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	3.22E-03	3.22E-03
784	396170.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.16E-03	3.16E-03
796	396768.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	3.02E-03	3.02E-03
783	396120.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.98E-03	2.98E-03
782	396070.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.73E-03	2.73E-03
834	396620.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.59E-03	2.59E-03
833	396570.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.59E-03	2.59E-03
832	396520.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.58E-03	2.58E-03
835	396670.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.56E-03	2.56E-03
797	396818.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	2.54E-03	2.54E-03
831	396470.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.54E-03	2.54E-03
836	396720.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.52E-03	2.52E-03
830	396420.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.49E-03	2.49E-03
781	396020.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.45E-03	2.45E-03
829	396370.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.42E-03	2.42E-03
837	396770.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.39E-03	2.39E-03
828	396320.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.34E-03	2.34E-03
609	395820.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-03	2.29E-03
597	395820.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-03	2.29E-03
621	395820.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-03	2.29E-03
633	395820.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.27E-03	2.27E-03
585	395820.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	2.27E-03	2.27E-03
827	396270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.24E-03	2.24E-03
645	395820.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.24E-03	2.24E-03
573	395820.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	2.23E-03	2.23E-03
657	395820.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	2.20E-03	2.20E-03
838	396820.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.16E-03	2.16E-03
669	395820.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-03	2.15E-03
826	396220.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-03	2.13E-03
561	395820.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-03	2.13E-03

780	395970.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-03	2.09E-03
681	395820.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-03	2.09E-03
798	396868.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	2.07E-03	2.07E-03
875	396620.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.01E-03	2.01E-03
876	396670.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-03	2.00E-03
693	395820.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-03	2.00E-03
874	396570.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-03	1.99E-03
825	396170.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-03	1.99E-03
873	396520.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-03	1.97E-03
877	396720.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.96E-03	1.96E-03
872	396470.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.93E-03	1.93E-03
878	396770.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.90E-03	1.90E-03
705	395820.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.89E-03	1.89E-03
839	396870.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.89E-03	1.89E-03
871	396420.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-03	1.88E-03
549	395820.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-03	1.86E-03
824	396120.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-03	1.82E-03
870	396370.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-03	1.81E-03
879	396820.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.79E-03	1.79E-03
717	395820.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.78E-03	1.78E-03
799	396918.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.77E-03	1.77E-03
869	396320.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.73E-03	1.73E-03
840	396920.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-03	1.64E-03
880	396870.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-03	1.64E-03
868	396270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-03	1.64E-03
823	396070.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-03	1.64E-03
729	395820.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-03	1.64E-03
917	396670.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-03	1.62E-03
916	396620.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-03	1.62E-03
918	396720.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.61E-03	1.61E-03
915	396570.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-03	1.60E-03
919	396770.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-03	1.58E-03
914	396520.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-03	1.58E-03
779	395920.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-03	1.55E-03
867	396220.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.54E-03	1.54E-03
913	396470.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.53E-03	1.53E-03
800	396968.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.53E-03	1.53E-03
920	396820.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.52E-03	1.52E-03
537	395820.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.51E-03	1.51E-03
596	395770.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.51E-03	1.51E-03
608	395770.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-03	1.50E-03
584	395770.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-03	1.50E-03
620	395770.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-03	1.49E-03
912	396420.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-03	1.48E-03
881	396920.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-03	1.48E-03
572	395770.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.47E-03	1.47E-03
632	395770.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	1.47E-03	1.47E-03

741	395820.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.45E-03	1.45E-03
841	396970.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.44E-03	1.44E-03
644	395770.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	1.44E-03	1.44E-03
560	395770.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.43E-03	1.43E-03
921	396870.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.43E-03	1.43E-03
911	396370.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.42E-03	1.42E-03
866	396170.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.42E-03	1.42E-03
822	396020.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-03	1.41E-03
656	395770.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	1.40E-03	1.40E-03
668	395770.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-03	1.36E-03
958	396670.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-03	1.36E-03
959	396720.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-03	1.35E-03
910	396320.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-03	1.35E-03
957	396620.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-03	1.35E-03
801	397018.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.34E-03	1.34E-03
960	396770.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.34E-03	1.34E-03
548	395770.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.33E-03	1.33E-03
882	396970.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.33E-03	1.33E-03
956	396570.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.33E-03	1.33E-03
922	396920.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.32E-03	1.32E-03
961	396820.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-03	1.30E-03
955	396520.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-03	1.30E-03
680	395770.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.29E-03	1.29E-03
842	397020.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-03	1.28E-03
865	396120.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-03	1.28E-03
909	396270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.27E-03	1.27E-03
525	395820.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-03	1.26E-03
954	396470.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-03	1.26E-03
962	396870.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.25E-03	1.25E-03
692	395770.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.22E-03	1.22E-03
923	396970.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-03	1.21E-03
953	396420.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-03	1.21E-03
536	395770.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.20E-03	1.20E-03
883	397020.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.20E-03	1.20E-03
802	397068.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-03	1.18E-03
753	395820.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-03	1.18E-03
963	396920.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-03	1.18E-03
908	396220.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-03	1.17E-03
1000	396720.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-03	1.16E-03
999	396670.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-03	1.15E-03
1001	396770.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-03	1.15E-03
952	396370.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-03	1.15E-03
704	395770.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-03	1.15E-03
821	395970.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-03	1.14E-03
998	396620.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-03	1.14E-03
843	397070.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-03	1.14E-03
1002	396820.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.13E-03	1.13E-03

864	396070.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-03	1.12E-03
583	395720.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-03	1.12E-03
595	395720.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-03	1.12E-03
997	396570.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-03	1.12E-03
571	395720.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-03	1.12E-03
607	395720.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-03	1.12E-03
924	397020.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.11E-03	1.11E-03
619	395720.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-03	1.10E-03
964	396970.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-03	1.10E-03
1003	396870.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-03	1.10E-03
559	395720.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-03	1.09E-03
996	396520.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-03	1.09E-03
513	395820.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-03	1.09E-03
951	396320.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-03	1.08E-03
631	395720.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-03	1.08E-03
884	397070.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-03	1.08E-03
524	395770.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-03	1.07E-03
907	396170.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-03	1.07E-03
716	395770.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.06E-03	1.06E-03
1004	396920.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-03	1.05E-03
803	397118.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-03	1.05E-03
547	395720.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-03	1.05E-03
995	396470.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-03	1.05E-03
643	395720.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-03	1.05E-03
965	397020.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.02E-03	1.02E-03
844	397120.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.02E-03	1.02E-03
655	395720.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-03	1.01E-03
925	397070.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-03	1.01E-03
950	396270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-03	1.01E-03
994	396420.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.00E-03	1.00E-03
1042	396770.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.00E-03	1.00E-03
1041	396720.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.99E-04	9.99E-04
1005	396970.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.97E-04	9.97E-04
1040	396670.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.92E-04	9.92E-04
1043	396820.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.91E-04	9.91E-04
535	395720.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	9.86E-04	9.86E-04
1039	396620.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.77E-04	9.77E-04
1044	396870.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.71E-04	9.71E-04
885	397120.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.70E-04	9.70E-04
667	395720.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	9.68E-04	9.68E-04
906	396120.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.54E-04	9.54E-04
501	395820.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	9.54E-04	9.54E-04
1038	396570.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.53E-04	9.53E-04
512	395770.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	9.52E-04	9.52E-04
863	396020.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.52E-04	9.52E-04
993	396370.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.50E-04	9.50E-04
728	395770.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	9.48E-04	9.48E-04

966	397070.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-04	9.42E-04
804	397168.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-04	9.42E-04
1045	396920.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-04	9.42E-04
1006	397020.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.37E-04	9.37E-04
949	396220.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	9.25E-04	9.25E-04
1037	396520.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.23E-04	9.23E-04
679	395720.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	9.20E-04	9.20E-04
926	397120.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.19E-04	9.19E-04
845	397170.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	9.15E-04	9.15E-04
523	395720.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.09E-04	9.09E-04
1046	396970.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.05E-04	9.05E-04
778	395870.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	8.93E-04	8.93E-04
582	395670.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	8.93E-04	8.93E-04
570	395670.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	8.91E-04	8.91E-04
992	396320.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.88E-04	8.88E-04
594	395670.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	8.87E-04	8.87E-04
1036	396470.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.87E-04	8.87E-04
558	395670.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	8.80E-04	8.80E-04
886	397170.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.79E-04	8.79E-04
1083	396770.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.78E-04	8.78E-04
1007	397070.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.76E-04	8.76E-04
606	395670.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	8.76E-04	8.76E-04
1084	396820.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.75E-04	8.75E-04
1082	396720.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.73E-04	8.73E-04
967	397120.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.67E-04	8.67E-04
1085	396870.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.64E-04	8.64E-04
691	395720.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	8.64E-04	8.64E-04
1081	396670.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.62E-04	8.62E-04
546	395670.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	8.61E-04	8.61E-04
1047	397020.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.60E-04	8.60E-04
618	395670.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	8.59E-04	8.59E-04
500	395770.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	8.54E-04	8.54E-04
489	395820.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	8.48E-04	8.48E-04
1086	396920.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.45E-04	8.45E-04
1035	396420.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.45E-04	8.45E-04
805	397218.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	8.45E-04	8.45E-04
1080	396620.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.45E-04	8.45E-04
927	397170.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.39E-04	8.39E-04
948	396170.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.38E-04	8.38E-04
820	395920.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	8.37E-04	8.37E-04
630	395670.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	8.37E-04	8.37E-04
511	395720.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.34E-04	8.34E-04
905	396070.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.31E-04	8.31E-04
534	395670.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	8.27E-04	8.27E-04
846	397220.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	8.25E-04	8.25E-04
1079	396570.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.22E-04	8.22E-04
991	396270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.22E-04	8.22E-04

1087	396970.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.20E-04	8.20E-04
765	395820.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	8.15E-04	8.15E-04
1008	397120.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.14E-04	8.14E-04
740	395770.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	8.13E-04	8.13E-04
1048	397070.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.12E-04	8.12E-04
642	395670.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	8.10E-04	8.10E-04
703	395720.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	8.00E-04	8.00E-04
968	397170.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.98E-04	7.98E-04
887	397220.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.97E-04	7.97E-04
1034	396370.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.95E-04	7.95E-04
1078	396520.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.94E-04	7.94E-04
1088	397020.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.89E-04	7.89E-04
522	395670.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	7.83E-04	7.83E-04
1125	396820.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.78E-04	7.78E-04
654	395670.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	7.77E-04	7.77E-04
1124	396770.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.77E-04	7.77E-04
1126	396870.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.72E-04	7.72E-04
488	395770.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	7.72E-04	7.72E-04
1123	396720.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.69E-04	7.69E-04
928	397220.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.67E-04	7.67E-04
499	395720.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	7.65E-04	7.65E-04
806	397268.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-04	7.63E-04
1049	397120.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-04	7.63E-04
1127	396920.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.60E-04	7.60E-04
1077	396470.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.60E-04	7.60E-04
862	395970.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.59E-04	7.59E-04
477	395820.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	7.59E-04	7.59E-04
1009	397170.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.56E-04	7.56E-04
1122	396670.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.56E-04	7.56E-04
1089	397070.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.52E-04	7.52E-04
990	396220.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.52E-04	7.52E-04
847	397270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.47E-04	7.47E-04
947	396120.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.44E-04	7.44E-04
1128	396970.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.44E-04	7.44E-04
1033	396320.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.41E-04	7.41E-04
666	395670.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	7.40E-04	7.40E-04
1121	396620.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.38E-04	7.38E-04
569	395620.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	7.37E-04	7.37E-04
969	397220.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.35E-04	7.35E-04
581	395620.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	7.35E-04	7.35E-04
557	395620.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	7.34E-04	7.34E-04
510	395670.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	7.33E-04	7.33E-04
593	395620.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	7.27E-04	7.27E-04
715	395720.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	7.26E-04	7.26E-04
888	397270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.26E-04	7.26E-04
545	395620.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	7.23E-04	7.23E-04
1129	397020.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.22E-04	7.22E-04

1076	396420.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.20E-04	7.20E-04
1120	396570.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.16E-04	7.16E-04
1050	397170.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.14E-04	7.14E-04
605	395620.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	7.13E-04	7.13E-04
1090	397120.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.12E-04	7.12E-04
533	395620.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	7.04E-04	7.04E-04
929	397270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.02E-04	7.02E-04
487	395720.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	7.02E-04	7.02E-04
1010	397220.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.02E-04	7.02E-04
476	395770.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.98E-04	6.98E-04
904	396020.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.98E-04	6.98E-04
678	395670.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	6.98E-04	6.98E-04
617	395620.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-04	6.96E-04
1166	396820.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-04	6.96E-04
1130	397070.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.95E-04	6.95E-04
1167	396870.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.94E-04	6.94E-04
1165	396770.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.91E-04	6.91E-04
1119	396520.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.89E-04	6.89E-04
1168	396920.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.87E-04	6.87E-04
465	395820.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	6.85E-04	6.85E-04
498	395670.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	6.85E-04	6.85E-04
1032	396270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.84E-04	6.84E-04
1164	396720.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.81E-04	6.81E-04
521	395620.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	6.81E-04	6.81E-04
989	396170.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.77E-04	6.77E-04
970	397270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.77E-04	6.77E-04
1169	396970.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.76E-04	6.76E-04
1075	396370.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.75E-04	6.75E-04
629	395620.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	6.74E-04	6.74E-04
1091	397170.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.73E-04	6.73E-04
1051	397220.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.67E-04	6.67E-04
1163	396670.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.67E-04	6.67E-04
1131	397120.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.65E-04	6.65E-04
752	395770.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	6.62E-04	6.62E-04
1170	397020.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.61E-04	6.61E-04
1118	396470.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.56E-04	6.56E-04
1011	397270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.50E-04	6.50E-04
1162	396620.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.49E-04	6.49E-04
509	395620.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	6.49E-04	6.49E-04
641	395620.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	6.49E-04	6.49E-04
690	395670.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	6.49E-04	6.49E-04
946	396070.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.47E-04	6.47E-04
475	395720.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.44E-04	6.44E-04
727	395720.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	6.42E-04	6.42E-04
1171	397070.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.42E-04	6.42E-04
486	395670.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	6.38E-04	6.38E-04
464	395770.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	6.34E-04	6.34E-04

1092	397220.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.33E-04	6.33E-04
1132	397170.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.32E-04	6.32E-04
1074	396320.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.28E-04	6.28E-04
1161	396570.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.27E-04	6.27E-04
1208	396870.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.26E-04	6.26E-04
1207	396820.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.25E-04	6.25E-04
453	395820.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	6.24E-04	6.24E-04
556	395570.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	6.24E-04	6.24E-04
1031	396220.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.24E-04	6.24E-04
1209	396920.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.23E-04	6.23E-04
568	395570.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	6.23E-04	6.23E-04
1052	397270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-04	6.22E-04
544	395570.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	6.19E-04	6.19E-04
653	395620.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	6.19E-04	6.19E-04
1117	396420.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.19E-04	6.19E-04
1172	397120.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.19E-04	6.19E-04
1206	396770.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.18E-04	6.18E-04
580	395570.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	6.17E-04	6.17E-04
1210	396970.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.16E-04	6.16E-04
497	395620.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	6.14E-04	6.14E-04
532	395570.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	6.09E-04	6.09E-04
1205	396720.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.07E-04	6.07E-04
592	395570.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	6.07E-04	6.07E-04
1211	397020.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.06E-04	6.06E-04
1160	396520.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.01E-04	6.01E-04
988	396120.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.00E-04	6.00E-04
1133	397220.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.99E-04	5.99E-04
520	395570.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	5.94E-04	5.94E-04
702	395670.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	5.94E-04	5.94E-04
474	395670.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	5.94E-04	5.94E-04
1093	397270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.94E-04	5.94E-04
604	395570.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	5.93E-04	5.93E-04
1173	397170.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.93E-04	5.93E-04
1204	396670.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.92E-04	5.92E-04
1212	397070.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.92E-04	5.92E-04
463	395720.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	5.92E-04	5.92E-04
861	395920.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	5.87E-04	5.87E-04
665	395620.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	5.86E-04	5.86E-04
819	395870.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.86E-04	5.86E-04
452	395770.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.83E-04	5.83E-04
1116	396370.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.81E-04	5.81E-04
1073	396270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.79E-04	5.79E-04
485	395620.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	5.78E-04	5.78E-04
616	395570.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	5.76E-04	5.76E-04
1213	397120.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.76E-04	5.76E-04
508	395570.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	5.75E-04	5.75E-04
1203	396620.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.74E-04	5.74E-04

1159	396470.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.71E-04	5.71E-04
903	395970.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.69E-04	5.69E-04
1249	396870.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.67E-04	5.67E-04
1250	396920.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.67E-04	5.67E-04
1134	397270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.65E-04	5.65E-04
1174	397220.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.65E-04	5.65E-04
1248	396820.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.64E-04	5.64E-04
1251	396970.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.63E-04	5.63E-04
1030	396170.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.61E-04	5.61E-04
1252	397020.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.56E-04	5.56E-04
1247	396770.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.56E-04	5.56E-04
1214	397170.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.56E-04	5.56E-04
628	395570.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	5.54E-04	5.54E-04
777	395820.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	5.53E-04	5.53E-04
496	395570.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	5.52E-04	5.52E-04
1202	396570.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.52E-04	5.52E-04
739	395720.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	5.52E-04	5.52E-04
462	395670.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	5.52E-04	5.52E-04
451	395720.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.48E-04	5.48E-04
1253	397070.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.47E-04	5.47E-04
677	395620.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	5.47E-04	5.47E-04
473	395620.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	5.45E-04	5.45E-04
945	396020.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.45E-04	5.45E-04
1246	396720.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.44E-04	5.44E-04
1115	396320.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.39E-04	5.39E-04
1158	396420.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.39E-04	5.39E-04
555	395520.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	5.38E-04	5.38E-04
1175	397270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.37E-04	5.37E-04
543	395520.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	5.37E-04	5.37E-04
714	395670.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	5.36E-04	5.36E-04
1254	397120.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.35E-04	5.35E-04
567	395520.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	5.33E-04	5.33E-04
1215	397220.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.33E-04	5.33E-04
531	395520.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	5.32E-04	5.32E-04
640	395570.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	5.30E-04	5.30E-04
1245	396670.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.29E-04	5.29E-04
1201	396520.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.28E-04	5.28E-04
1072	396220.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.27E-04	5.27E-04
484	395570.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	5.26E-04	5.26E-04
579	395520.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	5.25E-04	5.25E-04
519	395520.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	5.24E-04	5.24E-04
1255	397170.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.20E-04	5.20E-04
987	396070.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.19E-04	5.19E-04
1291	396920.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.17E-04	5.17E-04
1290	396870.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.16E-04	5.16E-04
1292	396970.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.15E-04	5.15E-04
591	395520.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	5.14E-04	5.14E-04

764	395770.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	5.14E-04	5.14E-04
450	395670.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.13E-04	5.13E-04
461	395620.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	5.13E-04	5.13E-04
507	395520.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	5.12E-04	5.12E-04
1293	397020.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.12E-04	5.12E-04
1289	396820.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.11E-04	5.11E-04
1244	396620.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.10E-04	5.10E-04
1216	397270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.10E-04	5.10E-04
689	395620.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	5.07E-04	5.07E-04
1294	397070.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.06E-04	5.06E-04
1157	396370.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.04E-04	5.04E-04
652	395570.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	5.03E-04	5.03E-04
1256	397220.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.02E-04	5.02E-04
1200	396470.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.02E-04	5.02E-04
1288	396770.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.01E-04	5.01E-04
472	395570.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	4.99E-04	4.99E-04
603	395520.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	4.98E-04	4.98E-04
1029	396120.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.97E-04	4.97E-04
1295	397120.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.97E-04	4.97E-04
1114	396270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.96E-04	4.96E-04
495	395520.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	4.96E-04	4.96E-04
1243	396570.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.90E-04	4.90E-04
1287	396720.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.88E-04	4.88E-04
1296	397170.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.86E-04	4.86E-04
1257	397270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.83E-04	4.83E-04
449	395620.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	4.82E-04	4.82E-04
615	395520.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	4.82E-04	4.82E-04
483	395520.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	4.78E-04	4.78E-04
726	395670.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	4.75E-04	4.75E-04
664	395570.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	4.74E-04	4.74E-04
460	395570.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	4.74E-04	4.74E-04
1071	396170.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.74E-04	4.74E-04
1333	396970.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-04	4.73E-04
1332	396920.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-04	4.73E-04
1286	396670.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-04	4.73E-04
1199	396420.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-04	4.73E-04
1297	397220.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.72E-04	4.72E-04
1334	397020.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.71E-04	4.71E-04
542	395470.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	4.70E-04	4.70E-04
1331	396870.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.70E-04	4.70E-04
530	395470.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	4.69E-04	4.69E-04
1242	396520.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.68E-04	4.68E-04
1335	397070.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.68E-04	4.68E-04
1156	396320.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.68E-04	4.68E-04
554	395470.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	4.66E-04	4.66E-04
518	395470.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	4.65E-04	4.65E-04
701	395620.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	4.64E-04	4.64E-04

627	395520.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	4.63E-04	4.63E-04
1330	396820.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.63E-04	4.63E-04
1336	397120.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.62E-04	4.62E-04
751	395720.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	4.62E-04	4.62E-04
566	395470.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	4.60E-04	4.60E-04
902	395920.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	4.59E-04	4.59E-04
471	395520.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	4.58E-04	4.58E-04
506	395470.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	4.58E-04	4.58E-04
1298	397270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.56E-04	4.56E-04
1285	396620.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.56E-04	4.56E-04
944	395970.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	4.56E-04	4.56E-04
1337	397170.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.54E-04	4.54E-04
1329	396770.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.53E-04	4.53E-04
860	395870.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	4.53E-04	4.53E-04
1113	396220.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.52E-04	4.52E-04
578	395470.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	4.51E-04	4.51E-04
448	395570.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	4.50E-04	4.50E-04
494	395470.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	4.48E-04	4.48E-04
986	396020.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.46E-04	4.46E-04
1241	396470.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.44E-04	4.44E-04
676	395570.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	4.44E-04	4.44E-04
1338	397220.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.43E-04	4.43E-04
639	395520.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.42E-04	4.42E-04
1198	396370.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.42E-04	4.42E-04
1328	396720.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.41E-04	4.41E-04
590	395470.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	4.39E-04	4.39E-04
459	395520.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	4.38E-04	4.38E-04
1284	396570.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.37E-04	4.37E-04
482	395470.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	4.35E-04	4.35E-04
1028	396070.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.33E-04	4.33E-04
818	395820.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	4.32E-04	4.32E-04
1339	397270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.31E-04	4.31E-04
1155	396270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.30E-04	4.30E-04
602	395470.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	4.26E-04	4.26E-04
1327	396670.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.25E-04	4.25E-04
470	395470.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	4.20E-04	4.20E-04
1070	396120.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.19E-04	4.19E-04
651	395520.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	4.19E-04	4.19E-04
713	395620.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	4.19E-04	4.19E-04
447	395520.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-04	4.18E-04
1240	396420.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-04	4.18E-04
1283	396520.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.17E-04	4.17E-04
529	395420.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	4.14E-04	4.14E-04
738	395670.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	4.13E-04	4.13E-04
517	395420.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	4.13E-04	4.13E-04
541	395420.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	4.13E-04	4.13E-04
614	395470.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	4.11E-04	4.11E-04

688	395570.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	4.10E-04	4.10E-04
505	395420.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	4.09E-04	4.09E-04
1326	396620.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.09E-04	4.09E-04
1197	396320.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.09E-04	4.09E-04
553	395420.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	4.09E-04	4.09E-04
1112	396170.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.06E-04	4.06E-04
776	395770.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	4.06E-04	4.06E-04
493	395420.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	4.04E-04	4.04E-04
458	395470.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	4.04E-04	4.04E-04
565	395420.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	4.02E-04	4.02E-04
481	395420.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	3.96E-04	3.96E-04
663	395520.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	3.94E-04	3.94E-04
626	395470.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.94E-04	3.94E-04
1282	396470.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.94E-04	3.94E-04
577	395420.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	3.92E-04	3.92E-04
1154	396220.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.91E-04	3.91E-04
1325	396570.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.90E-04	3.90E-04
446	395470.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.89E-04	3.89E-04
1239	396370.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.88E-04	3.88E-04
469	395420.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	3.86E-04	3.86E-04
763	395720.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	3.82E-04	3.82E-04
589	395420.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	3.81E-04	3.81E-04
985	395970.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.80E-04	3.80E-04
943	395920.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	3.79E-04	3.79E-04
1027	396020.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.77E-04	3.77E-04
700	395570.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-04	3.75E-04
1196	396270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-04	3.75E-04
638	395470.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-04	3.75E-04
457	395420.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	3.74E-04	3.74E-04
725	395620.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	3.72E-04	3.72E-04
1324	396520.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.72E-04	3.72E-04
901	395870.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	3.71E-04	3.71E-04
1069	396070.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.71E-04	3.71E-04
1281	396420.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.70E-04	3.70E-04
516	395370.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	3.70E-04	3.70E-04
528	395370.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	3.69E-04	3.69E-04
504	395370.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	3.69E-04	3.69E-04
601	395420.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	3.68E-04	3.68E-04
675	395520.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	3.68E-04	3.68E-04
540	395370.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	3.66E-04	3.66E-04
492	395370.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	3.66E-04	3.66E-04
1111	396120.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.63E-04	3.63E-04
552	395370.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	3.61E-04	3.61E-04
480	395370.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	3.61E-04	3.61E-04
445	395420.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.60E-04	3.60E-04
1238	396320.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.60E-04	3.60E-04
859	395820.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	3.58E-04	3.58E-04

650	395470.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	3.55E-04	3.55E-04
750	395670.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	3.55E-04	3.55E-04
613	395420.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.54E-04	3.54E-04
564	395370.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	3.54E-04	3.54E-04
468	395370.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	3.54E-04	3.54E-04
1153	396170.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.54E-04	3.54E-04
1323	396470.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.52E-04	3.52E-04
1280	396370.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.45E-04	3.45E-04
456	395370.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	3.45E-04	3.45E-04
576	395370.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	3.45E-04	3.45E-04
1195	396220.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.43E-04	3.43E-04
687	395520.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	3.40E-04	3.40E-04
712	395570.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	3.39E-04	3.39E-04
625	395420.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.38E-04	3.38E-04
817	395770.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	3.37E-04	3.37E-04
444	395370.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.35E-04	3.35E-04
503	395320.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	3.34E-04	3.34E-04
588	395370.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-04	3.33E-04
662	395470.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-04	3.33E-04
515	395320.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-04	3.33E-04
491	395320.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-04	3.33E-04
1237	396270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.32E-04	3.32E-04
1322	396420.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.31E-04	3.31E-04
527	395320.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	3.31E-04	3.31E-04
479	395320.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	3.30E-04	3.30E-04
737	395620.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	3.28E-04	3.28E-04
539	395320.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	3.27E-04	3.27E-04
1026	395970.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.26E-04	3.26E-04
467	395320.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	3.26E-04	3.26E-04
1068	396020.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.26E-04	3.26E-04
1110	396070.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.23E-04	3.23E-04
984	395920.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.23E-04	3.23E-04
551	395320.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	3.22E-04	3.22E-04
637	395420.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	3.21E-04	3.21E-04
1279	396320.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.21E-04	3.21E-04
600	395370.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	3.21E-04	3.21E-04
775	395720.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.19E-04	3.19E-04
455	395320.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	3.19E-04	3.19E-04
1152	396120.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.19E-04	3.19E-04
942	395870.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	3.16E-04	3.16E-04
563	395320.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	3.14E-04	3.14E-04
1194	396170.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.13E-04	3.13E-04
443	395320.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.11E-04	3.11E-04
699	395520.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	3.11E-04	3.11E-04
674	395470.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	3.10E-04	3.10E-04
1321	396370.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.09E-04	3.09E-04
612	395370.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.07E-04	3.07E-04

575	395320.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-04	3.05E-04
900	395820.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-04	3.05E-04
1236	396220.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-04	3.05E-04
724	395570.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	3.03E-04	3.03E-04
762	395670.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	3.03E-04	3.03E-04
649	395420.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	3.03E-04	3.03E-04
490	395270.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	3.02E-04	3.02E-04
502	395270.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	3.02E-04	3.02E-04
478	395270.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	3.01E-04	3.01E-04
514	395270.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	3.00E-04	3.00E-04
466	395270.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	2.99E-04	2.99E-04
1278	396270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.97E-04	2.97E-04
526	395270.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	2.97E-04	2.97E-04
454	395270.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	2.96E-04	2.96E-04
587	395320.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.94E-04	2.94E-04
624	395370.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.93E-04	2.93E-04
538	395270.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	2.93E-04	2.93E-04
442	395270.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	2.90E-04	2.90E-04
858	395770.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.90E-04	2.90E-04
1320	396320.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.88E-04	2.88E-04
550	395270.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	2.87E-04	2.87E-04
749	395620.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	2.87E-04	2.87E-04
1109	396020.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.86E-04	2.86E-04
1151	396070.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.86E-04	2.86E-04
686	395470.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	2.85E-04	2.85E-04
1067	395970.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.84E-04	2.84E-04
1193	396120.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.84E-04	2.84E-04
661	395420.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	2.83E-04	2.83E-04
599	395320.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.82E-04	2.82E-04
711	395520.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	2.81E-04	2.81E-04
562	395270.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	2.80E-04	2.80E-04
1025	395920.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.80E-04	2.80E-04
1235	396170.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.80E-04	2.80E-04
636	395370.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.78E-04	2.78E-04
983	395870.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.75E-04	2.75E-04
816	395720.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.75E-04	2.75E-04
1277	396220.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.73E-04	2.73E-04
574	395270.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	2.71E-04	2.71E-04
736	395570.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	2.70E-04	2.70E-04
611	395320.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.70E-04	2.70E-04
941	395820.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.67E-04	2.67E-04
1319	396270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.67E-04	2.67E-04
673	395420.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	2.64E-04	2.64E-04
648	395370.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	2.62E-04	2.62E-04
774	395670.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.62E-04	2.62E-04
586	395270.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.61E-04	2.61E-04
698	395470.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	2.61E-04	2.61E-04

623	395320.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.57E-04	2.57E-04
1192	396070.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.56E-04	2.56E-04
899	395770.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.55E-04	2.55E-04
1150	396020.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.55E-04	2.55E-04
1234	396120.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.55E-04	2.55E-04
723	395520.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	2.53E-04	2.53E-04
1108	395970.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.52E-04	2.52E-04
1276	396170.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.51E-04	2.51E-04
761	395620.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	2.51E-04	2.51E-04
598	395270.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.50E-04	2.50E-04
1066	395920.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.48E-04	2.48E-04
1318	396220.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.47E-04	2.47E-04
660	395370.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	2.45E-04	2.45E-04
685	395420.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	2.44E-04	2.44E-04
1024	395870.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.43E-04	2.43E-04
635	395320.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.43E-04	2.43E-04
857	395720.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.42E-04	2.42E-04
748	395570.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	2.40E-04	2.40E-04
610	395270.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.39E-04	2.39E-04
710	395470.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	2.38E-04	2.38E-04
982	395820.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.38E-04	2.38E-04
815	395670.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.32E-04	2.32E-04
1233	396070.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-04	2.31E-04
1275	396120.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.30E-04	2.30E-04
1191	396020.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-04	2.29E-04
647	395320.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-04	2.29E-04
735	395520.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-04	2.29E-04
1317	396170.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-04	2.29E-04
940	395770.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.28E-04	2.28E-04
672	395370.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	2.28E-04	2.28E-04
622	395270.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.26E-04	2.26E-04
1149	395970.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.26E-04	2.26E-04
697	395420.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	2.24E-04	2.24E-04
1107	395920.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.22E-04	2.22E-04
773	395620.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.22E-04	2.22E-04
1065	395870.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-04	2.18E-04
898	395720.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-04	2.18E-04
722	395470.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-04	2.17E-04
659	395320.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	2.14E-04	2.14E-04
760	395570.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	2.14E-04	2.14E-04
634	395270.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.14E-04	2.14E-04
1023	395820.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-04	2.13E-04
684	395370.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-04	2.11E-04
1316	396120.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-04	2.11E-04
1274	396070.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.10E-04	2.10E-04
1232	396020.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-04	2.09E-04
856	395670.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.08E-04	2.08E-04

709	395420.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-04	2.06E-04
981	395770.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-04	2.06E-04
747	395520.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-04	2.06E-04
1190	395970.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-04	2.06E-04
1148	395920.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.02E-04	2.02E-04
646	395270.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	2.01E-04	2.01E-04
671	395320.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-04	1.99E-04
814	395620.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-04	1.99E-04
734	395470.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.98E-04	1.98E-04
1106	395870.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.98E-04	1.98E-04
939	395720.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-04	1.97E-04
696	395370.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.96E-04	1.96E-04
1064	395820.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.94E-04	1.94E-04
1315	396070.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.93E-04	1.93E-04
772	395570.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.92E-04	1.92E-04
1273	396020.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-04	1.91E-04
721	395420.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.90E-04	1.90E-04
658	395270.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-04	1.88E-04
1231	395970.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-04	1.88E-04
1022	395770.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-04	1.88E-04
897	395670.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-04	1.88E-04
759	395520.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-04	1.86E-04
683	395320.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-04	1.86E-04
1189	395920.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.84E-04	1.84E-04
708	395370.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-04	1.81E-04
855	395620.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-04	1.81E-04
746	395470.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-04	1.81E-04
1147	395870.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-04	1.81E-04
980	395720.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.79E-04	1.79E-04
1105	395820.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.77E-04	1.77E-04
1314	396020.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.76E-04	1.76E-04
670	395270.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.76E-04	1.76E-04
813	395570.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.75E-04	1.75E-04
733	395420.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.75E-04	1.75E-04
1272	395970.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.73E-04	1.73E-04
695	395320.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.73E-04	1.73E-04
1063	395770.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.72E-04	1.72E-04
938	395670.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.71E-04	1.71E-04
1230	395920.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.70E-04	1.70E-04
771	395520.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.69E-04	1.69E-04
720	395370.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.68E-04	1.68E-04
1188	395870.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.66E-04	1.66E-04
758	395470.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-04	1.65E-04
1021	395720.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-04	1.65E-04
896	395620.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-04	1.64E-04
682	395270.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-04	1.64E-04
1146	395820.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.63E-04	1.63E-04

707	395320.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.61E-04	1.61E-04
1313	395970.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-04	1.60E-04
745	395420.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-04	1.60E-04
854	395570.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.59E-04	1.59E-04
1104	395770.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.59E-04	1.59E-04
979	395670.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-04	1.58E-04
1271	395920.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.57E-04	1.57E-04
732	395370.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.56E-04	1.56E-04
812	395520.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-04	1.55E-04
694	395270.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.54E-04	1.54E-04
1229	395870.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.54E-04	1.54E-04
1062	395720.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.52E-04	1.52E-04
937	395620.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.52E-04	1.52E-04
770	395470.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.51E-04	1.51E-04
1187	395820.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-04	1.50E-04
719	395320.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-04	1.50E-04
757	395420.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.47E-04	1.47E-04
895	395570.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.47E-04	1.47E-04
1145	395770.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-04	1.46E-04
1020	395670.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-04	1.46E-04
1312	395920.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-04	1.46E-04
706	395270.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.45E-04	1.45E-04
744	395370.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.43E-04	1.43E-04
1270	395870.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.43E-04	1.43E-04
853	395520.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.43E-04	1.43E-04
1103	395720.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-04	1.41E-04
978	395620.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-04	1.41E-04
1228	395820.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.40E-04	1.40E-04
731	395320.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.40E-04	1.40E-04
811	395470.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-04	1.39E-04
1186	395770.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.37E-04	1.37E-04
1061	395670.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-04	1.36E-04
936	395570.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-04	1.36E-04
718	395270.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-04	1.36E-04
769	395420.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-04	1.35E-04
1311	395870.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.34E-04	1.34E-04
756	395370.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.33E-04	1.33E-04
894	395520.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.32E-04	1.32E-04
1144	395720.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.32E-04	1.32E-04
1269	395820.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-04	1.31E-04
1019	395620.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-04	1.31E-04
743	395320.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-04	1.30E-04
852	395470.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.29E-04	1.29E-04
1227	395770.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-04	1.28E-04
730	395270.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.27E-04	1.27E-04
810	395420.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-04	1.26E-04
1102	395670.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.24E-04	1.24E-04

977	395570.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.24E-04	1.24E-04
768	395370.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-04	1.23E-04
1185	395720.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-04	1.21E-04
755	395320.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-04	1.21E-04
1268	395770.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-04	1.21E-04
935	395520.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.20E-04	1.20E-04
1310	395820.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.20E-04	1.20E-04
1060	395620.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-04	1.19E-04
742	395270.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-04	1.19E-04
893	395470.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-04	1.17E-04
1143	395670.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-04	1.16E-04
1018	395570.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-04	1.15E-04
851	395420.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-04	1.15E-04
1226	395720.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-04	1.14E-04
809	395370.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.13E-04	1.13E-04
976	395520.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.11E-04	1.11E-04
767	395320.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.11E-04	1.11E-04
1101	395620.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.11E-04	1.11E-04
1309	395770.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.11E-04	1.11E-04
754	395270.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-04	1.10E-04
934	395470.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-04	1.09E-04
1184	395670.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-04	1.09E-04
1267	395720.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-04	1.08E-04
892	395420.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-04	1.07E-04
1059	395570.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-04	1.07E-04
850	395370.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-04	1.05E-04
1142	395620.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-04	1.04E-04
1017	395520.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-04	1.04E-04
808	395320.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-04	1.03E-04
1225	395670.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-04	1.03E-04
1308	395720.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.02E-04	1.02E-04
766	395270.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.02E-04	1.02E-04
975	395470.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.02E-04	1.02E-04
1100	395570.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-04	1.01E-04
933	395420.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-04	1.01E-04
891	395370.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.93E-05	9.93E-05
1183	395620.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	9.87E-05	9.87E-05
1266	395670.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	9.84E-05	9.84E-05
1058	395520.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	9.82E-05	9.82E-05
849	395320.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.73E-05	9.73E-05
807	395270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	9.59E-05	9.59E-05
1016	395470.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.58E-05	9.58E-05
1141	395570.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	9.51E-05	9.51E-05
974	395420.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.46E-05	9.46E-05
1307	395670.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	9.40E-05	9.40E-05
932	395370.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	9.38E-05	9.38E-05
1224	395620.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	9.38E-05	9.38E-05

1099	395520.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	9.27E-05	9.27E-05
890	395320.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.22E-05	9.22E-05
848	395270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.04E-05	9.04E-05
1057	395470.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	9.03E-05	9.03E-05
1182	395570.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	8.99E-05	8.99E-05
1265	395620.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	8.97E-05	8.97E-05
1015	395420.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.84E-05	8.84E-05
973	395370.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.75E-05	8.75E-05
1140	395520.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	8.72E-05	8.72E-05
931	395320.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.69E-05	8.69E-05
1306	395620.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	8.58E-05	8.58E-05
889	395270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-05	8.53E-05
1223	395570.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	8.51E-05	8.51E-05
1098	395470.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	8.47E-05	8.47E-05
1056	395420.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.30E-05	8.30E-05
1014	395370.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.24E-05	8.24E-05
972	395320.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.23E-05	8.23E-05
1181	395520.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	8.20E-05	8.20E-05
930	395270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.13E-05	8.13E-05
1264	395570.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	8.12E-05	8.12E-05
1139	395470.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	8.02E-05	8.02E-05
1097	395420.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.86E-05	7.86E-05
1222	395520.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	7.79E-05	7.79E-05
1305	395570.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	7.79E-05	7.79E-05
1013	395320.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.76E-05	7.76E-05
1055	395370.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.76E-05	7.76E-05
971	395270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.75E-05	7.75E-05
1180	395470.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	7.60E-05	7.60E-05
1138	395420.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	7.45E-05	7.45E-05
1263	395520.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	7.45E-05	7.45E-05
1096	395370.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.32E-05	7.32E-05
1012	395270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.29E-05	7.29E-05
1054	395320.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.25E-05	7.25E-05
1221	395470.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	7.23E-05	7.23E-05
1304	395520.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	7.17E-05	7.17E-05
1179	395420.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	7.04E-05	7.04E-05
1137	395370.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.90E-05	6.90E-05
1262	395470.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	6.90E-05	6.90E-05
1053	395270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.88E-05	6.88E-05
1095	395320.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.85E-05	6.85E-05
1220	395420.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	6.68E-05	6.68E-05
1178	395370.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.57E-05	6.57E-05
1303	395470.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	6.57E-05	6.57E-05
1136	395320.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.50E-05	6.50E-05
1094	395270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.47E-05	6.47E-05
1261	395420.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	6.38E-05	6.38E-05
1219	395370.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	6.27E-05	6.27E-05

1177	395320.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.12E-05	6.12E-05
1302	395420.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	6.12E-05	6.12E-05
1135	395270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.10E-05	6.10E-05
1260	395370.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.99E-05	5.99E-05
1218	395320.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.84E-05	5.84E-05
1176	395270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.80E-05	5.80E-05
1301	395370.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	5.73E-05	5.73E-05
1259	395320.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.59E-05	5.59E-05
1217	395270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.53E-05	5.53E-05
1300	395320.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	5.37E-05	5.37E-05
1258	395270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.29E-05	5.29E-05
1299	395270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	5.08E-05	5.08E-05

to Minimum

Edwards AFB Solar Facility Project - Construction HRA - Mitigated Non-Cancer Chronic Risk

**HARP 2 - Air Dispersion Modeling and Risk Tool v17320

**2/7/2018

** Chronic Risk Results of All Discrete Sensitive Receptor Points Are Shown - Descending From Maximum to Minimum

REC	X	Y	SCENARIO	RESP	MAXHI
792	396570.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.46E-03	2.46E-03
790	396470.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.44E-03	2.44E-03
791	396520.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.44E-03	2.44E-03
793	396620.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.43E-03	2.43E-03
789	396420.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.41E-03	2.41E-03
788	396370.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.37E-03	2.37E-03
787	396320.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-03	2.31E-03
786	396270.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.25E-03	2.25E-03
794	396668.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-03	2.15E-03
785	396220.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-03	2.15E-03
795	396718.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	2.10E-03	2.10E-03
784	396170.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-03	2.06E-03
796	396768.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	1.96E-03	1.96E-03
783	396120.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.94E-03	1.94E-03
782	396070.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.78E-03	1.78E-03
834	396620.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.69E-03	1.69E-03
833	396570.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.69E-03	1.69E-03
832	396520.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.68E-03	1.68E-03
835	396670.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.67E-03	1.67E-03
797	396818.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	1.66E-03	1.66E-03
831	396470.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.66E-03	1.66E-03
836	396720.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-03	1.64E-03
830	396420.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-03	1.62E-03
781	396020.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-03	1.60E-03
829	396370.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-03	1.58E-03
837	396770.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.56E-03	1.56E-03
828	396320.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.53E-03	1.53E-03
609	395820.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-03	1.50E-03
597	395820.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-03	1.49E-03
621	395820.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-03	1.49E-03
633	395820.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-03	1.48E-03
585	395820.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-03	1.48E-03
827	396270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-03	1.46E-03
645	395820.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-03	1.46E-03
573	395820.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.45E-03	1.45E-03
657	395820.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	1.43E-03	1.43E-03
838	396820.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-03	1.41E-03
669	395820.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	1.40E-03	1.40E-03
826	396220.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-03	1.39E-03
561	395820.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-03	1.39E-03
780	395970.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-03	1.36E-03
681	395820.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-03	1.36E-03
798	396868.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-03	1.35E-03
875	396620.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-03	1.31E-03
876	396670.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-03	1.30E-03

693	395820.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-03	1.30E-03
825	396170.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-03	1.30E-03
874	396570.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-03	1.30E-03
873	396520.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-03	1.28E-03
877	396720.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-03	1.28E-03
872	396470.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-03	1.26E-03
878	396770.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.24E-03	1.24E-03
705	395820.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-03	1.23E-03
839	396870.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-03	1.23E-03
871	396420.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.22E-03	1.22E-03
549	395820.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-03	1.21E-03
824	396120.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-03	1.19E-03
870	396370.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-03	1.18E-03
879	396820.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-03	1.17E-03
717	395820.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-03	1.16E-03
799	396918.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-03	1.15E-03
869	396320.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.13E-03	1.13E-03
840	396920.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-03	1.07E-03
880	396870.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-03	1.07E-03
868	396270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-03	1.07E-03
823	396070.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-03	1.07E-03
729	395820.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-03	1.07E-03
917	396670.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.06E-03	1.06E-03
916	396620.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.06E-03	1.06E-03
918	396720.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-03	1.05E-03
915	396570.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-03	1.05E-03
919	396770.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-03	1.03E-03
914	396520.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-03	1.03E-03
779	395920.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-03	1.01E-03
867	396220.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.00E-03	1.00E-03
913	396470.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.00E-03	1.00E-03
800	396968.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	9.95E-04	9.95E-04
920	396820.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.87E-04	9.87E-04
537	395820.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	9.82E-04	9.82E-04
596	395770.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	9.81E-04	9.81E-04
608	395770.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	9.79E-04	9.79E-04
584	395770.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	9.76E-04	9.76E-04
620	395770.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	9.70E-04	9.70E-04
912	396420.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.67E-04	9.67E-04
881	396920.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.66E-04	9.66E-04
572	395770.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	9.61E-04	9.61E-04
632	395770.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	9.56E-04	9.56E-04
741	395820.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	9.44E-04	9.44E-04
841	396970.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	9.41E-04	9.41E-04
644	395770.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	9.38E-04	9.38E-04
560	395770.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	9.29E-04	9.29E-04
921	396870.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.29E-04	9.29E-04
911	396370.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.25E-04	9.25E-04
866	396170.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.22E-04	9.22E-04
822	396020.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	9.21E-04	9.21E-04
656	395770.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	9.13E-04	9.13E-04
668	395770.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	8.84E-04	8.84E-04

958	396670.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.83E-04	8.83E-04
959	396720.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.81E-04	8.81E-04
910	396320.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.79E-04	8.79E-04
957	396620.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.78E-04	8.78E-04
801	397018.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	8.72E-04	8.72E-04
960	396770.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.70E-04	8.70E-04
548	395770.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	8.70E-04	8.70E-04
882	396970.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.67E-04	8.67E-04
956	396570.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.65E-04	8.65E-04
922	396920.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.61E-04	8.61E-04
961	396820.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.48E-04	8.48E-04
955	396520.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.45E-04	8.45E-04
680	395770.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	8.40E-04	8.40E-04
842	397020.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	8.34E-04	8.34E-04
865	396120.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.32E-04	8.32E-04
909	396270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.26E-04	8.26E-04
525	395820.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	8.21E-04	8.21E-04
954	396470.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.18E-04	8.18E-04
962	396870.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.13E-04	8.13E-04
692	395770.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	7.97E-04	7.97E-04
923	396970.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.90E-04	7.90E-04
953	396420.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.86E-04	7.86E-04
536	395770.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	7.83E-04	7.83E-04
883	397020.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.79E-04	7.79E-04
802	397068.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	7.70E-04	7.70E-04
753	395820.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	7.69E-04	7.69E-04
963	396920.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.67E-04	7.67E-04
908	396220.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-04	7.63E-04
1000	396720.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.53E-04	7.53E-04
999	396670.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.51E-04	7.51E-04
1001	396770.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.49E-04	7.49E-04
952	396370.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.49E-04	7.49E-04
704	395770.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	7.47E-04	7.47E-04
821	395970.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.46E-04	7.46E-04
998	396620.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.43E-04	7.43E-04
843	397070.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.41E-04	7.41E-04
1002	396820.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.36E-04	7.36E-04
864	396070.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.32E-04	7.32E-04
583	395720.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	7.31E-04	7.31E-04
595	395720.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	7.31E-04	7.31E-04
997	396570.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.29E-04	7.29E-04
571	395720.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	7.27E-04	7.27E-04
607	395720.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	7.27E-04	7.27E-04
924	397020.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.22E-04	7.22E-04
619	395720.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	7.19E-04	7.19E-04
964	396970.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.17E-04	7.17E-04
1003	396870.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.15E-04	7.15E-04
559	395720.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	7.12E-04	7.12E-04
996	396520.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.07E-04	7.07E-04
513	395820.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	7.07E-04	7.07E-04
951	396320.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.06E-04	7.06E-04
631	395720.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	7.02E-04	7.02E-04

884	397070.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.01E-04	7.01E-04
524	395770.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-04	6.96E-04
907	396170.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.95E-04	6.95E-04
716	395770.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	6.88E-04	6.88E-04
1004	396920.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.86E-04	6.86E-04
803	397118.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	6.86E-04	6.86E-04
547	395720.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	6.84E-04	6.84E-04
995	396470.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.82E-04	6.82E-04
643	395720.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	6.82E-04	6.82E-04
965	397020.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.65E-04	6.65E-04
844	397120.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	6.63E-04	6.63E-04
655	395720.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	6.60E-04	6.60E-04
925	397070.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.58E-04	6.58E-04
950	396270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.57E-04	6.57E-04
994	396420.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.53E-04	6.53E-04
1042	396770.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.51E-04	6.51E-04
1041	396720.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.51E-04	6.51E-04
1005	396970.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.49E-04	6.49E-04
1040	396670.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.46E-04	6.46E-04
1043	396820.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.46E-04	6.46E-04
535	395720.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	6.42E-04	6.42E-04
1039	396620.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.36E-04	6.36E-04
1044	396870.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.33E-04	6.33E-04
885	397120.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.32E-04	6.32E-04
667	395720.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	6.31E-04	6.31E-04
906	396120.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-04	6.22E-04
501	395820.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	6.21E-04	6.21E-04
1038	396570.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.21E-04	6.21E-04
512	395770.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	6.20E-04	6.20E-04
863	396020.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.20E-04	6.20E-04
993	396370.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.19E-04	6.19E-04
728	395770.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	6.18E-04	6.18E-04
966	397070.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.14E-04	6.14E-04
804	397168.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	6.14E-04	6.14E-04
1045	396920.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.14E-04	6.14E-04
1006	397020.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.11E-04	6.11E-04
949	396220.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.03E-04	6.03E-04
1037	396520.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.02E-04	6.02E-04
679	395720.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	5.99E-04	5.99E-04
926	397120.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.99E-04	5.99E-04
845	397170.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.96E-04	5.96E-04
523	395720.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	5.92E-04	5.92E-04
1046	396970.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.89E-04	5.89E-04
778	395870.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	5.82E-04	5.82E-04
582	395670.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	5.82E-04	5.82E-04
570	395670.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	5.80E-04	5.80E-04
992	396320.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.79E-04	5.79E-04
594	395670.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	5.78E-04	5.78E-04
1036	396470.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.78E-04	5.78E-04
558	395670.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	5.73E-04	5.73E-04
886	397170.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	5.72E-04	5.72E-04
1083	396770.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.72E-04	5.72E-04

1007	397070.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.71E-04	5.71E-04
606	395670.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	5.71E-04	5.71E-04
1084	396820.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.70E-04	5.70E-04
1082	396720.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.69E-04	5.69E-04
967	397120.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.65E-04	5.65E-04
1085	396870.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.63E-04	5.63E-04
691	395720.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	5.63E-04	5.63E-04
1081	396670.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.61E-04	5.61E-04
546	395670.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	5.61E-04	5.61E-04
1047	397020.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.60E-04	5.60E-04
618	395670.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	5.59E-04	5.59E-04
500	395770.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	5.56E-04	5.56E-04
489	395820.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	5.52E-04	5.52E-04
1086	396920.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.51E-04	5.51E-04
1035	396420.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.51E-04	5.51E-04
805	397218.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	5.51E-04	5.51E-04
1080	396620.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.50E-04	5.50E-04
927	397170.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.47E-04	5.47E-04
948	396170.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.46E-04	5.46E-04
820	395920.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.46E-04	5.46E-04
630	395670.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	5.45E-04	5.45E-04
511	395720.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	5.44E-04	5.44E-04
905	396070.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.41E-04	5.41E-04
534	395670.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	5.39E-04	5.39E-04
846	397220.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.37E-04	5.37E-04
1079	396570.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.36E-04	5.36E-04
991	396270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.35E-04	5.35E-04
1087	396970.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.34E-04	5.34E-04
765	395820.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	5.31E-04	5.31E-04
1008	397120.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.30E-04	5.30E-04
740	395770.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	5.30E-04	5.30E-04
1048	397070.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.29E-04	5.29E-04
642	395670.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	5.27E-04	5.27E-04
703	395720.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	5.21E-04	5.21E-04
968	397170.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.20E-04	5.20E-04
887	397220.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	5.19E-04	5.19E-04
1034	396370.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.18E-04	5.18E-04
1078	396520.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.17E-04	5.17E-04
1088	397020.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.14E-04	5.14E-04
522	395670.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	5.10E-04	5.10E-04
1125	396820.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.07E-04	5.07E-04
654	395670.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	5.06E-04	5.06E-04
1124	396770.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.06E-04	5.06E-04
1126	396870.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.03E-04	5.03E-04
488	395770.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	5.03E-04	5.03E-04
1123	396720.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.01E-04	5.01E-04
928	397220.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.00E-04	5.00E-04
499	395720.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	4.98E-04	4.98E-04
806	397268.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	4.97E-04	4.97E-04
1049	397120.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.97E-04	4.97E-04
1127	396920.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.95E-04	4.95E-04
1077	396470.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.95E-04	4.95E-04

862	395970.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	4.95E-04	4.95E-04
477	395820.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	4.95E-04	4.95E-04
1009	397170.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.92E-04	4.92E-04
1122	396670.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.92E-04	4.92E-04
1089	397070.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.90E-04	4.90E-04
990	396220.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.90E-04	4.90E-04
847	397270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	4.87E-04	4.87E-04
947	396120.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	4.85E-04	4.85E-04
1128	396970.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.84E-04	4.84E-04
1033	396320.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.83E-04	4.83E-04
666	395670.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	4.82E-04	4.82E-04
1121	396620.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.81E-04	4.81E-04
569	395620.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	4.80E-04	4.80E-04
969	397220.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	4.79E-04	4.79E-04
581	395620.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	4.79E-04	4.79E-04
557	395620.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	4.78E-04	4.78E-04
510	395670.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	4.78E-04	4.78E-04
593	395620.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-04	4.73E-04
715	395720.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-04	4.73E-04
888	397270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-04	4.73E-04
545	395620.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	4.71E-04	4.71E-04
1129	397020.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.70E-04	4.70E-04
1076	396420.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.69E-04	4.69E-04
1120	396570.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.66E-04	4.66E-04
1050	397170.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.65E-04	4.65E-04
605	395620.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	4.65E-04	4.65E-04
1090	397120.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.64E-04	4.64E-04
533	395620.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	4.58E-04	4.58E-04
929	397270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	4.57E-04	4.57E-04
487	395720.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	4.57E-04	4.57E-04
1010	397220.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.57E-04	4.57E-04
476	395770.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	4.55E-04	4.55E-04
904	396020.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	4.54E-04	4.54E-04
678	395670.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	4.54E-04	4.54E-04
617	395620.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	4.53E-04	4.53E-04
1166	396820.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.53E-04	4.53E-04
1130	397070.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.53E-04	4.53E-04
1167	396870.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.52E-04	4.52E-04
1165	396770.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.50E-04	4.50E-04
1119	396520.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.49E-04	4.49E-04
1168	396920.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.48E-04	4.48E-04
465	395820.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	4.47E-04	4.47E-04
498	395670.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	4.46E-04	4.46E-04
1032	396270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.46E-04	4.46E-04
1164	396720.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.44E-04	4.44E-04
521	395620.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	4.44E-04	4.44E-04
989	396170.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.41E-04	4.41E-04
970	397270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	4.41E-04	4.41E-04
1169	396970.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.40E-04	4.40E-04
1075	396370.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.40E-04	4.40E-04
629	395620.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	4.39E-04	4.39E-04
1091	397170.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.38E-04	4.38E-04

1051	397220.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.35E-04	4.35E-04
1163	396670.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.35E-04	4.35E-04
1131	397120.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.33E-04	4.33E-04
752	395770.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	4.31E-04	4.31E-04
1170	397020.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.31E-04	4.31E-04
1118	396470.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.27E-04	4.27E-04
1011	397270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.23E-04	4.23E-04
1162	396620.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.23E-04	4.23E-04
509	395620.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	4.23E-04	4.23E-04
641	395620.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.23E-04	4.23E-04
690	395670.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	4.23E-04	4.23E-04
946	396070.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	4.21E-04	4.21E-04
475	395720.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	4.20E-04	4.20E-04
727	395720.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-04	4.18E-04
1171	397070.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-04	4.18E-04
486	395670.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	4.16E-04	4.16E-04
464	395770.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	4.13E-04	4.13E-04
1092	397220.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.12E-04	4.12E-04
1132	397170.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.12E-04	4.12E-04
1074	396320.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.09E-04	4.09E-04
1161	396570.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.09E-04	4.09E-04
1208	396870.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.08E-04	4.08E-04
1207	396820.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.07E-04	4.07E-04
453	395820.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	4.07E-04	4.07E-04
556	395570.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	4.07E-04	4.07E-04
1031	396220.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.06E-04	4.06E-04
1209	396920.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.06E-04	4.06E-04
568	395570.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	4.06E-04	4.06E-04
1052	397270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.05E-04	4.05E-04
544	395570.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	4.04E-04	4.04E-04
653	395620.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	4.04E-04	4.04E-04
1117	396420.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.03E-04	4.03E-04
1172	397120.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.03E-04	4.03E-04
1206	396770.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.03E-04	4.03E-04
580	395570.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	4.02E-04	4.02E-04
1210	396970.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.01E-04	4.01E-04
497	395620.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	4.00E-04	4.00E-04
532	395570.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	3.97E-04	3.97E-04
1205	396720.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.96E-04	3.96E-04
592	395570.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	3.95E-04	3.95E-04
1211	397020.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.95E-04	3.95E-04
1160	396520.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.91E-04	3.91E-04
988	396120.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.91E-04	3.91E-04
1133	397220.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.90E-04	3.90E-04
520	395570.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	3.87E-04	3.87E-04
702	395670.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	3.87E-04	3.87E-04
474	395670.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	3.87E-04	3.87E-04
1093	397270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.87E-04	3.87E-04
604	395570.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	3.87E-04	3.87E-04
1173	397170.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.86E-04	3.86E-04
1204	396670.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.86E-04	3.86E-04
1212	397070.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.86E-04	3.86E-04

463	395720.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	3.86E-04	3.86E-04
861	395920.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	3.83E-04	3.83E-04
665	395620.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	3.82E-04	3.82E-04
819	395870.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	3.82E-04	3.82E-04
452	395770.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.80E-04	3.80E-04
1116	396370.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.78E-04	3.78E-04
1073	396270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.77E-04	3.77E-04
485	395620.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	3.77E-04	3.77E-04
616	395570.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-04	3.75E-04
1213	397120.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-04	3.75E-04
508	395570.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	3.74E-04	3.74E-04
1203	396620.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.74E-04	3.74E-04
1159	396470.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.72E-04	3.72E-04
903	395970.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	3.71E-04	3.71E-04
1249	396870.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.70E-04	3.70E-04
1250	396920.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.69E-04	3.69E-04
1134	397270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.68E-04	3.68E-04
1174	397220.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.68E-04	3.68E-04
1248	396820.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.67E-04	3.67E-04
1251	396970.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.67E-04	3.67E-04
1030	396170.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.65E-04	3.65E-04
1252	397020.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.62E-04	3.62E-04
1247	396770.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.62E-04	3.62E-04
1214	397170.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.62E-04	3.62E-04
628	395570.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.61E-04	3.61E-04
777	395820.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.60E-04	3.60E-04
496	395570.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	3.60E-04	3.60E-04
1202	396570.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.60E-04	3.60E-04
739	395720.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	3.60E-04	3.60E-04
462	395670.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	3.59E-04	3.59E-04
451	395720.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.57E-04	3.57E-04
1253	397070.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.56E-04	3.56E-04
677	395620.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	3.56E-04	3.56E-04
473	395620.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	3.55E-04	3.55E-04
945	396020.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	3.55E-04	3.55E-04
1246	396720.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.54E-04	3.54E-04
1115	396320.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.51E-04	3.51E-04
1158	396420.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.51E-04	3.51E-04
555	395520.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	3.50E-04	3.50E-04
1175	397270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.50E-04	3.50E-04
543	395520.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	3.50E-04	3.50E-04
714	395670.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	3.49E-04	3.49E-04
1254	397120.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.48E-04	3.48E-04
567	395520.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	3.48E-04	3.48E-04
1215	397220.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.48E-04	3.48E-04
531	395520.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	3.47E-04	3.47E-04
640	395570.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	3.45E-04	3.45E-04
1245	396670.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.45E-04	3.45E-04
1201	396520.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.44E-04	3.44E-04
1072	396220.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.43E-04	3.43E-04
484	395570.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	3.43E-04	3.43E-04
579	395520.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	3.42E-04	3.42E-04

519	395520.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	3.41E-04	3.41E-04
1255	397170.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.39E-04	3.39E-04
987	396070.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.38E-04	3.38E-04
1291	396920.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.37E-04	3.37E-04
1290	396870.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.36E-04	3.36E-04
1292	396970.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.36E-04	3.36E-04
591	395520.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	3.35E-04	3.35E-04
764	395770.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	3.35E-04	3.35E-04
450	395670.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.34E-04	3.34E-04
461	395620.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	3.34E-04	3.34E-04
507	395520.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-04	3.33E-04
1293	397020.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-04	3.33E-04
1289	396820.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-04	3.33E-04
1244	396620.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.32E-04	3.32E-04
1216	397270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.32E-04	3.32E-04
689	395620.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	3.30E-04	3.30E-04
1294	397070.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.29E-04	3.29E-04
1157	396370.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.28E-04	3.28E-04
652	395570.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	3.28E-04	3.28E-04
1256	397220.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.27E-04	3.27E-04
1200	396470.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.27E-04	3.27E-04
1288	396770.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.27E-04	3.27E-04
472	395570.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	3.25E-04	3.25E-04
603	395520.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	3.25E-04	3.25E-04
1029	396120.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.24E-04	3.24E-04
1295	397120.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.24E-04	3.24E-04
1114	396270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.23E-04	3.23E-04
495	395520.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	3.23E-04	3.23E-04
1243	396570.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.19E-04	3.19E-04
1287	396720.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.18E-04	3.18E-04
1296	397170.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.16E-04	3.16E-04
1257	397270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.14E-04	3.14E-04
449	395620.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	3.14E-04	3.14E-04
615	395520.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.14E-04	3.14E-04
483	395520.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	3.11E-04	3.11E-04
726	395670.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	3.10E-04	3.10E-04
664	395570.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	3.09E-04	3.09E-04
460	395570.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	3.09E-04	3.09E-04
1071	396170.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.09E-04	3.09E-04
1333	396970.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.08E-04	3.08E-04
1332	396920.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.08E-04	3.08E-04
1286	396670.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.08E-04	3.08E-04
1199	396420.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.08E-04	3.08E-04
1297	397220.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.08E-04	3.08E-04
1334	397020.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.07E-04	3.07E-04
542	395470.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	3.06E-04	3.06E-04
1331	396870.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.06E-04	3.06E-04
530	395470.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-04	3.05E-04
1242	396520.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-04	3.05E-04
1335	397070.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-04	3.05E-04
1156	396320.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-04	3.05E-04
554	395470.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	3.03E-04	3.03E-04

518	395470.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	3.03E-04	3.03E-04
701	395620.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	3.02E-04	3.02E-04
627	395520.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.02E-04	3.02E-04
1330	396820.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.02E-04	3.02E-04
1336	397120.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.01E-04	3.01E-04
751	395720.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	3.01E-04	3.01E-04
566	395470.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	3.00E-04	3.00E-04
902	395920.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.99E-04	2.99E-04
471	395520.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	2.98E-04	2.98E-04
506	395470.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	2.98E-04	2.98E-04
1298	397270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.97E-04	2.97E-04
1285	396620.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.97E-04	2.97E-04
944	395970.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.97E-04	2.97E-04
1337	397170.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.96E-04	2.96E-04
1329	396770.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.95E-04	2.95E-04
860	395870.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.95E-04	2.95E-04
1113	396220.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.94E-04	2.94E-04
578	395470.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	2.94E-04	2.94E-04
448	395570.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	2.93E-04	2.93E-04
494	395470.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	2.92E-04	2.92E-04
986	396020.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.91E-04	2.91E-04
1241	396470.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.89E-04	2.89E-04
676	395570.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	2.89E-04	2.89E-04
1338	397220.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.89E-04	2.89E-04
639	395520.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.88E-04	2.88E-04
1198	396370.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.88E-04	2.88E-04
1328	396720.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.87E-04	2.87E-04
590	395470.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.86E-04	2.86E-04
459	395520.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	2.85E-04	2.85E-04
1284	396570.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.85E-04	2.85E-04
482	395470.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	2.83E-04	2.83E-04
1028	396070.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.82E-04	2.82E-04
818	395820.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.82E-04	2.82E-04
1339	397270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.81E-04	2.81E-04
1155	396270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.80E-04	2.80E-04
602	395470.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.78E-04	2.78E-04
1327	396670.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.77E-04	2.77E-04
470	395470.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	2.74E-04	2.74E-04
1070	396120.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.73E-04	2.73E-04
651	395520.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	2.73E-04	2.73E-04
713	395620.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	2.73E-04	2.73E-04
447	395520.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	2.72E-04	2.72E-04
1240	396420.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.72E-04	2.72E-04
1283	396520.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.72E-04	2.72E-04
529	395420.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	2.70E-04	2.70E-04
738	395670.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	2.69E-04	2.69E-04
517	395420.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	2.69E-04	2.69E-04
541	395420.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	2.69E-04	2.69E-04
614	395470.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.68E-04	2.68E-04
688	395570.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	2.67E-04	2.67E-04
505	395420.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	2.67E-04	2.67E-04
1326	396620.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.67E-04	2.67E-04

1197	396320.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.66E-04	2.66E-04
553	395420.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	2.66E-04	2.66E-04
1112	396170.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.65E-04	2.65E-04
776	395770.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.64E-04	2.64E-04
493	395420.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	2.63E-04	2.63E-04
458	395470.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	2.63E-04	2.63E-04
565	395420.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	2.62E-04	2.62E-04
481	395420.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	2.58E-04	2.58E-04
663	395520.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	2.57E-04	2.57E-04
626	395470.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.57E-04	2.57E-04
1282	396470.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.56E-04	2.56E-04
577	395420.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	2.56E-04	2.56E-04
1154	396220.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.55E-04	2.55E-04
1325	396570.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.54E-04	2.54E-04
446	395470.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	2.53E-04	2.53E-04
1239	396370.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.53E-04	2.53E-04
469	395420.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	2.52E-04	2.52E-04
763	395720.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	2.49E-04	2.49E-04
589	395420.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.48E-04	2.48E-04
985	395970.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.48E-04	2.48E-04
943	395920.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.47E-04	2.47E-04
1027	396020.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.45E-04	2.45E-04
700	395570.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	2.44E-04	2.44E-04
1196	396270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.44E-04	2.44E-04
638	395470.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.44E-04	2.44E-04
457	395420.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	2.43E-04	2.43E-04
725	395620.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	2.43E-04	2.43E-04
1324	396520.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.42E-04	2.42E-04
901	395870.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.42E-04	2.42E-04
1069	396070.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.41E-04	2.41E-04
1281	396420.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.41E-04	2.41E-04
516	395370.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	2.41E-04	2.41E-04
528	395370.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	2.40E-04	2.40E-04
504	395370.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	2.40E-04	2.40E-04
601	395420.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.40E-04	2.40E-04
675	395520.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	2.40E-04	2.40E-04
540	395370.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	2.39E-04	2.39E-04
492	395370.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	2.38E-04	2.38E-04
1111	396120.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.36E-04	2.36E-04
552	395370.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	2.35E-04	2.35E-04
480	395370.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	2.35E-04	2.35E-04
445	395420.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	2.35E-04	2.35E-04
1238	396320.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.35E-04	2.35E-04
859	395820.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.33E-04	2.33E-04
650	395470.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-04	2.31E-04
750	395670.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-04	2.31E-04
613	395420.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-04	2.31E-04
564	395370.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-04	2.31E-04
468	395370.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-04	2.31E-04
1153	396170.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.30E-04	2.30E-04
1323	396470.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-04	2.29E-04
1280	396370.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.25E-04	2.25E-04

456	395370.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	2.25E-04	2.25E-04
576	395370.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	2.25E-04	2.25E-04
1195	396220.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.24E-04	2.24E-04
687	395520.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	2.21E-04	2.21E-04
712	395570.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	2.21E-04	2.21E-04
625	395420.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.20E-04	2.20E-04
817	395770.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.20E-04	2.20E-04
444	395370.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-04	2.18E-04
503	395320.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-04	2.17E-04
588	395370.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-04	2.17E-04
662	395470.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-04	2.17E-04
515	395320.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-04	2.17E-04
491	395320.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-04	2.17E-04
1237	396270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.16E-04	2.16E-04
1322	396420.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.16E-04	2.16E-04
527	395320.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-04	2.15E-04
479	395320.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-04	2.15E-04
737	395620.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	2.14E-04	2.14E-04
539	395320.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-04	2.13E-04
1026	395970.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.12E-04	2.12E-04
467	395320.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	2.12E-04	2.12E-04
1068	396020.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.12E-04	2.12E-04
1110	396070.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-04	2.11E-04
984	395920.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.10E-04	2.10E-04
551	395320.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-04	2.09E-04
637	395420.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-04	2.09E-04
1279	396320.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-04	2.09E-04
600	395370.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-04	2.09E-04
775	395720.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.08E-04	2.08E-04
455	395320.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	2.08E-04	2.08E-04
1152	396120.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.08E-04	2.08E-04
942	395870.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-04	2.06E-04
563	395320.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	2.05E-04	2.05E-04
1194	396170.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.04E-04	2.04E-04
443	395320.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	2.03E-04	2.03E-04
699	395520.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	2.02E-04	2.02E-04
674	395470.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	2.02E-04	2.02E-04
1321	396370.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.01E-04	2.01E-04
612	395370.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-04	2.00E-04
575	395320.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-04	1.99E-04
900	395820.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-04	1.99E-04
1236	396220.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-04	1.99E-04
724	395570.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.98E-04	1.98E-04
762	395670.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.98E-04	1.98E-04
649	395420.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-04	1.97E-04
490	395270.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-04	1.97E-04
502	395270.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-04	1.97E-04
478	395270.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	1.96E-04	1.96E-04
514	395270.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	1.95E-04	1.95E-04
466	395270.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	1.95E-04	1.95E-04
1278	396270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.94E-04	1.94E-04
526	395270.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.93E-04	1.93E-04

454	395270.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	1.93E-04	1.93E-04
587	395320.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-04	1.91E-04
624	395370.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-04	1.91E-04
538	395270.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-04	1.91E-04
442	395270.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	1.89E-04	1.89E-04
858	395770.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.89E-04	1.89E-04
1320	396320.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.87E-04	1.87E-04
550	395270.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.87E-04	1.87E-04
749	395620.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.87E-04	1.87E-04
1109	396020.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.87E-04	1.87E-04
1151	396070.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-04	1.86E-04
686	395470.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-04	1.86E-04
1067	395970.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.85E-04	1.85E-04
1193	396120.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.85E-04	1.85E-04
661	395420.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	1.85E-04	1.85E-04
599	395320.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	1.84E-04	1.84E-04
711	395520.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.83E-04	1.83E-04
562	395270.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-04	1.82E-04
1025	395920.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-04	1.82E-04
1235	396170.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-04	1.82E-04
636	395370.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-04	1.81E-04
983	395870.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.79E-04	1.79E-04
816	395720.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.79E-04	1.79E-04
1277	396220.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.78E-04	1.78E-04
574	395270.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.77E-04	1.77E-04
736	395570.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.76E-04	1.76E-04
611	395320.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	1.76E-04	1.76E-04
941	395820.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.74E-04	1.74E-04
1319	396270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.74E-04	1.74E-04
673	395420.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.72E-04	1.72E-04
648	395370.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	1.71E-04	1.71E-04
774	395670.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.71E-04	1.71E-04
586	395270.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.70E-04	1.70E-04
698	395470.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.70E-04	1.70E-04
623	395320.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	1.67E-04	1.67E-04
1192	396070.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.67E-04	1.67E-04
899	395770.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.66E-04	1.66E-04
1150	396020.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.66E-04	1.66E-04
1234	396120.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.66E-04	1.66E-04
723	395520.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-04	1.65E-04
1108	395970.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-04	1.64E-04
1276	396170.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-04	1.64E-04
761	395620.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.63E-04	1.63E-04
598	395270.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	1.63E-04	1.63E-04
1066	395920.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.61E-04	1.61E-04
1318	396220.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.61E-04	1.61E-04
660	395370.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-04	1.60E-04
685	395420.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.59E-04	1.59E-04
1024	395870.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-04	1.58E-04
635	395320.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-04	1.58E-04
857	395720.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-04	1.58E-04
748	395570.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.56E-04	1.56E-04

610	395270.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-04	1.55E-04
710	395470.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-04	1.55E-04
982	395820.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-04	1.55E-04
815	395670.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.51E-04	1.51E-04
1233	396070.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-04	1.50E-04
1275	396120.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-04	1.50E-04
1191	396020.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-04	1.49E-04
647	395320.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-04	1.49E-04
735	395520.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-04	1.49E-04
1317	396170.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-04	1.49E-04
940	395770.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-04	1.49E-04
672	395370.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-04	1.49E-04
622	395270.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	1.47E-04	1.47E-04
1149	395970.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.47E-04	1.47E-04
697	395420.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-04	1.46E-04
1107	395920.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.45E-04	1.45E-04
773	395620.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.45E-04	1.45E-04
1065	395870.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.42E-04	1.42E-04
898	395720.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.42E-04	1.42E-04
722	395470.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.42E-04	1.42E-04
659	395320.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-04	1.39E-04
760	395570.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-04	1.39E-04
634	395270.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-04	1.39E-04
1023	395820.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-04	1.39E-04
684	395370.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.38E-04	1.38E-04
1316	396120.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.37E-04	1.37E-04
1274	396070.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.37E-04	1.37E-04
1232	396020.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-04	1.36E-04
856	395670.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-04	1.35E-04
709	395420.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.34E-04	1.34E-04
981	395770.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.34E-04	1.34E-04
747	395520.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.34E-04	1.34E-04
1190	395970.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.34E-04	1.34E-04
1148	395920.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-04	1.31E-04
646	395270.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-04	1.31E-04
671	395320.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-04	1.30E-04
814	395620.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-04	1.30E-04
734	395470.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.29E-04	1.29E-04
1106	395870.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.29E-04	1.29E-04
939	395720.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-04	1.28E-04
696	395370.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.27E-04	1.27E-04
1064	395820.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-04	1.26E-04
1315	396070.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-04	1.26E-04
772	395570.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.25E-04	1.25E-04
1273	396020.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.25E-04	1.25E-04
721	395420.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.24E-04	1.24E-04
658	395270.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-04	1.23E-04
1231	395970.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-04	1.23E-04
1022	395770.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.22E-04	1.22E-04
897	395670.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.22E-04	1.22E-04
759	395520.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-04	1.21E-04
683	395320.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-04	1.21E-04

1189	395920.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.20E-04	1.20E-04
708	395370.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-04	1.18E-04
855	395620.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-04	1.18E-04
746	395470.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-04	1.18E-04
1147	395870.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.18E-04	1.18E-04
980	395720.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-04	1.17E-04
1105	395820.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-04	1.15E-04
1314	396020.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-04	1.15E-04
670	395270.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-04	1.14E-04
813	395570.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-04	1.14E-04
733	395420.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-04	1.14E-04
1272	395970.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.13E-04	1.13E-04
695	395320.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.13E-04	1.13E-04
1063	395770.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-04	1.12E-04
938	395670.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-04	1.12E-04
1230	395920.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.11E-04	1.11E-04
771	395520.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-04	1.10E-04
720	395370.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-04	1.10E-04
1188	395870.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-04	1.08E-04
758	395470.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-04	1.07E-04
1021	395720.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-04	1.07E-04
896	395620.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-04	1.07E-04
682	395270.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-04	1.07E-04
1146	395820.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.06E-04	1.06E-04
707	395320.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-04	1.05E-04
1313	395970.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-04	1.04E-04
745	395420.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-04	1.04E-04
854	395570.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-04	1.04E-04
1104	395770.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-04	1.03E-04
979	395670.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-04	1.03E-04
1271	395920.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.02E-04	1.02E-04
732	395370.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-04	1.01E-04
812	395520.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-04	1.01E-04
694	395270.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.00E-04	1.00E-04
1229	395870.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.00E-04	1.00E-04
1062	395720.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	9.92E-05	9.92E-05
937	395620.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	9.88E-05	9.88E-05
770	395470.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	9.84E-05	9.84E-05
1187	395820.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	9.79E-05	9.79E-05
719	395320.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	9.76E-05	9.76E-05
757	395420.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	9.57E-05	9.57E-05
895	395570.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.56E-05	9.56E-05
1145	395770.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	9.54E-05	9.54E-05
1020	395670.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.53E-05	9.53E-05
1312	395920.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	9.51E-05	9.51E-05
706	395270.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	9.44E-05	9.44E-05
744	395370.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	9.34E-05	9.34E-05
1270	395870.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	9.32E-05	9.32E-05
853	395520.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.29E-05	9.29E-05
1103	395720.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	9.21E-05	9.21E-05
978	395620.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.16E-05	9.16E-05
1228	395820.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	9.13E-05	9.13E-05

731	395320.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	9.09E-05	9.09E-05
811	395470.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	9.04E-05	9.04E-05
1186	395770.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	8.90E-05	8.90E-05
1061	395670.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.86E-05	8.86E-05
936	395570.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.85E-05	8.85E-05
718	395270.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	8.83E-05	8.83E-05
769	395420.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	8.82E-05	8.82E-05
1311	395870.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	8.73E-05	8.73E-05
756	395370.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	8.65E-05	8.65E-05
894	395520.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.62E-05	8.62E-05
1144	395720.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	8.61E-05	8.61E-05
1269	395820.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	8.56E-05	8.56E-05
1019	395620.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-05	8.53E-05
743	395320.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	8.46E-05	8.46E-05
852	395470.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.41E-05	8.41E-05
1227	395770.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	8.35E-05	8.35E-05
730	395270.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	8.26E-05	8.26E-05
810	395420.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	8.19E-05	8.19E-05
1102	395670.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	8.09E-05	8.09E-05
977	395570.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.05E-05	8.05E-05
768	395370.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	8.03E-05	8.03E-05
1185	395720.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	7.89E-05	7.89E-05
755	395320.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	7.88E-05	7.88E-05
1268	395770.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	7.87E-05	7.87E-05
935	395520.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.81E-05	7.81E-05
1310	395820.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	7.80E-05	7.80E-05
1060	395620.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.76E-05	7.76E-05
742	395270.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	7.73E-05	7.73E-05
893	395470.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.65E-05	7.65E-05
1143	395670.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	7.57E-05	7.57E-05
1018	395570.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.49E-05	7.49E-05
851	395420.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.47E-05	7.47E-05
1226	395720.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	7.42E-05	7.42E-05
809	395370.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.34E-05	7.34E-05
976	395520.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.24E-05	7.24E-05
767	395320.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	7.23E-05	7.23E-05
1101	395620.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.23E-05	7.23E-05
1309	395770.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	7.20E-05	7.20E-05
754	395270.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	7.14E-05	7.14E-05
934	395470.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.11E-05	7.11E-05
1184	395670.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	7.09E-05	7.09E-05
1267	395720.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	7.01E-05	7.01E-05
892	395420.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.00E-05	7.00E-05
1059	395570.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.00E-05	7.00E-05
850	395370.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.85E-05	6.85E-05
1142	395620.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.80E-05	6.80E-05
1017	395520.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.79E-05	6.79E-05
808	395320.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	6.74E-05	6.74E-05
1225	395670.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	6.72E-05	6.72E-05
1308	395720.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	6.67E-05	6.67E-05
766	395270.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	6.65E-05	6.65E-05
975	395470.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.64E-05	6.64E-05

1100	395570.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.58E-05	6.58E-05
933	395420.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.57E-05	6.57E-05
891	395370.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.47E-05	6.47E-05
1183	395620.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.43E-05	6.43E-05
1266	395670.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	6.41E-05	6.41E-05
1058	395520.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.40E-05	6.40E-05
849	395320.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.34E-05	6.34E-05
807	395270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	6.25E-05	6.25E-05
1016	395470.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.24E-05	6.24E-05
1141	395570.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.20E-05	6.20E-05
974	395420.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.16E-05	6.16E-05
1307	395670.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	6.13E-05	6.13E-05
932	395370.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.11E-05	6.11E-05
1224	395620.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	6.11E-05	6.11E-05
1099	395520.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.04E-05	6.04E-05
890	395320.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.01E-05	6.01E-05
848	395270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	5.89E-05	5.89E-05
1057	395470.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.89E-05	5.89E-05
1182	395570.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.86E-05	5.86E-05
1265	395620.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.84E-05	5.84E-05
1015	395420.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.76E-05	5.76E-05
973	395370.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.70E-05	5.70E-05
1140	395520.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.68E-05	5.68E-05
931	395320.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.66E-05	5.66E-05
1306	395620.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	5.59E-05	5.59E-05
889	395270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.56E-05	5.56E-05
1223	395570.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.54E-05	5.54E-05
1098	395470.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.52E-05	5.52E-05
1056	395420.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.41E-05	5.41E-05
1014	395370.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.37E-05	5.37E-05
972	395320.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.36E-05	5.36E-05
1181	395520.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.34E-05	5.34E-05
930	395270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.30E-05	5.30E-05
1264	395570.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.29E-05	5.29E-05
1139	395470.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.22E-05	5.22E-05
1097	395420.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.12E-05	5.12E-05
1222	395520.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.08E-05	5.08E-05
1305	395570.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	5.08E-05	5.08E-05
1013	395320.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.06E-05	5.06E-05
1055	395370.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.06E-05	5.06E-05
971	395270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.05E-05	5.05E-05
1180	395470.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.95E-05	4.95E-05
1138	395420.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.86E-05	4.86E-05
1263	395520.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.86E-05	4.86E-05
1096	395370.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.77E-05	4.77E-05
1012	395270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.75E-05	4.75E-05
1054	395320.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.72E-05	4.72E-05
1221	395470.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.71E-05	4.71E-05
1304	395520.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.67E-05	4.67E-05
1179	395420.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.59E-05	4.59E-05
1137	395370.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.50E-05	4.50E-05
1262	395470.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.50E-05	4.50E-05

1053	395270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.48E-05	4.48E-05
1095	395320.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.47E-05	4.47E-05
1220	395420.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.35E-05	4.35E-05
1178	395370.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.28E-05	4.28E-05
1303	395470.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.28E-05	4.28E-05
1136	395320.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.23E-05	4.23E-05
1094	395270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.21E-05	4.21E-05
1261	395420.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.15E-05	4.15E-05
1219	395370.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.08E-05	4.08E-05
1177	395320.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.99E-05	3.99E-05
1302	395420.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.99E-05	3.99E-05
1135	395270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.98E-05	3.98E-05
1260	395370.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.90E-05	3.90E-05
1218	395320.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.80E-05	3.80E-05
1176	395270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.78E-05	3.78E-05
1301	395370.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.73E-05	3.73E-05
1259	395320.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.64E-05	3.64E-05
1217	395270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.60E-05	3.60E-05
1300	395320.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.50E-05	3.50E-05
1258	395270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.44E-05	3.44E-05
1299	395270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.31E-05	3.31E-05

HARP 2 Outputs

Operations

Edwards AFB Solar Facility Project - Operational HRA - Cancer Health Risk

**HARP 2 - Air Dispersion Modeling and Risk Tool v17320

**2/10/2018

** Cancer Risk Results of All Discrete Sensitive Receptor Points Are Shown - Descending From Maximum to Minimum

REC	X	Y	RISK_SUM	SCENARIO	INH_RISK
779	395920.7	3869976	9.23E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.23E-08
780	395970.7	3869976	7.16E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.16E-08
781	396020.7	3869976	3.45E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.45E-08
821	395970.7	3870026	3.15E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.15E-08
822	396020.7	3870026	2.50E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.50E-08
778	395870.7	3869976	2.45E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.45E-08
820	395920.7	3870026	2.20E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.20E-08
782	396070.7	3869976	1.81E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-08
753	395820.7	3869876	1.74E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.74E-08
823	396070.7	3870026	1.64E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.64E-08
863	396020.7	3870076	1.50E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-08
765	395820.7	3869926	1.44E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.44E-08
862	395970.7	3870076	1.37E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-08
864	396070.7	3870076	1.25E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-08
783	396120.7	3869976	1.07E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-08
824	396120.7	3870026	1.06E-08	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-08
865	396120.7	3870076	9.39E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.39E-09
905	396070.7	3870126	8.66E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.66E-09
904	396020.7	3870126	8.60E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.60E-09
741	395820.7	3869826	8.21E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.21E-09
861	395920.7	3870076	8.16E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.16E-09
906	396120.7	3870126	7.52E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.52E-09
819	395870.7	3870026	7.52E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.52E-09
825	396170.7	3870026	7.13E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.13E-09
784	396170.7	3869976	6.93E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.93E-09
866	396170.7	3870076	6.82E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.82E-09
903	395970.7	3870126	6.68E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.68E-09
777	395820.7	3869976	6.61E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.61E-09
752	395770.7	3869876	6.09E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.09E-09
907	396170.7	3870126	6.04E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.04E-09
946	396070.7	3870176	5.73E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-09
947	396120.7	3870176	5.62E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.62E-09
945	396020.7	3870176	5.03E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.03E-09
826	396220.7	3870026	5.02E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.02E-09
867	396220.7	3870076	4.99E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.99E-09
948	396170.7	3870176	4.99E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.99E-09
785	396220.7	3869976	4.83E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.83E-09
740	395770.7	3869826	4.78E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.78E-09
908	396220.7	3870126	4.71E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.71E-09
764	395770.7	3869926	4.51E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.51E-09
949	396220.7	3870176	4.19E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.19E-09
988	396120.7	3870226	4.05E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.05E-09
902	395920.7	3870126	3.96E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.96E-09
989	396170.7	3870226	3.92E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.92E-09

987	396070.7	3870226	3.77E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.77E-09
868	396270.7	3870076	3.73E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.73E-09
827	396270.7	3870026	3.69E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-09
944	395970.7	3870176	3.67E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.67E-09
909	396270.7	3870126	3.66E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.66E-09
990	396220.7	3870226	3.55E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.55E-09
786	396270.7	3869976	3.54E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.54E-09
860	395870.7	3870076	3.53E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-09
729	395820.7	3869776	3.53E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-09
950	396270.7	3870176	3.43E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.43E-09
818	395820.7	3870026	3.25E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.25E-09
986	396020.7	3870226	3.09E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.09E-09
991	396270.7	3870226	3.07E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.07E-09
1030	396170.7	3870276	2.99E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.99E-09
1031	396220.7	3870276	2.89E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.89E-09
1029	396120.7	3870276	2.89E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.89E-09
751	395720.7	3869876	2.88E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.88E-09
869	396320.7	3870076	2.86E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.86E-09
910	396320.7	3870126	2.86E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.86E-09
728	395770.7	3869776	2.83E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.83E-09
776	395770.7	3869976	2.82E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.82E-09
828	396320.7	3870026	2.81E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-09
951	396320.7	3870176	2.78E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.78E-09
739	395720.7	3869826	2.77E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.77E-09
787	396320.7	3869976	2.70E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.70E-09
1032	396270.7	3870276	2.65E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.65E-09
992	396320.7	3870226	2.60E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.60E-09
1028	396070.7	3870276	2.53E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.53E-09
1033	396320.7	3870276	2.34E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.34E-09
1072	396220.7	3870326	2.29E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.29E-09
911	396370.7	3870126	2.27E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.27E-09
943	395920.7	3870176	2.26E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.26E-09
952	396370.7	3870176	2.25E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.25E-09
1071	396170.7	3870326	2.25E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.25E-09
870	396370.7	3870076	2.25E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.25E-09
985	395970.7	3870226	2.22E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.22E-09
1073	396270.7	3870326	2.21E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.21E-09
829	396370.7	3870026	2.20E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.20E-09
993	396370.7	3870226	2.17E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.17E-09
788	396370.7	3869976	2.12E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.12E-09
763	395720.7	3869926	2.09E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.09E-09
1070	396120.7	3870326	2.06E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.06E-09
727	395720.7	3869776	2.05E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.05E-09
1074	396320.7	3870326	2.05E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.05E-09
1034	396370.7	3870276	2.03E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.03E-09
1027	396020.7	3870276	2.01E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.01E-09
901	395870.7	3870126	1.98E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.98E-09
817	395770.7	3870026	1.87E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.87E-09
953	396420.7	3870176	1.84E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-09
1075	396370.7	3870326	1.84E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-09
912	396420.7	3870126	1.84E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.84E-09

717	395820.7	3869726	1.81E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-09
994	396420.7	3870226	1.81E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-09
859	395820.7	3870076	1.81E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-09
871	396420.7	3870076	1.81E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-09
1114	396270.7	3870376	1.81E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.81E-09
1113	396220.7	3870376	1.80E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.80E-09
830	396420.7	3870026	1.77E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.77E-09
1069	396070.7	3870326	1.75E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.75E-09
1115	396320.7	3870376	1.75E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.75E-09
1035	396420.7	3870276	1.74E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.74E-09
738	395670.7	3869826	1.72E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.72E-09
789	396420.7	3869976	1.71E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.71E-09
1112	396170.7	3870376	1.69E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.69E-09
716	395770.7	3869726	1.65E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.65E-09
1116	396370.7	3870376	1.63E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-09
1076	396420.7	3870326	1.63E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-09
750	395670.7	3869876	1.61E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-09
954	396470.7	3870176	1.52E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.52E-09
995	396470.7	3870226	1.52E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.52E-09
913	396470.7	3870126	1.51E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.51E-09
1111	396120.7	3870376	1.50E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.50E-09
1117	396420.7	3870376	1.49E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-09
1036	396470.7	3870276	1.49E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-09
872	396470.7	3870076	1.48E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-09
1155	396270.7	3870426	1.46E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-09
1156	396320.7	3870426	1.46E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-09
726	395670.7	3869776	1.46E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-09
831	396470.7	3870026	1.45E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.45E-09
1026	395970.7	3870276	1.44E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.44E-09
984	395920.7	3870226	1.43E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.43E-09
775	395720.7	3869976	1.42E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.42E-09
1077	396470.7	3870326	1.42E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.42E-09
790	396470.7	3869976	1.41E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-09
1157	396370.7	3870426	1.41E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-09
1154	396220.7	3870426	1.40E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.40E-09
715	395720.7	3869726	1.39E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-09
1068	396020.7	3870326	1.37E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-09
1118	396470.7	3870376	1.33E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-09
1158	396420.7	3870426	1.33E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.33E-09
996	396520.7	3870226	1.28E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-09
1153	396170.7	3870426	1.28E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-09
955	396520.7	3870176	1.27E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-09
1037	396520.7	3870276	1.27E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-09
942	395870.7	3870176	1.26E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-09
914	396520.7	3870126	1.26E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-09
1110	396070.7	3870376	1.24E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-09
1078	396520.7	3870326	1.24E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.24E-09
873	396520.7	3870076	1.23E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-09
1159	396470.7	3870426	1.22E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-09
832	396520.7	3870026	1.21E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.21E-09
1197	396320.7	3870476	1.21E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.21E-09

1198	396370.7	3870476	1.20E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-09
858	395770.7	3870076	1.19E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-09
791	396520.7	3869976	1.18E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-09
1119	396520.7	3870376	1.18E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-09
1196	396270.7	3870476	1.17E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-09
762	395670.7	3869926	1.17E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.17E-09
1199	396420.7	3870476	1.16E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-09
737	395620.7	3869826	1.14E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-09
900	395820.7	3870126	1.13E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.13E-09
1160	396520.7	3870426	1.11E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-09
1152	396120.7	3870426	1.11E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-09
714	395670.7	3869726	1.10E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-09
816	395720.7	3870026	1.10E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-09
1200	396470.7	3870476	1.10E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-09
1195	396220.7	3870476	1.09E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-09
1038	396570.7	3870276	1.09E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-09
997	396570.7	3870226	1.09E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-09
956	396570.7	3870176	1.08E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-09
1079	396570.7	3870326	1.07E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-09
705	395820.7	3869676	1.07E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-09
915	396570.7	3870126	1.06E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-09
725	395620.7	3869776	1.06E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-09
1120	396570.7	3870376	1.04E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-09
874	396570.7	3870076	1.04E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-09
833	396570.7	3870026	1.03E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-09
704	395770.7	3869676	1.03E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-09
1201	396520.7	3870476	1.02E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-09
1239	396370.7	3870526	1.02E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.02E-09
1240	396420.7	3870526	1.01E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-09
792	396570.7	3869976	1.01E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-09
749	395620.7	3869876	1.00E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.00E-09
1161	396570.7	3870426	9.98E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.98E-10
1238	396320.7	3870526	9.94E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.94E-10
1067	395970.7	3870326	9.82E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.82E-10
1194	396170.7	3870476	9.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.78E-10
1241	396470.7	3870526	9.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.76E-10
1109	396020.7	3870376	9.68E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.68E-10
1025	395920.7	3870276	9.45E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.45E-10
1237	396270.7	3870526	9.42E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-10
1202	396570.7	3870476	9.39E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.39E-10
1039	396620.7	3870276	9.38E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.38E-10
1080	396620.7	3870326	9.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.35E-10
703	395720.7	3869676	9.32E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.32E-10
998	396620.7	3870226	9.32E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.32E-10
1242	396520.7	3870526	9.28E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.28E-10
957	396620.7	3870176	9.20E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.20E-10
1121	396620.7	3870376	9.19E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.19E-10
1151	396070.7	3870426	9.09E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.09E-10
916	396620.7	3870126	9.07E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.07E-10
875	396620.7	3870076	8.93E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.93E-10
1162	396620.7	3870426	8.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.92E-10

834	396620.7	3870026	8.81E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.81E-10
1243	396570.7	3870526	8.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.69E-10
713	395620.7	3869726	8.68E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.68E-10
793	396620.7	3869976	8.65E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.65E-10
1281	396420.7	3870576	8.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.64E-10
983	395870.7	3870226	8.63E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.63E-10
1236	396220.7	3870526	8.62E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.62E-10
1282	396470.7	3870576	8.55E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.55E-10
1203	396620.7	3870476	8.53E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.53E-10
1280	396370.7	3870576	8.51E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.51E-10
857	395720.7	3870076	8.36E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.36E-10
1193	396120.7	3870476	8.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.35E-10
1283	396520.7	3870576	8.30E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.30E-10
774	395670.7	3869976	8.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.25E-10
1081	396670.7	3870326	8.16E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.16E-10
1279	396320.7	3870576	8.16E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.16E-10
1040	396670.7	3870276	8.13E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.13E-10
1122	396670.7	3870376	8.10E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.10E-10
999	396670.7	3870226	8.06E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.06E-10
702	395670.7	3869676	8.05E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.05E-10
1244	396620.7	3870526	8.04E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.04E-10
899	395770.7	3870126	7.98E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.98E-10
1163	396670.7	3870426	7.95E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.95E-10
958	396670.7	3870176	7.94E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.94E-10
1284	396570.7	3870576	7.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.92E-10
736	395570.7	3869826	7.85E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.85E-10
917	396670.7	3870126	7.82E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.82E-10
941	395820.7	3870176	7.82E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.82E-10
724	395570.7	3869776	7.79E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.79E-10
876	396670.7	3870076	7.74E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.74E-10
1204	396670.7	3870476	7.71E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.71E-10
835	396670.7	3870026	7.65E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.65E-10
794	396668.3	3869988	7.60E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.60E-10
1278	396270.7	3870576	7.60E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.60E-10
1235	396170.7	3870526	7.59E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.59E-10
1285	396620.7	3870576	7.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.46E-10
1323	396470.7	3870626	7.43E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.43E-10
1245	396670.7	3870526	7.37E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.37E-10
1322	396420.7	3870626	7.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.35E-10
1324	396520.7	3870626	7.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.35E-10
761	395620.7	3869926	7.32E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.32E-10
1082	396720.7	3870326	7.15E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.15E-10
1123	396720.7	3870376	7.15E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.15E-10
1325	396570.7	3870626	7.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.14E-10
1041	396720.7	3870276	7.11E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.11E-10
1321	396370.7	3870626	7.11E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.11E-10
1164	396720.7	3870426	7.09E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.09E-10
1000	396720.7	3870226	7.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.02E-10
1108	395970.7	3870376	7.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.02E-10
1150	396020.7	3870426	7.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.02E-10
693	395820.7	3869626	6.96E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.96E-10

1286	396670.7	3870576	6.95E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.95E-10
1205	396720.7	3870476	6.94E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.94E-10
959	396720.7	3870176	6.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.92E-10
815	395670.7	3870026	6.85E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.85E-10
712	395570.7	3869726	6.84E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.84E-10
1326	396620.7	3870626	6.84E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.84E-10
918	396720.7	3870126	6.82E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.82E-10
1277	396220.7	3870576	6.81E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.81E-10
692	395770.7	3869626	6.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.78E-10
1192	396070.7	3870476	6.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.78E-10
1066	395920.7	3870326	6.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.78E-10
701	395620.7	3869676	6.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.76E-10
877	396720.7	3870076	6.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.76E-10
1246	396720.7	3870526	6.72E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.72E-10
1320	396320.7	3870626	6.70E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.70E-10
748	395570.7	3869876	6.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.69E-10
836	396720.7	3870026	6.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.69E-10
795	396718.3	3869988	6.66E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.66E-10
1327	396670.7	3870626	6.47E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.47E-10
691	395720.7	3869626	6.45E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.45E-10
1287	396720.7	3870576	6.43E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.43E-10
1234	396120.7	3870526	6.40E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.40E-10
1124	396770.7	3870376	6.34E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.34E-10
1165	396770.7	3870426	6.32E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.32E-10
1083	396770.7	3870326	6.31E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.31E-10
1024	395870.7	3870276	6.26E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.26E-10
1042	396770.7	3870276	6.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.25E-10
1206	396770.7	3870476	6.24E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.24E-10
1001	396770.7	3870226	6.16E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.16E-10
1319	396270.7	3870626	6.12E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.12E-10
1247	396770.7	3870526	6.11E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.11E-10
898	395720.7	3870126	6.10E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.10E-10
960	396770.7	3870176	6.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.08E-10
1328	396720.7	3870626	6.07E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.07E-10
919	396770.7	3870126	6.01E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.01E-10
878	396770.7	3870076	5.95E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.95E-10
1276	396170.7	3870576	5.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.92E-10
837	396770.7	3870026	5.90E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.90E-10
1288	396770.7	3870576	5.90E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.90E-10
690	395670.7	3869626	5.89E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.89E-10
796	396768.3	3869988	5.88E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.88E-10
723	395520.7	3869776	5.86E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.86E-10
856	395670.7	3870076	5.82E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.82E-10
982	395820.7	3870226	5.73E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-10
940	395770.7	3870176	5.65E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.65E-10
1166	396820.7	3870426	5.65E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.65E-10
1329	396770.7	3870626	5.65E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.65E-10
735	395520.7	3869826	5.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.64E-10
1125	396820.7	3870376	5.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.64E-10
700	395570.7	3869676	5.62E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.62E-10
1207	396820.7	3870476	5.62E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.62E-10

1084	396820.7	3870326	5.59E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.59E-10
1248	396820.7	3870526	5.53E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.53E-10
1043	396820.7	3870276	5.52E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.52E-10
1002	396820.7	3870226	5.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.46E-10
1318	396220.7	3870626	5.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.46E-10
711	395520.7	3869726	5.44E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.44E-10
1289	396820.7	3870576	5.41E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.41E-10
961	396820.7	3870176	5.38E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.38E-10
773	395620.7	3869976	5.37E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.37E-10
920	396820.7	3870126	5.33E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.33E-10
879	396820.7	3870076	5.29E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.29E-10
1191	396020.7	3870476	5.27E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.27E-10
838	396820.7	3870026	5.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.25E-10
1149	395970.7	3870426	5.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.25E-10
797	396818.3	3869988	5.24E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.24E-10
1330	396820.7	3870626	5.22E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.22E-10
689	395620.7	3869626	5.17E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.17E-10
1233	396070.7	3870526	5.17E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.17E-10
1167	396870.7	3870426	5.07E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.07E-10
1107	395920.7	3870376	5.06E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.06E-10
1208	396870.7	3870476	5.06E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.06E-10
1126	396870.7	3870376	5.04E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.04E-10
760	395570.7	3869926	5.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.02E-10
1249	396870.7	3870526	5.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.02E-10
1085	396870.7	3870326	4.99E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.99E-10
1275	396120.7	3870576	4.97E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.97E-10
1290	396870.7	3870576	4.94E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.94E-10
1044	396870.7	3870276	4.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.92E-10
1003	396870.7	3870226	4.85E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.85E-10
681	395820.7	3869576	4.83E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.83E-10
1331	396870.7	3870626	4.82E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.82E-10
962	396870.7	3870176	4.79E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.79E-10
747	395520.7	3869876	4.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.76E-10
921	396870.7	3870126	4.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.76E-10
680	395770.7	3869576	4.75E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.75E-10
880	396870.7	3870076	4.73E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.73E-10
1065	395870.7	3870326	4.72E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.72E-10
1317	396170.7	3870626	4.71E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.71E-10
798	396868.3	3869993	4.70E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.70E-10
839	396870.7	3870026	4.70E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.70E-10
699	395520.7	3869676	4.68E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.68E-10
897	395670.7	3870126	4.65E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.65E-10
679	395720.7	3869576	4.60E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.60E-10
1209	396920.7	3870476	4.57E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.57E-10
1250	396920.7	3870526	4.56E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-10
1168	396920.7	3870426	4.55E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.55E-10
814	395620.7	3870026	4.52E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.52E-10
1127	396920.7	3870376	4.52E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.52E-10
1291	396920.7	3870576	4.51E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.51E-10
722	395470.7	3869776	4.50E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.50E-10
688	395570.7	3869626	4.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.49E-10

939	395720.7	3870176	4.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.46E-10
1086	396920.7	3870326	4.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.46E-10
1332	396920.7	3870626	4.44E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.44E-10
1045	396920.7	3870276	4.41E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.41E-10
678	395670.7	3869576	4.36E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.36E-10
710	395470.7	3869726	4.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.35E-10
1004	396920.7	3870226	4.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.35E-10
1023	395820.7	3870276	4.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.35E-10
963	396920.7	3870176	4.30E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.30E-10
922	396920.7	3870126	4.27E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.27E-10
881	396920.7	3870076	4.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.25E-10
799	396918.3	3869993	4.23E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.23E-10
840	396920.7	3870026	4.23E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.23E-10
981	395770.7	3870226	4.21E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.21E-10
734	395470.7	3869826	4.20E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.20E-10
1210	396970.7	3870476	4.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.14E-10
1251	396970.7	3870526	4.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.14E-10
1292	396970.7	3870576	4.13E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.13E-10
1169	396970.7	3870426	4.12E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.12E-10
1232	396020.7	3870526	4.10E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.10E-10
855	395620.7	3870076	4.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-10
1128	396970.7	3870376	4.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-10
1333	396970.7	3870626	4.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-10
1274	396070.7	3870576	4.06E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.06E-10
1190	395970.7	3870476	4.04E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.04E-10
1087	396970.7	3870326	4.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.02E-10
677	395620.7	3869576	3.99E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.99E-10
1046	396970.7	3870276	3.97E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.97E-10
1316	396120.7	3870626	3.96E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.96E-10
1005	396970.7	3870226	3.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.92E-10
698	395470.7	3869676	3.89E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.89E-10
1148	395920.7	3870426	3.89E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.89E-10
687	395520.7	3869626	3.88E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.88E-10
964	396970.7	3870176	3.88E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.88E-10
923	396970.7	3870126	3.85E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.85E-10
882	396970.7	3870076	3.84E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.84E-10
800	396968.3	3869993	3.83E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.83E-10
841	396970.7	3870026	3.83E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.83E-10
1252	397020.7	3870526	3.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.78E-10
1293	397020.7	3870576	3.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.78E-10
1211	397020.7	3870476	3.77E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.77E-10
772	395570.7	3869976	3.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.76E-10
1334	397020.7	3870626	3.75E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.75E-10
1170	397020.7	3870426	3.73E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.73E-10
1129	397020.7	3870376	3.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-10
1106	395870.7	3870376	3.66E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.66E-10
759	395520.7	3869926	3.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.64E-10
1088	397020.7	3870326	3.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.64E-10
938	395670.7	3870176	3.61E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.61E-10
1047	397020.7	3870276	3.59E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.59E-10
676	395570.7	3869576	3.58E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.58E-10

1006	397020.7	3870226	3.55E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.55E-10
669	395820.7	3869526	3.53E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-10
746	395470.7	3869876	3.53E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-10
896	395620.7	3870126	3.53E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.53E-10
709	395420.7	3869726	3.51E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.51E-10
721	395420.7	3869776	3.51E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.51E-10
965	397020.7	3870176	3.51E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.51E-10
924	397020.7	3870126	3.50E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.50E-10
883	397020.7	3870076	3.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.49E-10
801	397018.3	3869993	3.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.48E-10
842	397020.7	3870026	3.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.48E-10
668	395770.7	3869526	3.47E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.47E-10
1294	397070.7	3870576	3.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.46E-10
1253	397070.7	3870526	3.45E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.45E-10
1335	397070.7	3870626	3.45E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.45E-10
1212	397070.7	3870476	3.43E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.43E-10
1064	395820.7	3870326	3.41E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.41E-10
667	395720.7	3869526	3.40E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-10
1171	397070.7	3870426	3.40E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-10
1130	397070.7	3870376	3.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.35E-10
686	395470.7	3869626	3.33E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.33E-10
980	395720.7	3870226	3.33E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.33E-10
1089	397070.7	3870326	3.31E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.31E-10
666	395670.7	3869526	3.29E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.29E-10
697	395420.7	3869676	3.26E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.26E-10
1022	395770.7	3870276	3.26E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.26E-10
1048	397070.7	3870276	3.26E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.26E-10
1273	396020.7	3870576	3.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.25E-10
1315	396070.7	3870626	3.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.25E-10
1007	397070.7	3870226	3.23E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.23E-10
733	395420.7	3869826	3.21E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.21E-10
966	397070.7	3870176	3.20E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.20E-10
925	397070.7	3870126	3.19E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.19E-10
1231	395970.7	3870526	3.19E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.19E-10
675	395520.7	3869576	3.18E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.18E-10
802	397068.3	3869993	3.18E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.18E-10
843	397070.7	3870026	3.18E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.18E-10
884	397070.7	3870076	3.18E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.18E-10
1295	397120.7	3870576	3.17E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.17E-10
1336	397120.7	3870626	3.17E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.17E-10
813	395570.7	3870026	3.16E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.16E-10
1254	397120.7	3870526	3.16E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.16E-10
1213	397120.7	3870476	3.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.14E-10
665	395620.7	3869526	3.12E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.12E-10
1172	397120.7	3870426	3.10E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.10E-10
1189	395920.7	3870476	3.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.08E-10
1131	397120.7	3870376	3.06E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.06E-10
1090	397120.7	3870326	3.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.02E-10
1049	397120.7	3870276	2.98E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.98E-10
1008	397120.7	3870226	2.95E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.95E-10
937	395620.7	3870176	2.94E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.94E-10

967	397120.7	3870176	2.93E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.93E-10
1337	397170.7	3870626	2.93E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.93E-10
803	397118.3	3869993	2.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.92E-10
844	397120.7	3870026	2.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.92E-10
885	397120.7	3870076	2.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.92E-10
926	397120.7	3870126	2.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.92E-10
1296	397170.7	3870576	2.92E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.92E-10
1147	395870.7	3870426	2.91E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.91E-10
1255	397170.7	3870526	2.90E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.90E-10
854	395570.7	3870076	2.88E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.88E-10
685	395420.7	3869626	2.87E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.87E-10
1214	397170.7	3870476	2.87E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.87E-10
664	395570.7	3869526	2.86E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.86E-10
708	395370.7	3869726	2.86E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.86E-10
1173	397170.7	3870426	2.84E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.84E-10
674	395470.7	3869576	2.81E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-10
1132	397170.7	3870376	2.81E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-10
979	395670.7	3870226	2.80E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.80E-10
720	395370.7	3869776	2.79E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.79E-10
771	395520.7	3869976	2.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.78E-10
1091	397170.7	3870326	2.77E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.77E-10
758	395470.7	3869926	2.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.76E-10
696	395370.7	3869676	2.74E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.74E-10
1050	397170.7	3870276	2.74E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.74E-10
1105	395820.7	3870376	2.74E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.74E-10
1009	397170.7	3870226	2.71E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.71E-10
1338	397220.7	3870626	2.71E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.71E-10
804	397168.3	3869993	2.70E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.70E-10
1297	397220.7	3870576	2.70E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.70E-10
657	395820.7	3869476	2.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-10
745	395420.7	3869876	2.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-10
845	397170.7	3870026	2.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-10
886	397170.7	3870076	2.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-10
927	397170.7	3870126	2.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-10
968	397170.7	3870176	2.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.69E-10
895	395570.7	3870126	2.67E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.67E-10
1256	397220.7	3870526	2.67E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.67E-10
656	395770.7	3869476	2.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.64E-10
1215	397220.7	3870476	2.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.64E-10
1314	396020.7	3870626	2.62E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.62E-10
1174	397220.7	3870426	2.61E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.61E-10
663	395520.7	3869526	2.60E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.60E-10
1063	395770.7	3870326	2.60E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.60E-10
655	395720.7	3869476	2.59E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.59E-10
1021	395720.7	3870276	2.59E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.59E-10
1133	397220.7	3870376	2.57E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.57E-10
1272	395970.7	3870576	2.57E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.57E-10
654	395670.7	3869476	2.54E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.54E-10
1092	397220.7	3870326	2.54E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.54E-10
732	395370.7	3869826	2.51E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.51E-10
1051	397220.7	3870276	2.51E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.51E-10

1339	397270.7	3870626	2.50E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.50E-10
805	397218.3	3869993	2.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.49E-10
1010	397220.7	3870226	2.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.49E-10
1298	397270.7	3870576	2.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.49E-10
684	395370.7	3869626	2.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-10
846	397220.7	3870026	2.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-10
887	397220.7	3870076	2.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-10
969	397220.7	3870176	2.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-10
1230	395920.7	3870526	2.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-10
673	395420.7	3869576	2.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-10
928	397220.7	3870126	2.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.48E-10
1257	397270.7	3870526	2.47E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.47E-10
653	395620.7	3869476	2.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.46E-10
1216	397270.7	3870476	2.44E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.44E-10
1175	397270.7	3870426	2.41E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.41E-10
978	395620.7	3870226	2.38E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.38E-10
1134	397270.7	3870376	2.38E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.38E-10
936	395570.7	3870176	2.37E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.37E-10
662	395470.7	3869526	2.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.35E-10
707	395320.7	3869726	2.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.35E-10
1093	397270.7	3870326	2.35E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.35E-10
1188	395870.7	3870476	2.34E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.34E-10
812	395520.7	3870026	2.32E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-10
1052	397270.7	3870276	2.32E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.32E-10
652	395570.7	3869476	2.31E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.31E-10
695	395320.7	3869676	2.31E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.31E-10
806	397268.3	3869993	2.31E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.31E-10
847	397270.7	3870026	2.30E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.30E-10
888	397270.7	3870076	2.30E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.30E-10
1011	397270.7	3870226	2.30E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.30E-10
929	397270.7	3870126	2.29E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.29E-10
970	397270.7	3870176	2.29E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.29E-10
719	395320.7	3869776	2.23E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.23E-10
1146	395820.7	3870426	2.23E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.23E-10
1020	395670.7	3870276	2.20E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.20E-10
672	395370.7	3869576	2.19E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.19E-10
683	395320.7	3869626	2.15E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.15E-10
651	395520.7	3869476	2.15E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.15E-10
770	395470.7	3869976	2.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.14E-10
757	395420.7	3869926	2.13E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.13E-10
853	395520.7	3870076	2.13E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.13E-10
1104	395770.7	3870376	2.13E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.13E-10
645	395820.7	3869426	2.12E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.12E-10
661	395420.7	3869526	2.11E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.11E-10
744	395370.7	3869876	2.11E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.11E-10
1313	395970.7	3870626	2.11E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.11E-10
1062	395720.7	3870326	2.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.08E-10
644	395770.7	3869426	2.07E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.07E-10
643	395720.7	3869426	2.03E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.03E-10
894	395520.7	3870126	2.03E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.03E-10
1271	395920.7	3870576	2.03E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.03E-10

977	395570.7	3870226	2.02E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.02E-10
642	395670.7	3869426	2.00E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.00E-10
731	395320.7	3869826	2.00E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.00E-10
650	395470.7	3869476	1.97E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.97E-10
641	395620.7	3869426	1.96E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.96E-10
694	395270.7	3869676	1.96E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.96E-10
706	395270.7	3869726	1.95E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.95E-10
671	395320.7	3869576	1.94E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.94E-10
1229	395870.7	3870526	1.93E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.93E-10
1019	395620.7	3870276	1.91E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.91E-10
660	395370.7	3869526	1.90E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.90E-10
640	395570.7	3869426	1.88E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.88E-10
935	395520.7	3870176	1.88E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.88E-10
682	395270.7	3869626	1.87E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.87E-10
718	395270.7	3869776	1.83E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.83E-10
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649	395420.7	3869476	1.79E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.79E-10
639	395520.7	3869426	1.78E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.78E-10
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811	395470.7	3870026	1.76E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.76E-10
1145	395770.7	3870426	1.75E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.75E-10
659	395320.7	3869526	1.72E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.72E-10
670	395270.7	3869576	1.72E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.72E-10
1103	395720.7	3870376	1.72E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.72E-10
633	395820.7	3869376	1.71E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.71E-10
743	395320.7	3869876	1.70E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.70E-10
756	395370.7	3869926	1.70E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.70E-10
1312	395920.7	3870626	1.69E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.69E-10
976	395520.7	3870226	1.68E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.68E-10
769	395420.7	3869976	1.67E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.67E-10
1018	395570.7	3870276	1.67E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.67E-10
632	395770.7	3869376	1.66E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.66E-10
638	395470.7	3869426	1.66E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.66E-10
648	395370.7	3869476	1.64E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.64E-10
631	395720.7	3869376	1.63E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-10
730	395270.7	3869826	1.63E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.63E-10
1270	395870.7	3870576	1.62E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.62E-10
852	395470.7	3870076	1.61E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.61E-10
630	395670.7	3869376	1.60E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.60E-10
629	395620.7	3869376	1.58E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.58E-10
628	395570.7	3869376	1.55E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-10
658	395270.7	3869526	1.55E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-10
893	395470.7	3870126	1.55E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-10
1060	395620.7	3870326	1.55E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.55E-10
1228	395820.7	3870526	1.54E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.54E-10
637	395420.7	3869426	1.53E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.53E-10
647	395320.7	3869476	1.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-10
934	395470.7	3870176	1.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-10
627	395520.7	3869376	1.49E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.49E-10
1186	395770.7	3870476	1.48E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.48E-10
1017	395520.7	3870276	1.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-10

1102	395670.7	3870376	1.46E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.46E-10
1144	395720.7	3870426	1.44E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.44E-10
621	395820.7	3869326	1.41E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-10
626	395470.7	3869376	1.41E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-10
636	395370.7	3869426	1.41E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.41E-10
975	395470.7	3870226	1.40E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.40E-10
742	395270.7	3869876	1.39E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-10
755	395320.7	3869926	1.39E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-10
810	395420.7	3870026	1.39E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.39E-10
1059	395570.7	3870326	1.38E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.38E-10
1311	395870.7	3870626	1.38E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.38E-10
620	395770.7	3869326	1.37E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-10
646	395270.7	3869476	1.37E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.37E-10
768	395370.7	3869976	1.36E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.36E-10
619	395720.7	3869326	1.34E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.34E-10
1269	395820.7	3870576	1.32E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.32E-10
618	395670.7	3869326	1.31E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-10
625	395420.7	3869376	1.31E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.31E-10
617	395620.7	3869326	1.30E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.30E-10
635	395320.7	3869426	1.30E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.30E-10
616	395570.7	3869326	1.28E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.28E-10
1101	395620.7	3870376	1.27E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.27E-10
1016	395470.7	3870276	1.26E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-10
1227	395770.7	3870526	1.26E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.26E-10
615	395520.7	3869326	1.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-10
851	395420.7	3870076	1.25E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.25E-10
1058	395520.7	3870326	1.23E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.23E-10
624	395370.7	3869376	1.22E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-10
1143	395670.7	3870426	1.22E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-10
1185	395720.7	3870476	1.22E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.22E-10
614	395470.7	3869326	1.20E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-10
634	395270.7	3869426	1.20E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-10
892	395420.7	3870126	1.20E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.20E-10
933	395420.7	3870176	1.19E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.19E-10
609	395820.7	3869276	1.18E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.18E-10
608	395770.7	3869276	1.16E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-10
974	395420.7	3870226	1.16E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.16E-10
754	395270.7	3869926	1.15E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.15E-10
1100	395570.7	3870376	1.15E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.15E-10
613	395420.7	3869326	1.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-10
623	395320.7	3869376	1.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-10
1310	395820.7	3870626	1.14E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.14E-10
607	395720.7	3869276	1.12E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-10
767	395320.7	3869976	1.12E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-10
809	395370.7	3870026	1.12E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.12E-10
1057	395470.7	3870326	1.11E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.11E-10
606	395670.7	3869276	1.10E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.10E-10
605	395620.7	3869276	1.09E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-10
1268	395770.7	3870576	1.09E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.09E-10
604	395570.7	3869276	1.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-10
1015	395420.7	3870276	1.08E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.08E-10

612	395370.7	3869326	1.07E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-10
1142	395620.7	3870426	1.07E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.07E-10
603	395520.7	3869276	1.06E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-10
622	395270.7	3869376	1.06E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.06E-10
1226	395720.7	3870526	1.05E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.05E-10
1099	395520.7	3870376	1.04E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-10
1184	395670.7	3870476	1.04E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.04E-10
602	395470.7	3869276	1.03E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.03E-10
597	395820.7	3869226	1.01E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.01E-10
611	395320.7	3869326	1.00E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.00E-10
850	395370.7	3870076	1.00E-10	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	1.00E-10
601	395420.7	3869276	9.90E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.90E-11
596	395770.7	3869226	9.80E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.80E-11
1056	395420.7	3870326	9.71E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.71E-11
891	395370.7	3870126	9.61E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.61E-11
932	395370.7	3870176	9.61E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.61E-11
1141	395570.7	3870426	9.61E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.61E-11
595	395720.7	3869226	9.51E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.51E-11
1098	395470.7	3870376	9.51E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.51E-11
600	395370.7	3869276	9.42E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-11
610	395270.7	3869326	9.42E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-11
973	395370.7	3870226	9.42E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-11
1309	395770.7	3870626	9.42E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.42E-11
766	395270.7	3869976	9.32E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.32E-11
594	395670.7	3869226	9.22E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.22E-11
808	395320.7	3870026	9.22E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.22E-11
592	395570.7	3869226	9.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.12E-11
593	395620.7	3869226	9.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.12E-11
1014	395370.7	3870276	9.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.12E-11
1183	395620.7	3870476	9.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.12E-11
1267	395720.7	3870576	9.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.12E-11
591	395520.7	3869226	9.03E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	9.03E-11
590	395470.7	3869226	8.93E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.93E-11
1225	395670.7	3870526	8.93E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.93E-11
599	395320.7	3869276	8.83E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.83E-11
1140	395520.7	3870426	8.83E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.83E-11
585	395820.7	3869176	8.74E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.74E-11
589	395420.7	3869226	8.64E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.64E-11
1097	395420.7	3870376	8.64E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.64E-11
584	395770.7	3869176	8.54E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.54E-11
1055	395370.7	3870326	8.54E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.54E-11
598	395270.7	3869276	8.35E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.35E-11
583	395720.7	3869176	8.25E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.25E-11
588	395370.7	3869226	8.25E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.25E-11
1182	395570.7	3870476	8.25E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.25E-11
849	395320.7	3870076	8.15E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.15E-11
1139	395470.7	3870426	8.15E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	8.15E-11
582	395670.7	3869176	7.96E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.96E-11
1308	395720.7	3870626	7.96E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.96E-11
581	395620.7	3869176	7.86E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.86E-11
587	395320.7	3869226	7.86E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.86E-11

1224	395620.7	3870526	7.86E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.86E-11
1266	395670.7	3870576	7.86E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.86E-11
579	395520.7	3869176	7.77E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-11
580	395570.7	3869176	7.77E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-11
807	395270.7	3870026	7.77E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-11
890	395320.7	3870126	7.77E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-11
931	395320.7	3870176	7.77E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-11
972	395320.7	3870226	7.77E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-11
1096	395370.7	3870376	7.77E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.77E-11
573	395820.7	3869126	7.67E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.67E-11
578	395470.7	3869176	7.67E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.67E-11
1013	395320.7	3870276	7.67E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.67E-11
577	395420.7	3869176	7.57E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.57E-11
1138	395420.7	3870426	7.57E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.57E-11
572	395770.7	3869126	7.47E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.47E-11
1181	395520.7	3870476	7.47E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.47E-11
586	395270.7	3869226	7.38E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.38E-11
1054	395320.7	3870326	7.38E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.38E-11
576	395370.7	3869176	7.28E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.28E-11
571	395720.7	3869126	7.18E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.18E-11
1223	395570.7	3870526	7.09E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.09E-11
570	395670.7	3869126	6.99E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-11
575	395320.7	3869176	6.99E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-11
1095	395320.7	3870376	6.99E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-11
1137	395370.7	3870426	6.99E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-11
1180	395470.7	3870476	6.99E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.99E-11
1265	395620.7	3870576	6.89E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.89E-11
1307	395670.7	3870626	6.89E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.89E-11
561	395820.7	3869076	6.79E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.79E-11
569	395620.7	3869126	6.79E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.79E-11
848	395270.7	3870076	6.79E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.79E-11
566	395470.7	3869126	6.70E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.70E-11
567	395520.7	3869126	6.70E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.70E-11
568	395570.7	3869126	6.70E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.70E-11
574	395270.7	3869176	6.70E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.70E-11
560	395770.7	3869076	6.60E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.60E-11
565	395420.7	3869126	6.60E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.60E-11
564	395370.7	3869126	6.50E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.50E-11
1012	395270.7	3870276	6.50E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.50E-11
1179	395420.7	3870476	6.50E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.50E-11
1222	395520.7	3870526	6.50E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.50E-11
559	395720.7	3869076	6.41E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.41E-11
889	395270.7	3870126	6.41E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.41E-11
971	395270.7	3870226	6.41E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.41E-11
1053	395270.7	3870326	6.41E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.41E-11
1136	395320.7	3870426	6.41E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.41E-11
563	395320.7	3869126	6.31E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.31E-11
930	395270.7	3870176	6.31E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.31E-11
1094	395270.7	3870376	6.21E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.21E-11
1264	395570.7	3870576	6.21E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.21E-11
549	395820.7	3869026	6.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.12E-11

558	395670.7	3869076	6.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.12E-11
1178	395370.7	3870476	6.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.12E-11
1306	395620.7	3870626	6.12E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.12E-11
562	395270.7	3869126	6.02E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.02E-11
1221	395470.7	3870526	6.02E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.02E-11
548	395770.7	3869026	5.92E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.92E-11
556	395570.7	3869076	5.92E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.92E-11
557	395620.7	3869076	5.92E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.92E-11
553	395420.7	3869076	5.82E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.82E-11
554	395470.7	3869076	5.82E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.82E-11
555	395520.7	3869076	5.82E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.82E-11
1135	395270.7	3870426	5.82E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.82E-11
547	395720.7	3869026	5.73E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-11
552	395370.7	3869076	5.73E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-11
1177	395320.7	3870476	5.73E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.73E-11
551	395320.7	3869076	5.63E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.63E-11
1220	395420.7	3870526	5.63E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.63E-11
1263	395520.7	3870576	5.63E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.63E-11
1305	395570.7	3870626	5.53E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.53E-11
537	395820.7	3868976	5.44E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.44E-11
546	395670.7	3869026	5.44E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.44E-11
550	395270.7	3869076	5.44E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.44E-11
536	395770.7	3868976	5.34E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.34E-11
1176	395270.7	3870476	5.34E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.34E-11
1219	395370.7	3870526	5.34E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.34E-11
545	395620.7	3869026	5.24E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.24E-11
1262	395470.7	3870576	5.24E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.24E-11
535	395720.7	3868976	5.14E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.14E-11
540	395370.7	3869026	5.14E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.14E-11
541	395420.7	3869026	5.14E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.14E-11
542	395470.7	3869026	5.14E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.14E-11
543	395520.7	3869026	5.14E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.14E-11
544	395570.7	3869026	5.14E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.14E-11
1218	395320.7	3870526	5.14E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.14E-11
539	395320.7	3869026	5.05E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.05E-11
1304	395520.7	3870626	5.05E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.05E-11
525	395820.7	3868926	4.95E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.95E-11
534	395670.7	3868976	4.95E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.95E-11
1261	395420.7	3870576	4.95E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.95E-11
524	395770.7	3868926	4.85E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.85E-11
538	395270.7	3869026	4.85E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.85E-11
1217	395270.7	3870526	4.85E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.85E-11
533	395620.7	3868976	4.76E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.76E-11
1260	395370.7	3870576	4.76E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.76E-11
523	395720.7	3868926	4.66E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.66E-11
532	395570.7	3868976	4.66E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.66E-11
1303	395470.7	3870626	4.66E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.66E-11
513	395820.7	3868876	4.56E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-11
527	395320.7	3868976	4.56E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-11
528	395370.7	3868976	4.56E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-11
529	395420.7	3868976	4.56E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-11

530	395470.7	3868976	4.56E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-11
531	395520.7	3868976	4.56E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-11
1259	395320.7	3870576	4.56E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.56E-11
512	395770.7	3868876	4.46E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.46E-11
522	395670.7	3868926	4.46E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.46E-11
526	395270.7	3868976	4.46E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.46E-11
1258	395270.7	3870576	4.37E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.37E-11
1302	395420.7	3870626	4.37E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.37E-11
511	395720.7	3868876	4.27E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.27E-11
521	395620.7	3868926	4.27E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.27E-11
501	395820.7	3868826	4.17E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.17E-11
520	395570.7	3868926	4.17E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.17E-11
1301	395370.7	3870626	4.17E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.17E-11
500	395770.7	3868826	4.08E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-11
510	395670.7	3868876	4.08E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-11
515	395320.7	3868926	4.08E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-11
516	395370.7	3868926	4.08E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-11
517	395420.7	3868926	4.08E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-11
518	395470.7	3868926	4.08E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-11
519	395520.7	3868926	4.08E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.08E-11
499	395720.7	3868826	3.98E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.98E-11
514	395270.7	3868926	3.98E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.98E-11
1300	395320.7	3870626	3.98E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.98E-11
489	395820.7	3868776	3.88E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.88E-11
509	395620.7	3868876	3.88E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.88E-11
1299	395270.7	3870626	3.88E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.88E-11
488	395770.7	3868776	3.79E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.79E-11
498	395670.7	3868826	3.79E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.79E-11
508	395570.7	3868876	3.79E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.79E-11
487	395720.7	3868776	3.69E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-11
502	395270.7	3868876	3.69E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-11
503	395320.7	3868876	3.69E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-11
504	395370.7	3868876	3.69E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-11
505	395420.7	3868876	3.69E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-11
506	395470.7	3868876	3.69E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-11
507	395520.7	3868876	3.69E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.69E-11
476	395770.7	3868726	3.59E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.59E-11
477	395820.7	3868726	3.59E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.59E-11
497	395620.7	3868826	3.59E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.59E-11
486	395670.7	3868776	3.49E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.49E-11
496	395570.7	3868826	3.49E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.49E-11
465	395820.7	3868676	3.40E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-11
475	395720.7	3868726	3.40E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-11
495	395520.7	3868826	3.40E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.40E-11
464	395770.7	3868676	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11
474	395670.7	3868726	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11
485	395620.7	3868776	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11
490	395270.7	3868826	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11
491	395320.7	3868826	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11
492	395370.7	3868826	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11
493	395420.7	3868826	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11

494	395470.7	3868826	3.30E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.30E-11
463	395720.7	3868676	3.20E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.20E-11
484	395570.7	3868776	3.20E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.20E-11
452	395770.7	3868626	3.11E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.11E-11
453	395820.7	3868626	3.11E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.11E-11
462	395670.7	3868676	3.11E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.11E-11
473	395620.7	3868726	3.11E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.11E-11
483	395520.7	3868776	3.11E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.11E-11
451	395720.7	3868626	3.01E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-11
472	395570.7	3868726	3.01E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-11
478	395270.7	3868776	3.01E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-11
479	395320.7	3868776	3.01E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-11
480	395370.7	3868776	3.01E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-11
481	395420.7	3868776	3.01E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-11
482	395470.7	3868776	3.01E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.01E-11
450	395670.7	3868626	2.91E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.91E-11
461	395620.7	3868676	2.91E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.91E-11
460	395570.7	3868676	2.81E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-11
470	395470.7	3868726	2.81E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-11
471	395520.7	3868726	2.81E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.81E-11
449	395620.7	3868626	2.72E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.72E-11
466	395270.7	3868726	2.72E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.72E-11
467	395320.7	3868726	2.72E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.72E-11
468	395370.7	3868726	2.72E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.72E-11
469	395420.7	3868726	2.72E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.72E-11
448	395570.7	3868626	2.62E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.62E-11
458	395470.7	3868676	2.62E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.62E-11
459	395520.7	3868676	2.62E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.62E-11
447	395520.7	3868626	2.52E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-11
454	395270.7	3868676	2.52E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-11
455	395320.7	3868676	2.52E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-11
456	395370.7	3868676	2.52E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-11
457	395420.7	3868676	2.52E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.52E-11
446	395470.7	3868626	2.43E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.43E-11
442	395270.7	3868626	2.33E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.33E-11
443	395320.7	3868626	2.33E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.33E-11
444	395370.7	3868626	2.33E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.33E-11
445	395420.7	3868626	2.33E-11	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.33E-11

Edwards AFB Solar Facility Project - Operational HRA - Non-Cancer Chronic Risk

**HARP 2 - Air Dispersion Modeling and Risk Tool v17320

**2/10/2018

** Chronic Risk Results of All Discrete Sensitive Receptor Points Are Shown - Descending From Maximum to Minimum

REC	X	Y	SCENARIO	RESP	MAXHI
779	395920.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-05	2.13E-05
780	395970.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-05	1.65E-05
781	396020.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	7.98E-06	7.98E-06
821	395970.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.29E-06	7.29E-06
822	396020.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.77E-06	5.77E-06
778	395870.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	5.65E-06	5.65E-06
820	395920.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.09E-06	5.09E-06
782	396070.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-06	4.18E-06
753	395820.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	4.02E-06	4.02E-06
823	396070.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	3.79E-06	3.79E-06
863	396020.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	3.47E-06	3.47E-06
765	395820.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	3.33E-06	3.33E-06
862	395970.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	3.17E-06	3.17E-06
864	396070.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.90E-06	2.90E-06
783	396120.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.47E-06	2.47E-06
824	396120.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.45E-06	2.45E-06
865	396120.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-06	2.17E-06
905	396070.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-06	2.00E-06
904	396020.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-06	1.99E-06
741	395820.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.90E-06	1.90E-06
861	395920.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.89E-06	1.89E-06
906	396120.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.74E-06	1.74E-06
819	395870.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.74E-06	1.74E-06
825	396170.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-06	1.65E-06
784	396170.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-06	1.60E-06
866	396170.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-06	1.58E-06
903	395970.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.54E-06	1.54E-06
777	395820.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.53E-06	1.53E-06
752	395770.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-06	1.41E-06
907	396170.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.40E-06	1.40E-06
946	396070.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.33E-06	1.33E-06
947	396120.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-06	1.30E-06
945	396020.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-06	1.16E-06
826	396220.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-06	1.16E-06
867	396220.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-06	1.15E-06
948	396170.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-06	1.15E-06
785	396220.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-06	1.12E-06
740	395770.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-06	1.10E-06
908	396220.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-06	1.09E-06
764	395770.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-06	1.04E-06
949	396220.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	9.69E-07	9.69E-07
988	396120.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.36E-07	9.36E-07
902	395920.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.15E-07	9.15E-07
989	396170.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.07E-07	9.07E-07
987	396070.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.72E-07	8.72E-07

868	396270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.63E-07	8.63E-07
827	396270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	8.52E-07	8.52E-07
944	395970.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.48E-07	8.48E-07
909	396270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.45E-07	8.45E-07
990	396220.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.20E-07	8.20E-07
786	396270.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	8.18E-07	8.18E-07
860	395870.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.16E-07	8.16E-07
729	395820.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	8.15E-07	8.15E-07
950	396270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.92E-07	7.92E-07
818	395820.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.51E-07	7.51E-07
986	396020.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.15E-07	7.15E-07
991	396270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.10E-07	7.10E-07
1030	396170.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.92E-07	6.92E-07
1031	396220.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.67E-07	6.67E-07
1029	396120.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.67E-07	6.67E-07
751	395720.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	6.66E-07	6.66E-07
869	396320.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.62E-07	6.62E-07
910	396320.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.62E-07	6.62E-07
728	395770.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	6.53E-07	6.53E-07
776	395770.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	6.53E-07	6.53E-07
828	396320.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	6.48E-07	6.48E-07
951	396320.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.42E-07	6.42E-07
739	395720.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	6.41E-07	6.41E-07
787	396320.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	6.24E-07	6.24E-07
1032	396270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.11E-07	6.11E-07
992	396320.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.00E-07	6.00E-07
1028	396070.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.85E-07	5.85E-07
1033	396320.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.41E-07	5.41E-07
1072	396220.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.30E-07	5.30E-07
911	396370.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.26E-07	5.26E-07
943	395920.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.22E-07	5.22E-07
952	396370.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.21E-07	5.21E-07
1071	396170.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.21E-07	5.21E-07
870	396370.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	5.20E-07	5.20E-07
985	395970.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.13E-07	5.13E-07
1073	396270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.11E-07	5.11E-07
829	396370.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.09E-07	5.09E-07
993	396370.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.02E-07	5.02E-07
788	396370.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	4.91E-07	4.91E-07
763	395720.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	4.84E-07	4.84E-07
1070	396120.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.76E-07	4.76E-07
727	395720.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	4.74E-07	4.74E-07
1074	396320.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.73E-07	4.73E-07
1034	396370.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.69E-07	4.69E-07
1027	396020.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.64E-07	4.64E-07
901	395870.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	4.59E-07	4.59E-07
817	395770.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	4.31E-07	4.31E-07
953	396420.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	4.26E-07	4.26E-07
1075	396370.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.26E-07	4.26E-07
912	396420.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	4.25E-07	4.25E-07
717	395820.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	4.19E-07	4.19E-07
994	396420.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.19E-07	4.19E-07

859	395820.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-07	4.18E-07
871	396420.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-07	4.18E-07
1114	396270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.18E-07	4.18E-07
1113	396220.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.15E-07	4.15E-07
830	396420.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	4.09E-07	4.09E-07
1069	396070.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.03E-07	4.03E-07
1115	396320.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.03E-07	4.03E-07
1035	396420.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.02E-07	4.02E-07
738	395670.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	3.98E-07	3.98E-07
789	396420.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.96E-07	3.96E-07
1112	396170.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.91E-07	3.91E-07
716	395770.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	3.81E-07	3.81E-07
1116	396370.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.77E-07	3.77E-07
1076	396420.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.76E-07	3.76E-07
750	395670.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	3.73E-07	3.73E-07
954	396470.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	3.52E-07	3.52E-07
995	396470.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.51E-07	3.51E-07
913	396470.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	3.48E-07	3.48E-07
1111	396120.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.46E-07	3.46E-07
1117	396420.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.44E-07	3.44E-07
1036	396470.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.43E-07	3.43E-07
872	396470.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	3.43E-07	3.43E-07
1155	396270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.38E-07	3.38E-07
1156	396320.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.38E-07	3.38E-07
726	395670.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	3.37E-07	3.37E-07
831	396470.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	3.36E-07	3.36E-07
1026	395970.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.34E-07	3.34E-07
984	395920.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.30E-07	3.30E-07
775	395720.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.29E-07	3.29E-07
1077	396470.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.29E-07	3.29E-07
790	396470.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.26E-07	3.26E-07
1157	396370.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.26E-07	3.26E-07
1154	396220.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.24E-07	3.24E-07
715	395720.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	3.20E-07	3.20E-07
1068	396020.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.16E-07	3.16E-07
1118	396470.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.08E-07	3.08E-07
1158	396420.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.07E-07	3.07E-07
996	396520.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.96E-07	2.96E-07
1153	396170.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.95E-07	2.95E-07
955	396520.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.94E-07	2.94E-07
1037	396520.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.93E-07	2.93E-07
942	395870.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.91E-07	2.91E-07
914	396520.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.90E-07	2.90E-07
1110	396070.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.87E-07	2.87E-07
1078	396520.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.86E-07	2.86E-07
873	396520.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.85E-07	2.85E-07
1159	396470.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.83E-07	2.83E-07
832	396520.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.80E-07	2.80E-07
1197	396320.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.80E-07	2.80E-07
1198	396370.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.78E-07	2.78E-07
858	395770.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.76E-07	2.76E-07
791	396520.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.74E-07	2.74E-07

1119	396520.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.74E-07	2.74E-07
1196	396270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.71E-07	2.71E-07
762	395670.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	2.70E-07	2.70E-07
1199	396420.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.69E-07	2.69E-07
737	395620.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	2.63E-07	2.63E-07
900	395820.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.61E-07	2.61E-07
1160	396520.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.57E-07	2.57E-07
1152	396120.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.56E-07	2.56E-07
714	395670.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	2.55E-07	2.55E-07
816	395720.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.55E-07	2.55E-07
1200	396470.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.55E-07	2.55E-07
1195	396220.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.53E-07	2.53E-07
1038	396570.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.52E-07	2.52E-07
997	396570.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.51E-07	2.51E-07
956	396570.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.49E-07	2.49E-07
1079	396570.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.48E-07	2.48E-07
705	395820.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	2.48E-07	2.48E-07
915	396570.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.45E-07	2.45E-07
725	395620.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	2.44E-07	2.44E-07
1120	396570.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.41E-07	2.41E-07
874	396570.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.41E-07	2.41E-07
833	396570.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.38E-07	2.38E-07
704	395770.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	2.37E-07	2.37E-07
1201	396520.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.37E-07	2.37E-07
1239	396370.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.35E-07	2.35E-07
1240	396420.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.33E-07	2.33E-07
792	396570.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.32E-07	2.32E-07
749	395620.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	2.32E-07	2.32E-07
1161	396570.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-07	2.31E-07
1238	396320.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.30E-07	2.30E-07
1067	395970.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.27E-07	2.27E-07
1194	396170.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.26E-07	2.26E-07
1241	396470.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.26E-07	2.26E-07
1109	396020.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.24E-07	2.24E-07
1025	395920.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.19E-07	2.19E-07
1237	396270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-07	2.18E-07
1202	396570.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-07	2.17E-07
1039	396620.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.17E-07	2.17E-07
1080	396620.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.16E-07	2.16E-07
703	395720.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-07	2.15E-07
998	396620.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-07	2.15E-07
1242	396520.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-07	2.15E-07
957	396620.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-07	2.13E-07
1121	396620.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.12E-07	2.12E-07
1151	396070.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.10E-07	2.10E-07
916	396620.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.10E-07	2.10E-07
875	396620.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-07	2.06E-07
1162	396620.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-07	2.06E-07
834	396620.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.04E-07	2.04E-07
1243	396570.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.01E-07	2.01E-07
713	395620.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	2.01E-07	2.01E-07
793	396620.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-07	2.00E-07

1281	396420.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-07	2.00E-07
983	395870.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-07	1.99E-07
1236	396220.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.99E-07	1.99E-07
1282	396470.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.98E-07	1.98E-07
1203	396620.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-07	1.97E-07
1280	396370.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-07	1.97E-07
857	395720.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.93E-07	1.93E-07
1193	396120.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.93E-07	1.93E-07
1283	396520.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.92E-07	1.92E-07
774	395670.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-07	1.91E-07
1081	396670.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.89E-07	1.89E-07
1279	396320.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.89E-07	1.89E-07
1040	396670.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-07	1.88E-07
1122	396670.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.87E-07	1.87E-07
999	396670.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-07	1.86E-07
702	395670.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-07	1.86E-07
1244	396620.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.86E-07	1.86E-07
899	395770.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.84E-07	1.84E-07
1163	396670.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.84E-07	1.84E-07
958	396670.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.84E-07	1.84E-07
1284	396570.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.83E-07	1.83E-07
736	395570.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-07	1.82E-07
917	396670.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-07	1.81E-07
941	395820.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.81E-07	1.81E-07
724	395570.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-07	1.80E-07
876	396670.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.79E-07	1.79E-07
1204	396670.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.78E-07	1.78E-07
835	396670.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.77E-07	1.77E-07
794	396668.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	1.76E-07	1.76E-07
1278	396270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.76E-07	1.76E-07
1235	396170.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.75E-07	1.75E-07
1285	396620.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.73E-07	1.73E-07
1323	396470.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.72E-07	1.72E-07
1245	396670.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.70E-07	1.70E-07
1322	396420.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.70E-07	1.70E-07
1324	396520.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.70E-07	1.70E-07
761	395620.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.69E-07	1.69E-07
1082	396720.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-07	1.65E-07
1123	396720.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-07	1.65E-07
1325	396570.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.65E-07	1.65E-07
1041	396720.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-07	1.64E-07
1321	396370.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-07	1.64E-07
1164	396720.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-07	1.64E-07
1000	396720.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-07	1.62E-07
1108	395970.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-07	1.62E-07
1150	396020.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-07	1.62E-07
693	395820.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.61E-07	1.61E-07
1286	396670.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.61E-07	1.61E-07
1205	396720.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-07	1.60E-07
959	396720.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.60E-07	1.60E-07
815	395670.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-07	1.58E-07
712	395570.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-07	1.58E-07

1326	396620.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-07	1.58E-07
918	396720.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-07	1.58E-07
1277	396220.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.58E-07	1.58E-07
692	395770.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.57E-07	1.57E-07
1192	396070.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.57E-07	1.57E-07
1066	395920.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.57E-07	1.57E-07
701	395620.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.56E-07	1.56E-07
877	396720.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.56E-07	1.56E-07
1246	396720.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-07	1.55E-07
1320	396320.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-07	1.55E-07
748	395570.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-07	1.55E-07
836	396720.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-07	1.55E-07
795	396718.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	1.54E-07	1.54E-07
1327	396670.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-07	1.50E-07
691	395720.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-07	1.49E-07
1287	396720.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.49E-07	1.49E-07
1234	396120.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-07	1.48E-07
1124	396770.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.47E-07	1.47E-07
1165	396770.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-07	1.46E-07
1083	396770.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-07	1.46E-07
1024	395870.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.45E-07	1.45E-07
1042	396770.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.45E-07	1.45E-07
1206	396770.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.44E-07	1.44E-07
1001	396770.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.42E-07	1.42E-07
1319	396270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.42E-07	1.42E-07
1247	396770.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-07	1.41E-07
898	395720.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-07	1.41E-07
960	396770.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.40E-07	1.40E-07
1328	396720.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.40E-07	1.40E-07
919	396770.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-07	1.39E-07
878	396770.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.38E-07	1.38E-07
1276	396170.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.37E-07	1.37E-07
837	396770.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-07	1.36E-07
1288	396770.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-07	1.36E-07
690	395670.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-07	1.36E-07
796	396768.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-07	1.36E-07
723	395520.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.36E-07	1.36E-07
856	395670.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-07	1.35E-07
982	395820.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.32E-07	1.32E-07
940	395770.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-07	1.31E-07
1166	396820.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-07	1.31E-07
1329	396770.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.31E-07	1.31E-07
735	395520.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-07	1.30E-07
1125	396820.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-07	1.30E-07
700	395570.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-07	1.30E-07
1207	396820.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-07	1.30E-07
1084	396820.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.29E-07	1.29E-07
1248	396820.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-07	1.28E-07
1043	396820.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-07	1.28E-07
1002	396820.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-07	1.26E-07
1318	396220.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-07	1.26E-07
711	395520.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-07	1.26E-07

1289	396820.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.25E-07	1.25E-07
961	396820.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.24E-07	1.24E-07
773	395620.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	1.24E-07	1.24E-07
920	396820.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-07	1.23E-07
879	396820.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.22E-07	1.22E-07
1191	396020.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.22E-07	1.22E-07
838	396820.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-07	1.21E-07
1149	395970.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-07	1.21E-07
797	396818.3	3869988	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-07	1.21E-07
1330	396820.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-07	1.21E-07
689	395620.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.20E-07	1.20E-07
1233	396070.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.20E-07	1.20E-07
1167	396870.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-07	1.17E-07
1107	395920.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-07	1.17E-07
1208	396870.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-07	1.17E-07
1126	396870.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-07	1.16E-07
760	395570.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-07	1.16E-07
1249	396870.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.16E-07	1.16E-07
1085	396870.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-07	1.15E-07
1275	396120.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.15E-07	1.15E-07
1290	396870.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-07	1.14E-07
1044	396870.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-07	1.14E-07
1003	396870.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-07	1.12E-07
681	395820.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-07	1.12E-07
1331	396870.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-07	1.12E-07
962	396870.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.11E-07	1.11E-07
747	395520.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-07	1.10E-07
921	396870.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-07	1.10E-07
680	395770.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-07	1.10E-07
880	396870.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-07	1.09E-07
1065	395870.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-07	1.09E-07
1317	396170.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-07	1.09E-07
798	396868.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-07	1.09E-07
839	396870.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.09E-07	1.09E-07
699	395520.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-07	1.08E-07
897	395670.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.07E-07	1.07E-07
679	395720.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.06E-07	1.06E-07
1209	396920.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.06E-07	1.06E-07
1250	396920.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-07	1.05E-07
1168	396920.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-07	1.05E-07
814	395620.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-07	1.05E-07
1127	396920.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-07	1.05E-07
1291	396920.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-07	1.04E-07
722	395470.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-07	1.04E-07
688	395570.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	1.04E-07	1.04E-07
939	395720.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-07	1.03E-07
1086	396920.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-07	1.03E-07
1332	396920.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-07	1.03E-07
1045	396920.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.02E-07	1.02E-07
678	395670.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-07	1.01E-07
710	395470.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-07	1.01E-07
1004	396920.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-07	1.01E-07

1023	395820.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-07	1.01E-07
963	396920.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	9.94E-08	9.94E-08
922	396920.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	9.87E-08	9.87E-08
881	396920.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.83E-08	9.83E-08
799	396918.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	9.78E-08	9.78E-08
840	396920.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	9.78E-08	9.78E-08
981	395770.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.74E-08	9.74E-08
734	395470.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	9.72E-08	9.72E-08
1210	396970.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	9.58E-08	9.58E-08
1251	396970.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	9.58E-08	9.58E-08
1292	396970.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	9.54E-08	9.54E-08
1169	396970.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	9.51E-08	9.51E-08
1232	396020.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	9.47E-08	9.47E-08
855	395620.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-08	9.42E-08
1128	396970.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-08	9.42E-08
1333	396970.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-08	9.42E-08
1274	396070.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	9.38E-08	9.38E-08
1190	395970.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	9.33E-08	9.33E-08
1087	396970.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	9.29E-08	9.29E-08
677	395620.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	9.22E-08	9.22E-08
1046	396970.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	9.18E-08	9.18E-08
1316	396120.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	9.15E-08	9.15E-08
1005	396970.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	9.06E-08	9.06E-08
698	395470.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	9.00E-08	9.00E-08
1148	395920.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	9.00E-08	9.00E-08
687	395520.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	8.98E-08	8.98E-08
964	396970.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.98E-08	8.98E-08
923	396970.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.91E-08	8.91E-08
882	396970.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.89E-08	8.89E-08
800	396968.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	8.86E-08	8.86E-08
841	396970.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	8.86E-08	8.86E-08
1252	397020.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	8.73E-08	8.73E-08
1293	397020.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	8.73E-08	8.73E-08
1211	397020.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	8.71E-08	8.71E-08
772	395570.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	8.68E-08	8.68E-08
1334	397020.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	8.66E-08	8.66E-08
1170	397020.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	8.62E-08	8.62E-08
1129	397020.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-08	8.53E-08
1106	395870.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	8.46E-08	8.46E-08
759	395520.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	8.41E-08	8.41E-08
1088	397020.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	8.41E-08	8.41E-08
938	395670.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.35E-08	8.35E-08
1047	397020.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	8.30E-08	8.30E-08
676	395570.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	8.28E-08	8.28E-08
1006	397020.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	8.21E-08	8.21E-08
669	395820.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	8.17E-08	8.17E-08
746	395470.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	8.17E-08	8.17E-08
896	395620.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.17E-08	8.17E-08
709	395420.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	8.12E-08	8.12E-08
721	395420.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	8.12E-08	8.12E-08
965	397020.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	8.12E-08	8.12E-08
924	397020.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	8.10E-08	8.10E-08

883	397020.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	8.08E-08	8.08E-08
801	397018.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	8.06E-08	8.06E-08
842	397020.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	8.06E-08	8.06E-08
668	395770.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	8.03E-08	8.03E-08
1294	397070.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	7.99E-08	7.99E-08
1253	397070.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	7.97E-08	7.97E-08
1335	397070.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	7.97E-08	7.97E-08
1212	397070.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	7.92E-08	7.92E-08
1064	395820.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.88E-08	7.88E-08
667	395720.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	7.85E-08	7.85E-08
1171	397070.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	7.85E-08	7.85E-08
1130	397070.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.74E-08	7.74E-08
686	395470.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	7.70E-08	7.70E-08
980	395720.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.70E-08	7.70E-08
1089	397070.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	7.65E-08	7.65E-08
666	395670.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	7.61E-08	7.61E-08
697	395420.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	7.54E-08	7.54E-08
1022	395770.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.54E-08	7.54E-08
1048	397070.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	7.54E-08	7.54E-08
1273	396020.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	7.52E-08	7.52E-08
1315	396070.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	7.52E-08	7.52E-08
1007	397070.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	7.47E-08	7.47E-08
733	395420.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	7.43E-08	7.43E-08
966	397070.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	7.40E-08	7.40E-08
925	397070.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	7.38E-08	7.38E-08
1231	395970.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	7.38E-08	7.38E-08
675	395520.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	7.36E-08	7.36E-08
802	397068.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	7.36E-08	7.36E-08
843	397070.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.36E-08	7.36E-08
884	397070.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	7.36E-08	7.36E-08
1295	397120.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	7.34E-08	7.34E-08
1336	397120.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	7.34E-08	7.34E-08
813	395570.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	7.31E-08	7.31E-08
1254	397120.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	7.31E-08	7.31E-08
1213	397120.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	7.25E-08	7.25E-08
665	395620.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	7.20E-08	7.20E-08
1172	397120.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	7.16E-08	7.16E-08
1189	395920.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	7.11E-08	7.11E-08
1131	397120.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	7.07E-08	7.07E-08
1090	397120.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.98E-08	6.98E-08
1049	397120.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.89E-08	6.89E-08
1008	397120.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.82E-08	6.82E-08
937	395620.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.80E-08	6.80E-08
967	397120.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.78E-08	6.78E-08
1337	397170.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	6.78E-08	6.78E-08
803	397118.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	6.75E-08	6.75E-08
844	397120.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	6.75E-08	6.75E-08
885	397120.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.75E-08	6.75E-08
926	397120.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.75E-08	6.75E-08
1296	397170.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	6.75E-08	6.75E-08
1147	395870.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.73E-08	6.73E-08
1255	397170.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	6.71E-08	6.71E-08

854	395570.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.66E-08	6.66E-08
685	395420.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	6.64E-08	6.64E-08
1214	397170.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.64E-08	6.64E-08
664	395570.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	6.62E-08	6.62E-08
708	395370.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	6.62E-08	6.62E-08
1173	397170.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.57E-08	6.57E-08
674	395470.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	6.51E-08	6.51E-08
1132	397170.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.48E-08	6.48E-08
979	395670.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.46E-08	6.46E-08
720	395370.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	6.44E-08	6.44E-08
771	395520.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	6.42E-08	6.42E-08
1091	397170.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.39E-08	6.39E-08
758	395470.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	6.37E-08	6.37E-08
696	395370.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	6.33E-08	6.33E-08
1050	397170.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	6.33E-08	6.33E-08
1105	395820.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	6.33E-08	6.33E-08
1009	397170.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	6.26E-08	6.26E-08
1338	397220.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	6.26E-08	6.26E-08
804	397168.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	6.24E-08	6.24E-08
1297	397220.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	6.24E-08	6.24E-08
657	395820.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-08	6.22E-08
745	395420.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-08	6.22E-08
845	397170.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-08	6.22E-08
886	397170.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-08	6.22E-08
927	397170.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-08	6.22E-08
968	397170.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	6.22E-08	6.22E-08
895	395570.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	6.17E-08	6.17E-08
1256	397220.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	6.17E-08	6.17E-08
656	395770.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	6.10E-08	6.10E-08
1215	397220.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	6.10E-08	6.10E-08
1314	396020.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	6.06E-08	6.06E-08
1174	397220.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	6.04E-08	6.04E-08
663	395520.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	6.01E-08	6.01E-08
1063	395770.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	6.01E-08	6.01E-08
655	395720.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	5.99E-08	5.99E-08
1021	395720.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.99E-08	5.99E-08
1133	397220.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.95E-08	5.95E-08
1272	395970.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.95E-08	5.95E-08
654	395670.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	5.88E-08	5.88E-08
1092	397220.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.88E-08	5.88E-08
732	395370.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	5.81E-08	5.81E-08
1051	397220.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.81E-08	5.81E-08
1339	397270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	5.79E-08	5.79E-08
805	397218.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	5.77E-08	5.77E-08
1010	397220.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.77E-08	5.77E-08
1298	397270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	5.77E-08	5.77E-08
684	395370.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	5.74E-08	5.74E-08
846	397220.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.74E-08	5.74E-08
887	397220.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	5.74E-08	5.74E-08
969	397220.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.74E-08	5.74E-08
1230	395920.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.74E-08	5.74E-08
673	395420.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	5.72E-08	5.72E-08

928	397220.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.72E-08	5.72E-08
1257	397270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	5.70E-08	5.70E-08
653	395620.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	5.68E-08	5.68E-08
1216	397270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.63E-08	5.63E-08
1175	397270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.56E-08	5.56E-08
978	395620.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.50E-08	5.50E-08
1134	397270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	5.50E-08	5.50E-08
936	395570.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.47E-08	5.47E-08
662	395470.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	5.43E-08	5.43E-08
707	395320.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	5.43E-08	5.43E-08
1093	397270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	5.43E-08	5.43E-08
1188	395870.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	5.41E-08	5.41E-08
812	395520.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.36E-08	5.36E-08
1052	397270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.36E-08	5.36E-08
652	395570.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	5.34E-08	5.34E-08
695	395320.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	5.34E-08	5.34E-08
806	397268.3	3869993	NonCancerChronicDerived_InhSoilDermMMilk	5.34E-08	5.34E-08
847	397270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	5.32E-08	5.32E-08
888	397270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	5.32E-08	5.32E-08
1011	397270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	5.32E-08	5.32E-08
929	397270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	5.30E-08	5.30E-08
970	397270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	5.30E-08	5.30E-08
719	395320.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	5.16E-08	5.16E-08
1146	395820.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	5.16E-08	5.16E-08
1020	395670.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	5.09E-08	5.09E-08
672	395370.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	5.07E-08	5.07E-08
683	395320.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	4.98E-08	4.98E-08
651	395520.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	4.96E-08	4.96E-08
770	395470.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	4.94E-08	4.94E-08
757	395420.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	4.91E-08	4.91E-08
853	395520.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	4.91E-08	4.91E-08
1104	395770.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	4.91E-08	4.91E-08
645	395820.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.89E-08	4.89E-08
661	395420.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	4.87E-08	4.87E-08
744	395370.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	4.87E-08	4.87E-08
1313	395970.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	4.87E-08	4.87E-08
1062	395720.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.80E-08	4.80E-08
644	395770.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.78E-08	4.78E-08
643	395720.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.69E-08	4.69E-08
894	395520.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	4.69E-08	4.69E-08
1271	395920.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	4.69E-08	4.69E-08
977	395570.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	4.67E-08	4.67E-08
642	395670.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.62E-08	4.62E-08
731	395320.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	4.62E-08	4.62E-08
650	395470.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	4.55E-08	4.55E-08
641	395620.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.53E-08	4.53E-08
694	395270.7	3869676	NonCancerChronicDerived_InhSoilDermMMilk	4.53E-08	4.53E-08
706	395270.7	3869726	NonCancerChronicDerived_InhSoilDermMMilk	4.51E-08	4.51E-08
671	395320.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	4.49E-08	4.49E-08
1229	395870.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	4.47E-08	4.47E-08
1019	395620.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	4.42E-08	4.42E-08
660	395370.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	4.40E-08	4.40E-08

640	395570.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.35E-08	4.35E-08
935	395520.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	4.35E-08	4.35E-08
682	395270.7	3869626	NonCancerChronicDerived_InhSoilDermMMilk	4.33E-08	4.33E-08
718	395270.7	3869776	NonCancerChronicDerived_InhSoilDermMMilk	4.24E-08	4.24E-08
1187	395820.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	4.24E-08	4.24E-08
649	395420.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	4.13E-08	4.13E-08
639	395520.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	4.11E-08	4.11E-08
1061	395670.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	4.08E-08	4.08E-08
811	395470.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	4.06E-08	4.06E-08
1145	395770.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	4.04E-08	4.04E-08
659	395320.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	3.97E-08	3.97E-08
670	395270.7	3869576	NonCancerChronicDerived_InhSoilDermMMilk	3.97E-08	3.97E-08
1103	395720.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.97E-08	3.97E-08
633	395820.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.95E-08	3.95E-08
743	395320.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	3.93E-08	3.93E-08
756	395370.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	3.93E-08	3.93E-08
1312	395920.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.90E-08	3.90E-08
976	395520.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.88E-08	3.88E-08
769	395420.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.86E-08	3.86E-08
1018	395570.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.86E-08	3.86E-08
632	395770.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.84E-08	3.84E-08
638	395470.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	3.84E-08	3.84E-08
648	395370.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	3.79E-08	3.79E-08
631	395720.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.77E-08	3.77E-08
730	395270.7	3869826	NonCancerChronicDerived_InhSoilDermMMilk	3.77E-08	3.77E-08
1270	395870.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.75E-08	3.75E-08
852	395470.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	3.72E-08	3.72E-08
630	395670.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.70E-08	3.70E-08
629	395620.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.66E-08	3.66E-08
628	395570.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.59E-08	3.59E-08
658	395270.7	3869526	NonCancerChronicDerived_InhSoilDermMMilk	3.59E-08	3.59E-08
893	395470.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	3.59E-08	3.59E-08
1060	395620.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.59E-08	3.59E-08
1228	395820.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	3.57E-08	3.57E-08
637	395420.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	3.55E-08	3.55E-08
647	395320.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	3.46E-08	3.46E-08
934	395470.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	3.46E-08	3.46E-08
627	395520.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.43E-08	3.43E-08
1186	395770.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	3.41E-08	3.41E-08
1017	395520.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	3.37E-08	3.37E-08
1102	395670.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	3.37E-08	3.37E-08
1144	395720.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	3.32E-08	3.32E-08
621	395820.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.25E-08	3.25E-08
626	395470.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.25E-08	3.25E-08
636	395370.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	3.25E-08	3.25E-08
975	395470.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	3.23E-08	3.23E-08
742	395270.7	3869876	NonCancerChronicDerived_InhSoilDermMMilk	3.21E-08	3.21E-08
755	395320.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	3.21E-08	3.21E-08
810	395420.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	3.21E-08	3.21E-08
1059	395570.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	3.19E-08	3.19E-08
1311	395870.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	3.19E-08	3.19E-08
620	395770.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.16E-08	3.16E-08

646	395270.7	3869476	NonCancerChronicDerived_InhSoilDermMMilk	3.16E-08	3.16E-08
768	395370.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	3.14E-08	3.14E-08
619	395720.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.10E-08	3.10E-08
1269	395820.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	3.05E-08	3.05E-08
618	395670.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.03E-08	3.03E-08
625	395420.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	3.03E-08	3.03E-08
617	395620.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	3.01E-08	3.01E-08
635	395320.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	3.01E-08	3.01E-08
616	395570.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.96E-08	2.96E-08
1101	395620.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.94E-08	2.94E-08
1016	395470.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.92E-08	2.92E-08
1227	395770.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.92E-08	2.92E-08
615	395520.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.89E-08	2.89E-08
851	395420.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.89E-08	2.89E-08
1058	395520.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.85E-08	2.85E-08
624	395370.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.83E-08	2.83E-08
1143	395670.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.83E-08	2.83E-08
1185	395720.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.83E-08	2.83E-08
614	395470.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.78E-08	2.78E-08
634	395270.7	3869426	NonCancerChronicDerived_InhSoilDermMMilk	2.78E-08	2.78E-08
892	395420.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.78E-08	2.78E-08
933	395420.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.76E-08	2.76E-08
609	395820.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.74E-08	2.74E-08
608	395770.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.67E-08	2.67E-08
974	395420.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.67E-08	2.67E-08
754	395270.7	3869926	NonCancerChronicDerived_InhSoilDermMMilk	2.65E-08	2.65E-08
1100	395570.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.65E-08	2.65E-08
613	395420.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.63E-08	2.63E-08
623	395320.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.63E-08	2.63E-08
1310	395820.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.63E-08	2.63E-08
607	395720.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.58E-08	2.58E-08
767	395320.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.58E-08	2.58E-08
809	395370.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.58E-08	2.58E-08
1057	395470.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.56E-08	2.56E-08
606	395670.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.54E-08	2.54E-08
605	395620.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.51E-08	2.51E-08
1268	395770.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.51E-08	2.51E-08
604	395570.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.49E-08	2.49E-08
1015	395420.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.49E-08	2.49E-08
612	395370.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.47E-08	2.47E-08
1142	395620.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.47E-08	2.47E-08
603	395520.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.45E-08	2.45E-08
622	395270.7	3869376	NonCancerChronicDerived_InhSoilDermMMilk	2.45E-08	2.45E-08
1226	395720.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.42E-08	2.42E-08
1099	395520.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.40E-08	2.40E-08
1184	395670.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.40E-08	2.40E-08
602	395470.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.38E-08	2.38E-08
597	395820.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.33E-08	2.33E-08
611	395320.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-08	2.31E-08
850	395370.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	2.31E-08	2.31E-08
601	395420.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.29E-08	2.29E-08
596	395770.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.27E-08	2.27E-08

1056	395420.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	2.24E-08	2.24E-08
891	395370.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	2.22E-08	2.22E-08
932	395370.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	2.22E-08	2.22E-08
1141	395570.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.22E-08	2.22E-08
595	395720.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.20E-08	2.20E-08
1098	395470.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.20E-08	2.20E-08
600	395370.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-08	2.18E-08
610	395270.7	3869326	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-08	2.18E-08
973	395370.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-08	2.18E-08
1309	395770.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	2.18E-08	2.18E-08
766	395270.7	3869976	NonCancerChronicDerived_InhSoilDermMMilk	2.15E-08	2.15E-08
594	395670.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-08	2.13E-08
808	395320.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	2.13E-08	2.13E-08
592	395570.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-08	2.11E-08
593	395620.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-08	2.11E-08
1014	395370.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-08	2.11E-08
1183	395620.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-08	2.11E-08
1267	395720.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	2.11E-08	2.11E-08
591	395520.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.09E-08	2.09E-08
590	395470.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-08	2.06E-08
1225	395670.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	2.06E-08	2.06E-08
599	395320.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	2.04E-08	2.04E-08
1140	395520.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	2.04E-08	2.04E-08
585	395820.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	2.02E-08	2.02E-08
589	395420.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-08	2.00E-08
1097	395420.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	2.00E-08	2.00E-08
584	395770.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-08	1.97E-08
1055	395370.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.97E-08	1.97E-08
598	395270.7	3869276	NonCancerChronicDerived_InhSoilDermMMilk	1.93E-08	1.93E-08
583	395720.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-08	1.91E-08
588	395370.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-08	1.91E-08
1182	395570.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.91E-08	1.91E-08
849	395320.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-08	1.88E-08
1139	395470.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.88E-08	1.88E-08
582	395670.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.84E-08	1.84E-08
1308	395720.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.84E-08	1.84E-08
581	395620.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-08	1.82E-08
587	395320.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-08	1.82E-08
1224	395620.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-08	1.82E-08
1266	395670.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.82E-08	1.82E-08
579	395520.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-08	1.80E-08
580	395570.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-08	1.80E-08
807	395270.7	3870026	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-08	1.80E-08
890	395320.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-08	1.80E-08
931	395320.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-08	1.80E-08
972	395320.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-08	1.80E-08
1096	395370.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.80E-08	1.80E-08
573	395820.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.77E-08	1.77E-08
578	395470.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.77E-08	1.77E-08
1013	395320.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.77E-08	1.77E-08
577	395420.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.75E-08	1.75E-08
1138	395420.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.75E-08	1.75E-08

572	395770.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.73E-08	1.73E-08
1181	395520.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.73E-08	1.73E-08
586	395270.7	3869226	NonCancerChronicDerived_InhSoilDermMMilk	1.71E-08	1.71E-08
1054	395320.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.71E-08	1.71E-08
576	395370.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.68E-08	1.68E-08
571	395720.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.66E-08	1.66E-08
1223	395570.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.64E-08	1.64E-08
570	395670.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-08	1.62E-08
575	395320.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-08	1.62E-08
1095	395320.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-08	1.62E-08
1137	395370.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-08	1.62E-08
1180	395470.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.62E-08	1.62E-08
1265	395620.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.59E-08	1.59E-08
1307	395670.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.59E-08	1.59E-08
561	395820.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.57E-08	1.57E-08
569	395620.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.57E-08	1.57E-08
848	395270.7	3870076	NonCancerChronicDerived_InhSoilDermMMilk	1.57E-08	1.57E-08
566	395470.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-08	1.55E-08
567	395520.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-08	1.55E-08
568	395570.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-08	1.55E-08
574	395270.7	3869176	NonCancerChronicDerived_InhSoilDermMMilk	1.55E-08	1.55E-08
560	395770.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.53E-08	1.53E-08
565	395420.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.53E-08	1.53E-08
564	395370.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-08	1.50E-08
1012	395270.7	3870276	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-08	1.50E-08
1179	395420.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-08	1.50E-08
1222	395520.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.50E-08	1.50E-08
559	395720.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-08	1.48E-08
889	395270.7	3870126	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-08	1.48E-08
971	395270.7	3870226	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-08	1.48E-08
1053	395270.7	3870326	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-08	1.48E-08
1136	395320.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.48E-08	1.48E-08
563	395320.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-08	1.46E-08
930	395270.7	3870176	NonCancerChronicDerived_InhSoilDermMMilk	1.46E-08	1.46E-08
1094	395270.7	3870376	NonCancerChronicDerived_InhSoilDermMMilk	1.44E-08	1.44E-08
1264	395570.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.44E-08	1.44E-08
549	395820.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-08	1.41E-08
558	395670.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-08	1.41E-08
1178	395370.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-08	1.41E-08
1306	395620.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.41E-08	1.41E-08
562	395270.7	3869126	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-08	1.39E-08
1221	395470.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.39E-08	1.39E-08
548	395770.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.37E-08	1.37E-08
556	395570.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.37E-08	1.37E-08
557	395620.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.37E-08	1.37E-08
553	395420.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-08	1.35E-08
554	395470.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-08	1.35E-08
555	395520.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-08	1.35E-08
1135	395270.7	3870426	NonCancerChronicDerived_InhSoilDermMMilk	1.35E-08	1.35E-08
547	395720.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.32E-08	1.32E-08
552	395370.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.32E-08	1.32E-08
1177	395320.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.32E-08	1.32E-08

551	395320.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-08	1.30E-08
1220	395420.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-08	1.30E-08
1263	395520.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.30E-08	1.30E-08
1305	395570.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.28E-08	1.28E-08
537	395820.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-08	1.26E-08
546	395670.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-08	1.26E-08
550	395270.7	3869076	NonCancerChronicDerived_InhSoilDermMMilk	1.26E-08	1.26E-08
536	395770.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-08	1.23E-08
1176	395270.7	3870476	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-08	1.23E-08
1219	395370.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.23E-08	1.23E-08
545	395620.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-08	1.21E-08
1262	395470.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.21E-08	1.21E-08
535	395720.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-08	1.19E-08
540	395370.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-08	1.19E-08
541	395420.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-08	1.19E-08
542	395470.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-08	1.19E-08
543	395520.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-08	1.19E-08
544	395570.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-08	1.19E-08
1218	395320.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.19E-08	1.19E-08
539	395320.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-08	1.17E-08
1304	395520.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.17E-08	1.17E-08
525	395820.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-08	1.14E-08
534	395670.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-08	1.14E-08
1261	395420.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.14E-08	1.14E-08
524	395770.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-08	1.12E-08
538	395270.7	3869026	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-08	1.12E-08
1217	395270.7	3870526	NonCancerChronicDerived_InhSoilDermMMilk	1.12E-08	1.12E-08
533	395620.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-08	1.10E-08
1260	395370.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.10E-08	1.10E-08
523	395720.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-08	1.08E-08
532	395570.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-08	1.08E-08
1303	395470.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.08E-08	1.08E-08
513	395820.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-08	1.05E-08
527	395320.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-08	1.05E-08
528	395370.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-08	1.05E-08
529	395420.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-08	1.05E-08
530	395470.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-08	1.05E-08
531	395520.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-08	1.05E-08
1259	395320.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.05E-08	1.05E-08
512	395770.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-08	1.03E-08
522	395670.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-08	1.03E-08
526	395270.7	3868976	NonCancerChronicDerived_InhSoilDermMMilk	1.03E-08	1.03E-08
1258	395270.7	3870576	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-08	1.01E-08
1302	395420.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	1.01E-08	1.01E-08
511	395720.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	9.87E-09	9.87E-09
521	395620.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.87E-09	9.87E-09
501	395820.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	9.65E-09	9.65E-09
520	395570.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.65E-09	9.65E-09
1301	395370.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	9.65E-09	9.65E-09
500	395770.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-09	9.42E-09
510	395670.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-09	9.42E-09
515	395320.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-09	9.42E-09

516	395370.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-09	9.42E-09
517	395420.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-09	9.42E-09
518	395470.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-09	9.42E-09
519	395520.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.42E-09	9.42E-09
499	395720.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	9.20E-09	9.20E-09
514	395270.7	3868926	NonCancerChronicDerived_InhSoilDermMMilk	9.20E-09	9.20E-09
1300	395320.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	9.20E-09	9.20E-09
489	395820.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	8.98E-09	8.98E-09
509	395620.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.98E-09	8.98E-09
1299	395270.7	3870626	NonCancerChronicDerived_InhSoilDermMMilk	8.98E-09	8.98E-09
488	395770.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	8.75E-09	8.75E-09
498	395670.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	8.75E-09	8.75E-09
508	395570.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.75E-09	8.75E-09
487	395720.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-09	8.53E-09
502	395270.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-09	8.53E-09
503	395320.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-09	8.53E-09
504	395370.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-09	8.53E-09
505	395420.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-09	8.53E-09
506	395470.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-09	8.53E-09
507	395520.7	3868876	NonCancerChronicDerived_InhSoilDermMMilk	8.53E-09	8.53E-09
476	395770.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	8.30E-09	8.30E-09
477	395820.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	8.30E-09	8.30E-09
497	395620.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	8.30E-09	8.30E-09
486	395670.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	8.08E-09	8.08E-09
496	395570.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	8.08E-09	8.08E-09
465	395820.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	7.85E-09	7.85E-09
475	395720.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	7.85E-09	7.85E-09
495	395520.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	7.85E-09	7.85E-09
464	395770.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
474	395670.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
485	395620.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
490	395270.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
491	395320.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
492	395370.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
493	395420.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
494	395470.7	3868826	NonCancerChronicDerived_InhSoilDermMMilk	7.63E-09	7.63E-09
463	395720.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	7.40E-09	7.40E-09
484	395570.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	7.40E-09	7.40E-09
452	395770.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	7.18E-09	7.18E-09
453	395820.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	7.18E-09	7.18E-09
462	395670.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	7.18E-09	7.18E-09
473	395620.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	7.18E-09	7.18E-09
483	395520.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	7.18E-09	7.18E-09
451	395720.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-09	6.96E-09
472	395570.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-09	6.96E-09
478	395270.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-09	6.96E-09
479	395320.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-09	6.96E-09
480	395370.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-09	6.96E-09
481	395420.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-09	6.96E-09
482	395470.7	3868776	NonCancerChronicDerived_InhSoilDermMMilk	6.96E-09	6.96E-09
450	395670.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	6.73E-09	6.73E-09
461	395620.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	6.73E-09	6.73E-09

460	395570.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	6.51E-09	6.51E-09
470	395470.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.51E-09	6.51E-09
471	395520.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.51E-09	6.51E-09
449	395620.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	6.28E-09	6.28E-09
466	395270.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.28E-09	6.28E-09
467	395320.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.28E-09	6.28E-09
468	395370.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.28E-09	6.28E-09
469	395420.7	3868726	NonCancerChronicDerived_InhSoilDermMMilk	6.28E-09	6.28E-09
448	395570.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	6.06E-09	6.06E-09
458	395470.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	6.06E-09	6.06E-09
459	395520.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	6.06E-09	6.06E-09
447	395520.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.83E-09	5.83E-09
454	395270.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	5.83E-09	5.83E-09
455	395320.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	5.83E-09	5.83E-09
456	395370.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	5.83E-09	5.83E-09
457	395420.7	3868676	NonCancerChronicDerived_InhSoilDermMMilk	5.83E-09	5.83E-09
446	395470.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.61E-09	5.61E-09
442	395270.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.39E-09	5.39E-09
443	395320.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.39E-09	5.39E-09
444	395370.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.39E-09	5.39E-09
445	395420.7	3868626	NonCancerChronicDerived_InhSoilDermMMilk	5.39E-09	5.39E-09