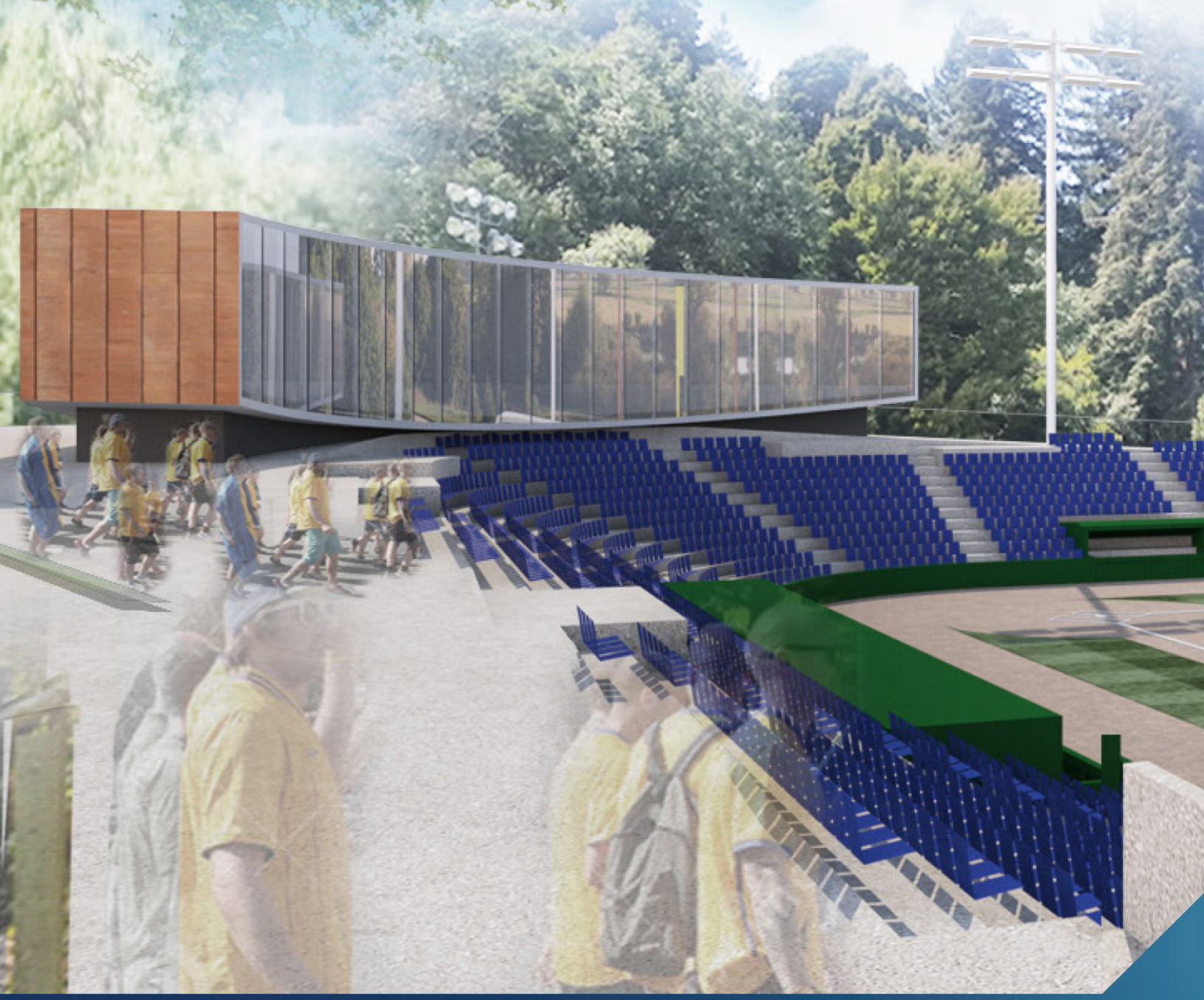


Berkeley
UNIVERSITY OF CALIFORNIA

Cal Softball Field Renovation Project

Draft Environmental Impact Report - APPENDICES

December 2023 - State Clearinghouse Number: 2022110035

APPENDIX A-1

Notice of Preparation and Initial Study

UNIVERSITY OF CALIFORNIA, BERKELEY

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

PHYSICAL & ENVIRONMENTAL PLANNING BERKELEY, CALIFORNIA 94720-1382 A & E # 1382

November 2, 2022

State of California
Office of Planning and Research
1400 Tenth Street
Sacramento, CA 95814

NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT

Project Title: Cal Softball Field Renovation Project

Lead Agency: The Regents of the University of California (University of California)

Project Location: University of California, Berkeley, within the Hill Campus West, on Centennial Drive, east of Stadium Rim Way and the Witter Rugby Field, west of the Strawberry Canyon Pool and Haas Clubhouse

County: Alameda County

Notice is hereby given that the University of California, Berkeley will prepare an Environmental Impact Report (EIR) for the University of California, Berkeley (University or UC Berkeley) Cal Softball Field Renovation Project (project or proposed project). The University, acting as the Lead Agency, has determined that the proposed project could result in potentially significant environmental impacts and that an EIR is required pursuant to the California Environmental Quality Act (CEQA).

Project Description

The University proposes to renovate and improve the existing Cal Softball Field (Cal Softball Field or field), which is the home for the UC Berkeley Intercollegiate Athletic (IA) Women's Softball Program. The project site is located within the Hill Campus West of UC Berkeley and the Strawberry Canyon Recreation Area at the site of the existing Cal Softball Field. The project would preserve and upgrade the existing softball facility to meet modern safety and competition standards for the IA Women's Softball Program and Recreational Sports Intramural softball players, as well as support campus compliance with Title IX of the Education Amendments of 1972 (20 USC 1681 et seq.) (Title IX) through the provision of equitable athletics facilities for male and female student athletes. The use of the softball facility would remain largely similar to current uses, primarily providing additional spectator and player amenities and seating for up to 1,511 spectators, up from approximately 1,340 spectator seats under existing conditions. The primary physical changes associated with the project would include providing additional permanent spectator seats in place of temporary bleachers, a press box, spectator concourse, replacement competition-grade lights, restrooms, public address system, expanded playing field dimensions, team and locker rooms, a ticket booth, improved training facilities (e.g., batting cages), entry plaza, landscaping, sustainable design features, access and bus stop improvements, and utilities (refer to

Attachment A, Figures 1−3). The proposed project will remove approximately 85 parking spaces and retain approximately 25 parking spaces in the existing Witter Lot. The proposed project also includes the implementation of applicable UC Berkeley's continuing best practices (CBPs), a game-day transportation demand management (TDM) plan, and a project-specific wildfire management plan.

The use of the proposed project would be similar to the use of the existing softball field. During the fall, the facility would be primarily used for practices, intramural play, campus/clinics, and other occasional daytime competitions. During the spring semester, the facility use would be comparatively more active, with up to 21 regular season softball events and up to 4 post-season events, as well as practices and intramural sports and activities when not scheduled for IA use. Overall, competitive games would increase somewhat from 15 to 20 under existing conditions to up to 25 with the proposed project. During the summer, the facility would not be used for competition, but would be used for intramural recreation, as well as Rec Sports summer camps, similar to existing uses. Additional project details are provided in Attachment B, Initial Study, for the project.

Probable Environmental Effects of the Proposed Project

UC Berkeley has determined that an EIR will be prepared for the proposed project. Therefore, as allowed under Section 15063 of the CEQA Guidelines (Title 14 Cal. Code Regs.), UC Berkeley has prepared an Initial Study to help determine if the project may have a significant effect on the environment (see Attachment B). As required, the EIR will focus on the significant effects of the proposed project and will document the reasons for concluding that other effects will be less than significant. Where significant or potentially significant environmental impacts are identified, the EIR will also discuss feasible mitigation measures to avoid or reduce these impacts, and a reasonable range of potentially feasible alternatives.

Aesthetics

The EIR will assess potential impacts to scenic vistas and resources, existing visual character, and light and glare that may occur due to the construction and operation of the renovated softball field. The proposed softball field lighting will be assessed with a general illumination study to evaluate potential impacts from light and glare to the surrounding areas, which will be evaluated in comparison to existing conditions. The EIR would also rely on photo simulations of the project to assess potential impacts on views from key observation points.

Biology

Potential impacts to biological resources could occur as a result of the proposed construction and operation of the softball field project. The EIR analysis will address both direct impacts from habitat removal and indirect impacts from noise and lighting and other disturbances, as a result of the proposed construction and operation of the softball field project. A biological resources assessment for the proposed project and EIR will be conducted, which will include a review of current biological resource databases. The EIR will also rely on an updated general survey of the biological study area for vegetation communities, plant and wildlife species, and potential special-status species occurrences and habitat. Results of the project-specific literature review and field survey will be incorporated into the EIR analysis.

Cultural and Tribal Cultural Resources

Potential impacts to cultural and tribal cultural resources, and paleontological resources could occur as a result of proposed construction and ground disturbing activities. It is possible that cultural resources could be present within the project site. As such, these impacts will be assessed by conducting a California Historical Resources Information Systems (CHRIS) records search update and conducting a field survey of the project

site. Results of the records search and field survey will be incorporated into the EIR analysis. Additionally, potential indirect off-site impacts on the adjacent Panoramic Hill National Register of Historic Places (NRHP) listed historic district will also be addressed in the EIR.

Noise

Potential temporary construction and demolition noise and vibration impacts to sensitive receivers (residences) in the vicinity of the proposed project will be assessed based on noise measurements taken at the project site and review of construction phases and equipment usage. Noise impacts from operation of the renovated softball field will be analyzed using a 3-D sound prediction model to quantify combined noise levels at the closest noise-sensitive uses from softball game activity, spectator participation, and public address system use. Results of the noise analyses will be incorporated into the EIR analysis.

Transportation

Potential construction and operational transportation impacts of the proposed project will be assessed with a qualitative transportation assessment for the surrounding street network in the project area. Impacts associated with trips generated from operation of the renovated softball field will be assessed in terms of vehicle miles traveled. In addition, the EIR will assess the project site plan for vehicular, pedestrian, bicycle, and transit circulation against campus and/or City transportation infrastructure plans and policies. The EIR will also assess the project to determine whether impacts to emergency vehicle access would occur.

Wildfire

To assess the potential wildfire impacts associated with construction and operation of the project, the EIR will include a review of publicly available fire hazard and fire history information from CAL FIRE, the City of Berkeley, UC Berkeley, and the County of Alameda, as well as emergency response or evacuation plans for the project area. The analysis will summarize emergency response resources and the existing fire environment in the project area, including slopes, climate/weather, fire history, and fuel sources on and surrounding the project site. The EIR will review applicable federal, state and local plans, policies and regulations governing wildfire hazards and will determine whether construction and operation of the project is in compliance with these plans and regulations. The EIR will also evaluate and consider the project-specific wildfire management plan being prepared for the project.

Impacts Not Found Significant

The EIR will also explain why other effects were determined to not be potentially significant and were not discussed in detail in the EIR. Based on Appendix B, Initial Study, these topics are likely to include Agricultural and Forestry Resources, Air Quality, Energy, Geology and Soils, Greenhouse Gas Emissions, Hazards and Hazardous Materials, Hydrology and Water Quality, Land Use and Planning, Mineral Resources, Population and Housing, Public Services, Recreation, and Utilities and Service Systems.

Other Sections

The EIR will include additional topics as required by the CEQA Guidelines including growth inducement, cumulative impacts, and alternatives. The EIR will describe and evaluate a reasonable range of potentially feasible alternatives to the proposed project that would feasibly attain most of the proposed project's basic objectives while avoiding or substantially lessening any significant effects of the proposed project. The "No Project" alternative will also be evaluated as required by CEQA.

Project Comment and Scoping Session

UC Berkeley requests comments and guidance on the scope and content of the EIR from interested public agencies, organizations, and individuals. With respect to the views of Responsible and Trustee Agencies as to significant environmental issues, UC Berkeley needs to know the significant environmental issues and reasonable alternatives and mitigation measures that are germane to each agency's statutory responsibilities in connection with the proposed project.

Due to time limits mandated by State law, your response must be sent at the earliest possible date, but no later than the close of the Notice of Preparation (NOP) review period at 5:00 p.m. December 5, 2022. If you submit comments on the scope of the EIR, you will automatically be added to UC Berkeley's distribution list to receive future notices and announcements about the environmental review process for this and all other capital projects. If you do not wish to submit comments on the scope of the EIR but would like to be added to the university's mailing list, you can subscribe here: https://capitalstrategies.berkeley.edu/subscribe.

Responses to this NOP must be received by 5:00 p.m. on December 5, 2022. Please e-mail or send your written response to:

Shraddha Navalli Patil, Senior Planner
Physical & Environmental Planning
University of California, Berkeley
300 A&E Building, Berkeley, CA 94720-1382

Email: planning@berkeley.edu
Phone number: (510) 495-5786

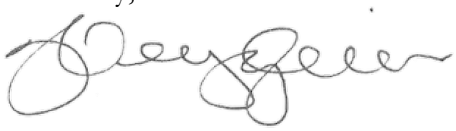
Please include "Cal Softball Field Renovation EIR" as the subject. Public agencies providing comments are asked to include a contact person for the agency.

UC Berkeley will host an online public scoping session to receive public comments on the scope of the EIR. The scoping session will be held exclusively through Zoom videoconference. **The public hearing will be held on November 17, 2022 starting at 7:00 PM.** Because of time restraints, there will be a time limit of two minutes for all public comments.

For instructions to access and participate in the Zoom meeting by telephone or from a PC, Mac, iPad, iPhone, or Android device, please visit: https://capitalstrategies.berkeley.edu/public-meetings

If you need to review a paper copy of this notice or have questions regarding this project and associated environmental review, please contact Shraddha Navalli Patil, Senior Planner, Physical & Environmental Planning, UC Berkeley, at planning@berkeley.edu.

Sincerely,

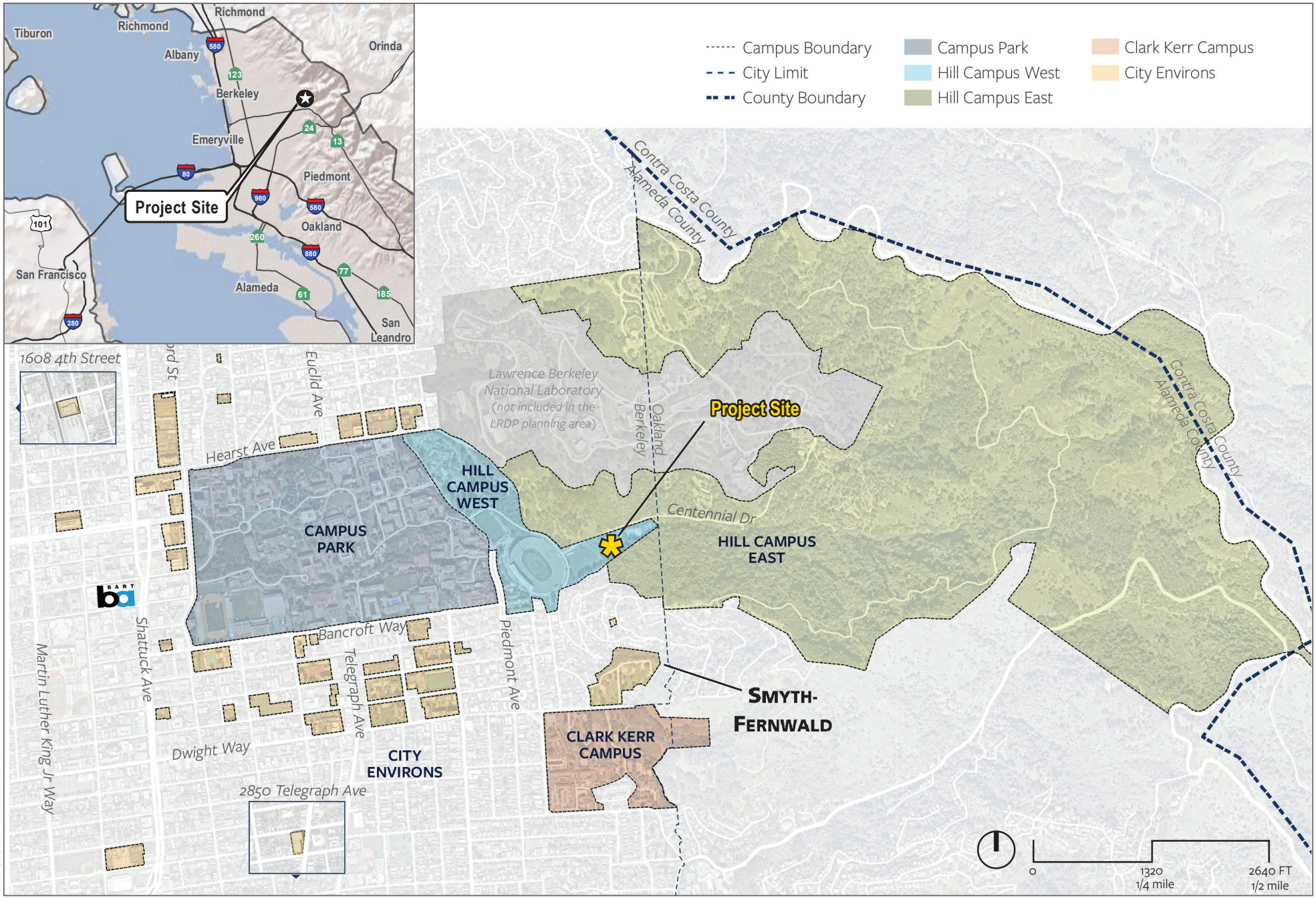


Wendy Hillis
Campus Architect, Assistant Vice Chancellor
University of California, Berkeley

Attachment A: Figures
Attachment B: Initial Study

ATTACHMENT A

Figures



SOURCE: UC Berekeley 2018

DUDEK

FIGURE 1

Project Location

Cal Softball Field Renovation Project



SOURCE: ESRI World Imagery 2018

DUDEK

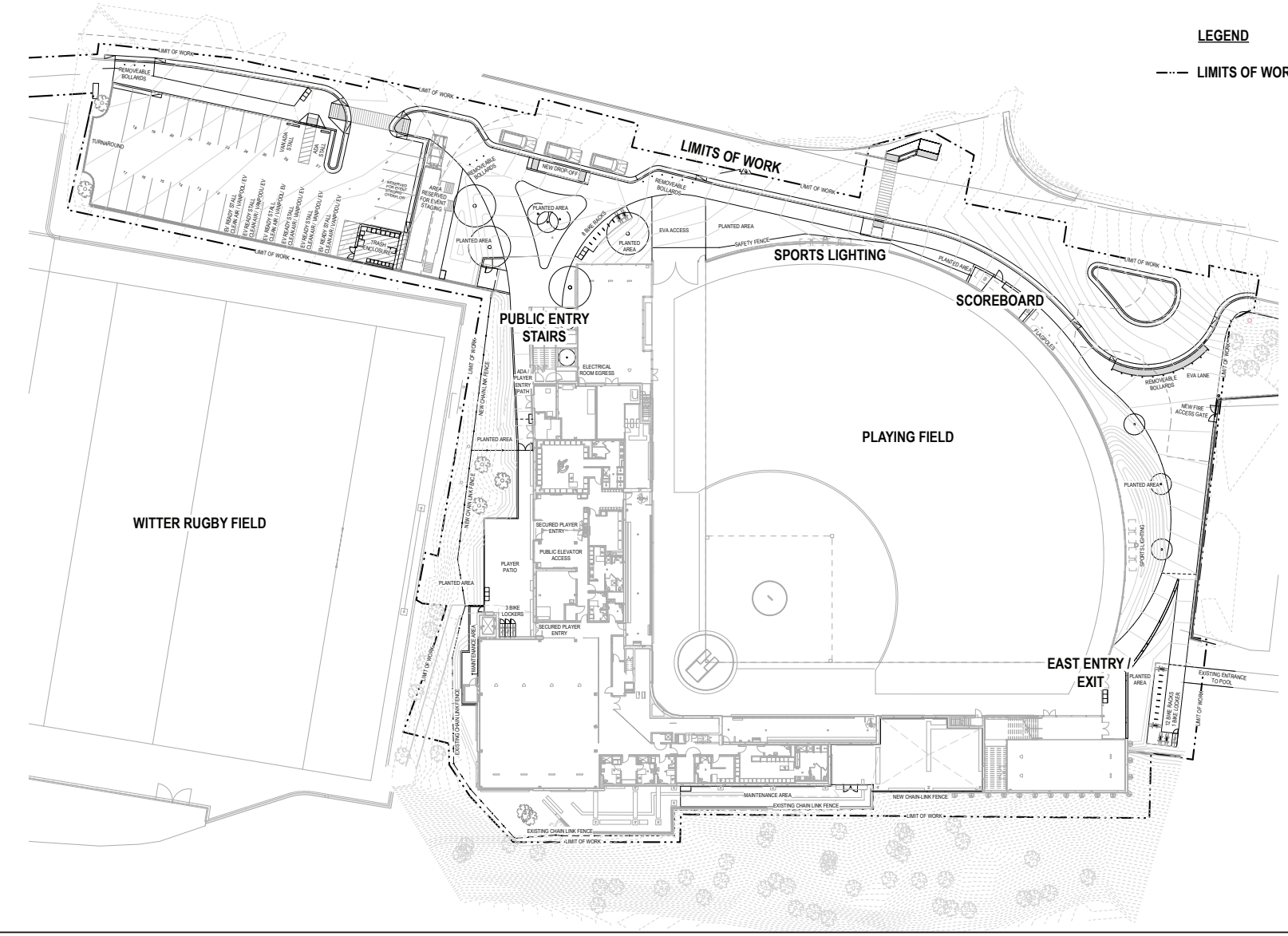
0 50 100 Feet

FIGURE 2

Project Site

Cal Softball Field Renovation Project

(Project Site Boundary extends west for connection to existing campus utilities.
See Figure 2 for full boundary extents.)



SOURCE: HOK Architects

FIGURE 3
Overall Site Plan
Cal Softball Field Renovation Project

DUDEK

ATTACHMENT B

Initial Study

Cal Softball Field Renovation Project
Initial Study

Prepared for:

University of California, Berkeley
Physical and Environmental Planning
300c A and E Building MC#1382
Berkeley, California 94720
Contact: Shraddha Navalli Patil, Ph.D.

Prepared by:

DUDEK
1630 San Pablo Avenue, Suite 300
Oakland, California 94612
Contact: Ann Sansevero, AICP

NOVEMBER 2022

Printed on 30% post-consumer recycled material.

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
ACMs	asbestos-containing materials
BAAQMD	Bay Area Air Quality Management District
BD+C	Building Design and Construction
BFD	Berkeley Fire Department
BMPs	best management practices
BUSD	Berkeley Unified School District
CEQA	California Environmental Quality Act
CCR	California Code of Regulations
DOC	Department of Conservation
DTSC	Department of Toxic Substance Control
EBCE	East Bay Community Energy
EBMUD	East Bay Municipal Utility District
EIR	Environmental Impact Report
EOP	Emergency Operations Plan
EPA	U.S. Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMMP	Farmland Mapping and Monitoring Program
IA	Intercollegiate Athletics
IS	Initial Study
LBP	Lead-based paint
LEED	Leadership in Energy and Environmental Design
LID	Low-impact development
LRDP	Long Range Development Plan
mgd	million gallons per day
mgy	million gallons per year
MRZs	Mineral Resource Zones
MWWTP	Main Wastewater Treatment Plant
NPDES	National Pollutant Discharge Elimination System
NOP	Notice of Preparation
PG&E	Pacific Gas and Electric Company
PV	photovoltaic
RWQCB	Regional Water Quality Control Board
SGMA	Sustainable Groundwater Management Act
SMARA	Surface Mining Control and Reclamation Act
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
UCPD	University of California Police Department
USDA	US Department of Agriculture
UWMP	Urban Water Management Plan

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1. Initial Study Introduction

PROJECT INFORMATION

1. Project title:

Cal Softball Field Renovation Project

2. Lead agency name and address:

The Regents of the University of California
1111 Franklin Street,12th floor
Oakland, California 94607

3. Contact person and phone number:

Shraddha Navalli Patil, Ph.D., (650) 223-3433

4. Project location:

University of California, Berkeley, within the Hill Campus West and the Strawberry Canyon Recreation Area, at the existing Cal Softball Field. The project site is located on Centennial Drive, off Stadium Rim Way. Centennial Drive is an east–west roadway that extends between Stadium Rim Way and Grizzly Peak Boulevard

5. Project sponsor's name and address:

University of California, Berkeley
Physical & Environmental Planning
Berkeley, California 94720-1382

6. General plan designation and zoning:

The project site is located in the Hill Campus West land use zone, per the 2021 LRDP.

7. Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):

The University proposes to renovate and improve the existing Cal Softball Field (Cal Softball Field or field), which is the home for the UC Berkeley Intercollegiate Athletic (IA) Women's Softball Program. The project site is located within the Hill Campus West of UC Berkeley and the Strawberry Canyon Recreation Area at the site of the existing Cal Softball Field. The project would preserve and upgrade the existing softball facility to meet modern safety and competition standards for the IA Women's Softball Program and Recreational Sports Intramural softball players, as

well as support campus compliance with Title IX [1] of the Education Amendments of 1972 (20 USC 1681 et seq.) (Title IX) through the provision of equitable athletics facilities for male and female student athletes. The use of the softball facility would remain largely similar to current uses, primarily providing additional spectator and player amenities and seating for up to 1,511 spectators, up from approximately 1,340 spectator seats under existing conditions. The primary physical changes associated with the project would include providing additional permanent spectator seats in place of temporary bleachers, a press box, spectator concourse, replacement competition-grade lights, restrooms, public address system, expanded playing field dimensions, team and locker rooms, a ticket booth, improved training facilities (e.g., batting cages), entry plaza, landscaping, sustainable design features, access and bus stop improvements, and utility connections to existing services (see Notice of Preparation [NOP] Attachment A, Figures 1– 3). The proposed project will remove approximately 85 parking spaces and retain approximately 25 parking spaces in the existing Witter Lot. The proposed project also includes the implementation of applicable UC Berkeley university continuing best practices (UC Berkeley 2021c and 2021d), a game-day transportation demand management (TDM) plan, and a project-specific wildfire management plan.

The use of the proposed project would be similar to the use of the existing softball field. During the fall, the facility would be primarily used for practices, intramural play, campus/clinics, and other occasional daytime competitions. During the spring semester, the facility use would be comparatively more active, with up to 21 regular season softball events and up to 4 post-season events, as well as practices and intramural sports and activities when not scheduled for IA use. Overall, competitive games would increase somewhat from 15 to 20 under existing conditions to up to 25 with the proposed project. During the summer, the facility would not be used for competition, but would be used for intramural recreation, as well as Rec Sports summer camps (similar to existing uses).

The renovated facility would be constructed on the site of the existing Cal Softball Field; the total project site area is approximately 3 acres. The existing project site includes turf grass on the field, developed impervious surfaces and existing landscaping. The project site is relatively flat with elevation ranges from 478 feet above mean sea level in the western corner of Witter Lot to 495 feet above mean sea level in the northeastern corner of the parking lot.

Surrounding uses include Witter Rugby Field which is directly to the west of the project site, and Strawberry Canyon Pool and the Haas Clubhouse are to the northeast. California Memorial Stadium is located at the terminus of Centennial Drive to the west. Immediately south of the project site is a densely wooded area, which includes an unnamed recreational trail running eastward up into the Hill Campus East from the western end of Canyon Road. Beyond the wooded area to the south of the project site is the Panoramic Hill residential neighborhood.

The proposed project would consist of the following components.

Softball Field. The improved softball field would be in the same location as the existing field and would remain oriented to the northeast with home plate at the southwest corner of the site. The outfield fences would be extended to 190 feet down to the right and left baselines, and to 220 feet to the centerfield to comply with NCAA standards. The outfield fence would be up to eight feet high from finished grade to the top of the fence. The infield surface would be resurfaced with new fine-grained aggregate material and the existing grass outfield would be replaced with synthetic turf.

Lighting. The existing field lights on 4, 50-foot towers would be replaced and upgraded by installing 6, 85-foot-high towers that would illuminate the infield, outfield, bullpen, and seating. Two light towers would be placed along the

[1] Title IX is a portion of the United States Education Amendments of 1972 that makes it illegal to discriminate against a person on the basis of sex in any federally funded activity and applies to all aspects of education, including athletics programs. As it relates to athletics, one of the requirements of Title IX is that women and men be provided equitable opportunities to participate in sports.

left baseline, facing east; two light towers would be placed along the right baseline, facing north; and two towers would be placed along the outfield fence on the north and east corners of the site, facing southeast and northwest, respectively. For evening intercollegiate competition, all lights would be fully illuminated; for evening intramural or other uses, the lighting would be dimmer. The lighting plan is designed to concentrate light on the infield and outfield and dissipate foot-candles toward the edges of the field. There will be no change in the existing daily schedule for use of the field lights with the proposed project.

The press box, staircases, restrooms, and home and visiting team areas would have occupancy sensors that would be connected to the lighting control system. In addition to competition field lights, the project would include upgraded street and pedestrian lighting. All areas of public circulation would have recessed lights angled downward to reduce light pollution and glare, to be compatible with the rustic character of the Hill Campus West. The improved field would not use diesel backup generators for lighting or any other purposes.

Softball Field Building. The project involves construction of an approximately 30,500-square-foot two-story structure housing the bullpen, the concourse, and the press box, which would be built on the southwest corner of the site adjacent to a new fan concourse wrapping around up to 1,511 permanent seats. Approximately 22,000 square feet would be ballpark spaces including bleachers, bullpens and dugouts; and approximately 7,927 square feet would be enclosed spaces including locker rooms, press box, lounges, and training room. The proposed building would be set back 100 feet from the curb of Centennial Drive to accommodate the landscape treatment at the entrance and the remaining existing parking in Witter Lot. The setback depth would vary along the building edges of the concourse and the press box. The top of the press box, which represents the tallest portion of the building, would be 35 feet high, and the concourse would be 20 feet high. Although views would be filtered through the surrounding trees, as with the current facility, the project would be visible from Centennial Drive and Canyon Road. The main entrance of the project would be located at the northwest corner of the site on Centennial Drive, between the new Softball Field and the existing Witter Rugby Field, and is planned and designed to form a landscaped entry plaza that serves as a gathering place, and provides a ticket booth, signage to the softball field, and direct access to those with special mobility needs.

A new scoreboard with LED display would be used for player headshots, statistics, replays and pre-produced videos. The display would be approximately 35 feet by 20 feet and would face southwest. A static 9-inning scoring line, approximate 35-foot by 9-foot score display would mount below the scoreboard and can be used independently of the primary video display. Views of these displays from the south would be largely screened by the dense trees south of the project site. A summary of proposed field improvements under the project are listed below in Table 1-1.

TABLE 1-1. SUMMARY OF PROPOSED CAL SOFTBALL FIELD IMPROVEMENTS

Project Element	Existing Condition	Proposed Project
Field	• Dimensions do not meet NCAA standards – outfield fences run 187 feet down the right and left baselines, 197 feet to centerfield.	• The field would conform to minimum dimensions of an NCAA-compliant softball facility – 190 feet down the lines and 220 feet to centerfield.
Fencing	• 380 linear feet of backstop fencing. • 206 linear feet of perimeter fencing; no fencing separating Cal Softball Field from Witter Field to the west. • 400 linear feet of internal fencing. • Outfield fencing is 8 feet high. • Safety net along left-field fence to protect Centennial Drive is 55-foot high.	• 425 linear feet of backstop fencing due to expanded field. • 600 linear feet of perimeter fencing; including replacing some fencing on the south side of the site and providing new fencing separating Cal Softball Field from Witter Field to the west. • 80 linear feet of internal fencing for bull pens. • Outfield fencing would be 8 feet high.

TABLE 1-1. SUMMARY OF PROPOSED CAL SOFTBALL FIELD IMPROVEMENTS

Project Element	Existing Condition	Proposed Project
		• Transparent safety net along left-field fence to protect Centennial Drive would be 55-foot high.
Dugouts	• Two dugouts (metal structure with asbestos roof), 35 feet wide and 12.5 feet deep.	• Dugouts would be 73 feet wide and 12 feet deep and would hold 30 people with equipment (bats, helmets). • Bathrooms would be accessible directly off the dugouts (both home and visitors), with a mudroom between the dugout and the locker room.
Seating	• 350 permanent seats facing north and east; up to 990 temporary bleachers, facing south, for a total of 1,340 seats.	• 1,511 permanent seats, facing north and east. • Net increase of 171 seats with the project.
Team rooms (home)	• No home team room. • Lockers are located in California Memorial Stadium.	• Home team room (approximately 575 square feet) would be directly adjacent to the dugout mudroom.
Team rooms (visiting)	• No visiting team room.	• Visiting team locker room, adjacent to visitor dugout.
Restrooms	• Structure with separate restrooms for men and women.	• Restrooms located in each team locker room, adjacent to each dugout. • Public restrooms on the concourse behind the press box. • Restrooms also in two unisex umpire locker rooms. • One gender-neutral bathroom in a central area.
Batting cages	• Three batting cage chutes (3,200 square feet) are located in a covered metal structure.	• Semi-exterior space with four batting cage chutes and space for a pitching area under concourse accessible from interior hallway serving locker rooms (approximately 4,060 square feet).
Concourse	• No concourse.	• Elevated concourse where fans can walk down to seats.
Press box	• Press box is at the southern edge of the field. • No structure.	• Slender press box structure of approximately 1,350 square feet located on the southwest corner of the concourse.
Lighting	• 4, 50-foot light towers supporting 1,000-watt light fixtures/6–8 halogen fixtures. • Existing lights reach a portion of the playing field and measure around 20-30 foot-candles. • Lights are scheduled through a local, antiquated lighting control system located in a box behind the left field wall.	• 6, 85-foot poles with TV-ready game lighting fixtures at the top to illuminate playing field. • Horizontal light levels: 70 foot-candles for the outfield and 100 foot-candles for the infield. • Lighting levels would be dimmer for events other than intercollegiate games, such as intramural competitions.
PA system[a]	• Six portable speakers affixed to poles wired to a head unit and controlled by a mixing board. • Speakers affixed to poles along the perimeter of the softball field and oriented towards fan seating areas: southward from the northern perimeter of the field and	• Speakers mounted on exterior of building and poles for field use during games and practice. • Speakers mounted in batting cage for use during practice.

TABLE 1-1. SUMMARY OF PROPOSED CAL SOFTBALL FIELD IMPROVEMENTS

Project Element	Existing Condition	Proposed Project
	northward from the southern perimeter of the field.	
Power and data	• No power or data to team rooms or press box. • Requires use of diesel backup generators.	• Power and data to team rooms, press box, dugouts, batting cages, scoreboard, and various concourse locations. • No diesel backup generators required.

Notes: NCAA = National Collegiate Athletic Association Division I; PA = public address.

a. Speakers would be oriented perpendicularly (toward the west) away from the closest residences.

Softball Program Description. The use of the proposed project would be similar to the use of the existing softball field. During the fall, the field would be primarily used for practices, intramural play, campus/clinics, and other occasional daytime competitions. These fall competitions occur on weekend afternoons and are scheduled to not coincide with football games at nearby California Memorial Stadium. During the spring semester, the facility would be used somewhat more frequently than under existing conditions (15 to 20 games), with up to 21 regular season softball games and up to 4 post-season events, as further described below, as well as practices and intramurals when not scheduled for IA use. All regular season softball games could be televised, as under existing conditions. Of these 21 regular season events, 8-10 would be against Pac-12 competition played during 4-5 weekend series with two games per weekend. It is possible, though very unlikely, that all 10 of those Pac-12 games could be played in the evening. Additionally, the schedule typically includes 4-6 out-of-conference games, and it is possible, though very unlikely, that all of these could be played in the evening. The facility may also host an intercollegiate tournament in February, which could include up to 5 night games in a worst-case scenario. If the team qualifies for the post-season, it would need to be one of the top 16 teams in the country in order to host a 4-team, double-elimination tournament in which up to 4 night games could occur.

Table 1-2 compares the existing program schedule to the proposed program schedule, based on information provided by UCB IA. The primary changes include an increase in maximum seating "sell-out" capacity from approximately 1,340 to 1,511; potential to host televised night games, depending on network scheduling; and the ability to host up to two special events (regionals and super-regionals). The project assumes that average attendance at games would double, from a historic average of 300 to 600 attendees at Fall competitions and from 500 to 1,000 at Spring competitions. Although the ability to host competitive NCAA night games would be new, the facility hours of use (until 10:00 p.m.) would not change.

TABLE 1-2. PROPOSED UC BERKELEY SOFTBALL FIELD PROGRAM SCHEDULE

ID	Activities	Expected Number of Uses/Events		Days of Week	Times of Day
		Existing	Proposed		
September through December (Fall Semester – Practice Season)					
1	Fall attendance at home competitions (4–5 total games on weekends)	300 average attendees; 60 athletes; 32 coaches/support staff	600 average attendees; 60 athletes; 32 coaches/support staff	Saturday and Sunday	12:00 p.m.–5:00 p.m.
2	Softball team practices	35 people	35 users	Monday–Friday	11:00 a.m.–2:00 p.m.

TABLE 1-2. PROPOSED UC BERKELEY SOFTBALL FIELD PROGRAM SCHEDULE

ID	Activities	Expected Number of Uses/Events		Days of Week	Times of Day
		Existing	Proposed		
3	Intramural sports	40 users	40 users	Monday–Sunday	5:00 p.m.–10:00 p.m.
4	Camps and clinics	100 users	100 users	Saturday and Sunday	9:00 a.m.–3:00 p.m.
5	Special events/rentals	50 attendees	50 attendees	Varies	Varies
6	Maintenance	4 users	4 users	Monday–Friday	8:00 a.m.–11:00 a.m.
January through May (Spring Semester – Competitive Season)					
7	Spring attendance at home competitions	500 average spectators; 60 athletes; 32 coaches/support staff	1000 average spectators; 60 athletes; 32 coaches/support staff		
8	Spring home competitions	15–20 games on weekdays and weekends; no night games)	Up to 21 games, including up to 21 night games	Tuesday, Thursday–Sunday	Weekdays: 1:00 p.m.–10:00 p.m. Weekends: 12:00 p.m.–10:00 p.m.
9	Post-season play	Infrequent, depends on performance	Infrequent, depends on performance; up to 4 games (including up to 4 night games)	3-day playoff weekend events	Weekdays: 1:00 p.m.–10:00 p.m. Weekends: 12:00 p.m.–10:00 p.m.
10	Softball team practices	35 users	35 users	Monday–Friday	11:00 a.m.–2:00 p.m.
11	Intramural sports	20 users	40 users	Monday–Sunday	5:00 p.m.–10:00 p.m.
12	Maintenance	4 users	4 users	Monday–Friday	8:00 a.m.–11:00 a.m.
June through August (Summer Session – Camp Season)					
13	Youth camps	250-600 users	250-600 users	Monday–Friday	8:00 a.m.–5:00 p.m.
14	Camps and clinics	100 users	100 users	Saturday and Sunday	9:00 a.m.–3:00 p.m.
15	Special events/rentals	50 users	50 users	Varies	Varies
16	Maintenance	4 users	4 users	Monday–Friday	8:00 a.m.–11:00 a.m.

Transportation, Access and Parking. Site access to the new facility would be similar to the existing field as its location and orientation would not change. Primary vehicle access to the field would be from Centennial Drive. Additionally, the project would include two new passenger loading/unloading zones along Centennial Drive (see NOP Attachment A, Figure 3), which would have rolled curbs to accommodate emergency vehicles:

- Northwest Passenger Loading/Unloading Zone - The new pullout area at the main entrance gate on the northwest corner of the site would be 65 feet in length along the project frontage on Centennial Drive, which could accommodate up to 3 vehicles. This pullout area is closest to the Americans with Disabilities Act (ADA) path on the west side of the site.
- Northeast Passenger Loading/Unloading Zone – The new roundabout on the northeast corner of the site near the Strawberry Canyon pool entrance can accommodate up to 6 vehicles for passenger loading and unloading.

The project would remove approximately 85 surface parking spaces from Witter Lot. There would be 25 perpendicular parking spaces remaining with a 20-foot-wide two-way drive aisle and the roundabout area, previously described. In addition to these remaining spaces, the lot would accommodate one ADA-compliant parking space and one ADA-compliant van parking space. Additionally, in coordination with the UC Berkeley Parking & Transportation, IA will develop a game day transportation and parking demand management (TDM) plan for the project.

Landscaping. The proposed project includes new landscaping (see NOP Attachment A, Figure 3), primarily focused on replacement of the streetscape and creation of new entry plazas along Centennial Drive. Due to construction and the increased footprint of the new facility, up to 23 trees would be removed on the northern portion of the project site to accommodate the new facility. The proposed project would retain approximately 56 existing trees and would include planting 8 new trees as part of the overall landscaping plan. No trees would be removed on the southern portion of the project site.

Sustainable Design. The proposed project would be required to meet energy efficiency and green facility standards in the systemwide UC Sustainable Practices Policy, UC Berkeley Energy Use Policy, and the UC Berkeley Campus Design Standards. The project would be designed and constructed, at minimum, to the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) Building Design + Construction (BD+C) Silver Certification. "Green" facility measures in the proposed structure would include low-emitting adhesives, sealants, composite wood, agrifiber products, paints, and coatings; Forest Stewardship Council-certified wood; and low-flow plumbing fixtures. The project would implement a high thermal performance envelope, lighting-power density reduction, variable-frequency drives for all motors, heat recovery systems, and high-efficiency mechanical equipment. In general, lighting would be controlled by a networkable lighting control system with a built-in time clock and local overrides.

Construction. Demolition activities and construction of the project are anticipated to commence in summer or fall 2023 and last for approximately 13 months. Project construction would be consistent with the hours of operation allowed by the City of Berkeley noise ordinance, generally Monday–Friday 7:00 a.m. to 7:00 p.m., with limited weekend hours if needed. To reduce emissions from construction equipment, UC Berkeley shall use equipment that meets the United States Environmental Protection Agency Tier 4 Final emissions standards or higher for off-road diesel-powered construction equipment with more than 50 horsepower, unless it can be demonstrated to UC Berkeley that such equipment is not commercially available.[2]

[2] "Commercially available" means the availability of Tier 4 Final engines similar to the availability for other large-scale construction projects in the city occurring at the same time and taking into consideration factors such as (i) potential significant delays to critical-path timing of construction and (ii) geographic proximity to the project site of Tier 4 Final equipment.

8. Surrounding land uses and setting (Briefly describe the project's surroundings):

Land Uses:

- North: Undeveloped hillside (UC Berkeley; Hill Campus East)
- East: Strawberry Canyon Pool and the Haas Clubhouse (UC Berkeley; Hill Campus West)
- West: Witter Rugby Field and California Memorial Stadium (UC Berkeley; Hill Campus West)
- Southwest: Residences, part of the Panoramic Hill residential neighborhood (City of Berkeley)
- South: Wooded area, including a recreational trail (UC Berkeley; Hill Campus West)

9. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

No other permits or authorizations are required from other agencies or individuals that require such agencies or individuals to comply with the California Environmental Quality Act (CEQA).

10. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

With the release of the NOP for the proposed project, UC Berkeley will notify applicable tribes informing them of the proposed project, providing a project description and background, and requesting consultation pursuant to AB 52. AB 52 establishes a formal consultation process for California tribes regarding tribal cultural resources. The consultation process must be completed before a CEQA document can be certified. Under AB 52, lead agencies are required to "begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." UC Berkeley will notify the following tribes, as described above: Amah Mutsun Tribal Band of Mission San Juan Bautista; Costanoan Rumsen Carmel Tribe, Guidiville Indian Rancheria, Indian Canyon Mutsun Band of Costanoan, Muwekma Ohlone Indian Tribe of the SF Bay Area, North Valley Yokuts Tribe, The Ohlone Indian Tribe, and The Confederated Villages of Lisjan.

2. Initial Study Checklist

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 checklist on the following pages.

☒ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☒ Biological Resources	☒ Cultural Resources (Paleontological resources will be analyzed in this section.)	☐ Energy
☐ Geology and Soils	☐ Greenhouse Gas Emissions	☐ Hazards and Hazardous Materials
☐ Hydrology and Water Quality	☐ Land Use and Planning	☐ Mineral Resources
☒ Noise	☐ Population and Housing	☐ Public Services
☐ Recreation	☒ Transportation	☒ Tribal Cultural Resources
☐ Utilities and Service Systems	☒ Wildfire (Wildfire and emergency evacuation impacts associated with hazards and hazardous materials will be analyzed in this section.)	☒ Mandatory Findings of Significance

Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation:

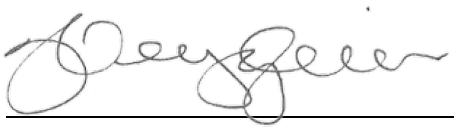
☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ 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 project proponent. 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 (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL 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 ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Wendy Hillis, UC Berkeley Campus Architect,
Assistant Vice Chancellor

November 2, 2022

Date

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 will 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 off-site as well as on-site, 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 Environmental Impact Report (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 measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, 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 less than significance

2.1 AESTHETICS

Implementation of the project would result in construction and operational activities that could result in potentially significant aesthetic impacts related to scenic vistas, scenic resources, scenic quality, and light and glare. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed in the pending EIR.

2.2 AGRICULTURE AND FORESTRY RESOURCES

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
II.	**AGRICULTURE AND FORESTRY 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 non-agricultural use?	☐	☐	☐	☒
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
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 Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d)	Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
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?	☐	☐	☐	☒

2.2.1 ENVIRONMENTAL SETTING

The California Department of Conservation (DOC) Farmland Mapping and Monitoring Program (FMMP) prepares maps and statistical data for analyzing land use impacts on California's agricultural resources. The FMMP categorizes agricultural production potential based on a combination of physical and chemical characteristics of the soil and climate that determine the degree of suitability of the land for crop production. The project site is designated as Urban and Built-Up Land by the FMMP (DOC 2016). There are no lands designated or zoned for agricultural use on or adjacent to the project site.

The California Land Conservation Act (Williamson Act) recognizes the importance of agricultural land and includes provisions to protect and ensure the orderly conservation of agricultural land. However, the project site and surrounding lands are not enrolled in a Williamson Act Contract (Alameda County Assessor's Office 2022).

According to the U.S. Department of Agriculture (USDA) Forest Inventory and Analysis (USDA 2007a, 2007b), no forest or timberlands are present on or adjacent to the project site.

2.2.2 DISCUSSION

a) Would the project 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 non-agricultural use? (No Impact)

The project site is not located in an area designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance by the FMMP. Therefore, the proposed project would not convert farmland to a non-agricultural use, and there would be no impact.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract? (No Impact)

The project site and wooded slope to the south of the site are zoned high density residential (R-5) (City of Berkeley 1999). No land zoned for agricultural use or enrolled in a Williamson Act contract is located on or near the project site; therefore, the project would have no impact on agricultural zoning or Williamson Act contracts.

c) Would the project 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 Production (as defined by Government Code section 51104(g))? (No Impact)

and

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use? (No Impact)

While the slope to the south of the project site is wooded, this land is not designated for forest land uses. As there is no forest land or timberland located on or near the project site, the proposed project would not conflict with land zoned as forest land or timberland or result in the conversion of forest land to non-forest use, and no impact would occur.

e) Would the project 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? (No Impact)

No farmland, agricultural resources, or forest land resources exist within or adjacent to the project site. Therefore, the proposed project would not involve changes in the existing environment that would result in the conversion of farmland to non-agricultural use or conversion of forest land to non-forest use. No impact would occur.

Consequently, there would be no impacts regarding agriculture and forestry resources and this issue will not be discussed in the pending EIR.

2.3 AIR QUALITY

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
III.	**AIR QUALITY – Where available, the significance criteria established by the applicable air quality management district 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?	☐	☐	☒	☐
b)	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c)	Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d)	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

2.3.1 ENVIRONMENTAL SETTING

The project is located in the San Francisco Bay Area Air Basin (SFBAAB), which is under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). In June 2010, the BAAQMD adopted thresholds of significance to assist lead agencies in the evaluation and mitigation of air quality impacts under CEQA. The BAAQMD CEQA Air Quality Guidelines were re-released in May 2017 and include the same thresholds as in the 2010 Guidelines for criteria air pollutants, toxic air contaminants (TACs), and greenhouse gases (GHGs) (BAAQMD 2017a). The Guidelines also address the December 2015 Supreme Court's opinion (*California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369). The BAAQMD has initiated an update to the CEQA Air Quality Guidelines to reflect new or revised requirements in the State CEQA Guidelines, recent court decisions, improved analytical methodologies, and new mitigation strategies. The BAAQMD intends to review current thresholds of significance criteria and establish new significance criteria where needed.[3] The current BAAQMD air quality significance thresholds are summarized in Table 2.3-1.

In general, the BAAQMD significance thresholds for reactive organic gases (ROG), oxides of nitrogen (NO_x), particulate matter with an aerodynamic resistance diameter of 10 micrometers or less (PM_{10}), particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less ($PM_{2.5}$), and carbon monoxide (CO) address the first two air quality significance criteria incorporated in the Initial Study checklist questions above. According to the BAAQMD, these thresholds are intended to maintain ambient air quality concentrations of these criteria air pollutants below state and federal standards and to prevent a cumulatively considerable contribution to regional nonattainment with ambient air quality standards. The TAC thresholds (cancer and noncancer risks) and local CO thresholds address the third significance criterion incorporated in the Initial Study checklist questions, and the BAAQMD odors threshold addresses the fourth.

[3] Notably, the BAAQMD adopted updated thresholds of significance for GHGs on April 20, 2022.

TABLE 2.3-1. THRESHOLDS OF SIGNIFICANCE

Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tons/year)
ROG	54	54	10
NO_x	54	54	10
PM_{10}	82 (exhaust)	82	15
$PM_{2.5}$	54 (exhaust)	54	10
$PM_{10}/PM_{2.5}$ (fugitive dust)	Best Management Practices	None	
Local CO	None	9.0 ppm (8-hour average, 20.0 ppm (1-hour average)	
Risks and Hazards (Individual Project)	Compliance with Qualified Community Risk Reduction Plan or Increased cancer risk of >10.0 in a million Increased noncancer risk of >1.0 Hazard Index (Chronic or Acute) Ambient $PM_{2.5}$ increase >0.3 µg/m^3 annual average Zone of Influence: 1,000-foot radius from property line of source or receptor		
Risks and Hazards (Cumulative)	Compliance with Qualified Community Risk Reduction Plan or Cancer risk of >100 in a million (from all local sources) Noncancer risk of >10.0 Hazard Index (chronic, from all local sources) Ambient $PM_{2.5}$ >0.8 µg/m^3 annual average (from all local sources) Zone of Influence: 1,000-foot radius from property line of source or receptor		
Accidental Release of Acutely Hazardous Air Pollutants	None	Storage or use of acutely hazardous material located near receptors or new receptors located near stored or used acutely hazardous materials considered significant	
Odors	None	Five confirmed complaints to BAAQMD per year averaged over 3 years	

Source: BAAQMD 2017a.

Notes: lbs/day = pounds per day; tons/year = tons per year; ppm = parts per million; µg/m^3 = micrograms per cubic meter; ROG = reactive organic gases; NO_x = oxides of nitrogen; PM_{10} = particulate matter with an aerodynamic resistance diameter of 10 micrometers or less; $PM_{2.5}$ = fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less; CO = carbon monoxide

2.3.2 DISCUSSION

a) Would the project conflict with or obstruct implementation of the applicable air quality plan? (Less than Significant)

An area is designated as "in attainment" when it is in compliance with the federal and/or state standards. These standards are set by the U.S. Environmental Protection Agency (EPA) or California Air Resources Board (CARB) for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or public welfare with a margin of safety. The SFBAAB is designated non-attainment for the federal 8-hour O_3 and 24-hour $PM_{2.5}$ standards. The area is in attainment or unclassified for all other federal standards. The area is designated non-attainment for state standards for 1-hour and 8-hour O_3, 24-hour PM_{10}, annual PM_{10}, and annual $PM_{2.5}$.

On April 19, 2017, the BAAQMD adopted the *Spare the Air: Cool the Climate Final 2017 Clean Air Plan* (BAAQMD 2017b). The 2017 Clean Air Plan provides a regional strategy to protect public health and protect the climate. To protect public health, the 2017 Clean Air Plan includes all feasible measures to reduce emissions of O_3 precursors (ROG and NO_x) and reduce O_3 transport to neighboring air basins. In addition, the 2017 Clean Air Plan builds upon the BAAQMD efforts to reduce fine particulate matter (PM) and TACs. To protect the climate, the plan defines a vision for transitioning the region to a post-carbon economy needed to achieve ambitious GHG reduction targets for 2030 and 2050, and provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve those GHG reduction targets.

The BAAQMD Guidelines identify a three-step methodology for determining a project's consistency with the current Clean Air Plan. If the responses to these three questions can be concluded in the affirmative and those conclusions are supported by substantial evidence, then the BAAQMD considers the project to be consistent with air quality plans prepared for the Bay Area. The three questions in the three-step methodology are as follows and are responded to below:

- "Does the project support the goals of the Air Quality Plan"?
- "Does the project include applicable control measures from the Clean Air Plan?"
- "Does the project disrupt or hinder implementation of any control measures from the Clean Air Plan?"

The BAAQMD-recommended measure for determining project support for the 2017 Air Quality Plan goals is consistency with BAAQMD thresholds of significance. If a project would not result in significant and unavoidable air quality impacts, after the application of all feasible mitigation measures, the project would be consistent with the goals of the 2017 Clean Air Plan. As indicated in the following discussion regarding air quality impact question (b) below, the project would result in less-than-significant construction and operational emissions and would not result in long-term adverse air quality impacts. Therefore, the project would be considered to support the primary goals of the 2017 Clean Air Plan and is consistent with the current Clean Air Plan.

The 2017 Clean Air Plan contains 85 control measures aimed at reducing air pollution in the Bay Area. Projects that incorporate all feasible air quality plan control measures are considered consistent with the Clean Air Plan. The control strategies of the 2017 Clean Air Plan include measures in the categories of stationary sources, the transportation sector, the buildings sector, the energy sector, the agriculture sector, natural and working lands, the waste sector, the water sector, and super-GHG pollutant measures. Depending on the control measure, the tools for implementation include leveraging the BAAQMD rules and permitting authority, regional coordination and funding, working with local governments to facilitate best policies in building codes, outreach and education, and advocacy strategies. As described in Section 1, Item 7, the proposed project would be required to meet the energy efficiency and green facility standards of the University of California Sustainable Practices Policy, the UC Berkeley Energy Use Policy, and the UC Berkeley Campus Design Standards. At a minimum, the project would be designed and constructed to the U.S. Green Building Council's LEED BD+C Silver Certification. "Green" facility measures in the proposed structure would include low-emitting adhesives, sealants, composite wood, agrifiber products, paints, and coatings; Forest Stewardship Council-certified wood; and low-flow plumbing fixtures. The project would implement a high thermal performance envelope, lighting-power density reduction, variable-frequency drives for all motors, heat recovery systems, and high-efficiency mechanical equipment. In general, lighting would be controlled by a networkable lighting control system with a built-in time clock and local overrides. Furthermore, since the proposed project would comply with all applicable BAAQMD rules and would meet state and federal standards and/or local building codes, the project would not conflict with any applicable control measures from the 2017 Clean Air Plan.

Examples of how a project may cause the disruption or delay of control measures include a project that precludes an extension of a transit line or bike path or proposes excessive parking beyond parking requirements. The project would not create any barriers or impediments to planned or future improvements to transit or bicycle facilities in the area, nor would it include any new parking. Therefore, the project would not hinder implementation of 2017 Clean Air Plan control measures.

In summary, the responses to all three of the questions with regard to Clean Air Plan consistency are affirmative and the project would not conflict with or obstruct implementation of the 2017 Clean Air Plan and therefore the impact is less than significant.

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? (Less than Significant)

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from construction and operation of the proposed project (see Appendix A-1). CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant and GHG emissions associated with the construction and operational activities from a variety of land use projects, such as educational, residential, recreational, commercial, and industrial facilities. CalEEMod input parameters, including the proposed project land use type and size and construction schedule were based on information provided by UC Berkeley, or default model assumptions if project specifics were unavailable.

Additionally, as part of the proposed project, UC Berkeley would implement CBPs listed here, where relevant:

- **CBP AIR-1:** UC Berkeley will continue to implement the same or equivalent transportation programs as currently exist, that strive to reduce the use of single-occupant and/or GHG emitting (internal combustion engine) vehicles by students, staff, faculty, and visitors to the UC Berkeley campus.
- **CBP AIR-2:** UC Berkeley will continue to comply with the current BAAQMD basic control measures for fugitive dust control. The requirement to comply with the basic control measures will be identified in construction bids. The BAAQMD's current basic control measures include:
  - Water all active construction areas at least twice daily, or as often as needed to control dust emissions. Watering should be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour. Reclaimed water will be used whenever possible.
  - Pave, apply water twice daily or as often as necessary to control dust, or apply (nontoxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites.
  - Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard (i.e., the minimum required space between the top of the load and the top of the trailer).
  - Sweep daily (with water sweepers using reclaimed water if possible) or as often as needed all paved access roads, parking areas and staging areas at the construction site to control dust.
  - Sweep public streets daily (with water sweepers using reclaimed water if possible) in the vicinity of the project site, or as often as needed, to keep streets free of visible soil material.
  - Hydroseed or apply nontoxic soil stabilizers to inactive construction areas.
  - Enclose, cover, water twice daily, or apply nontoxic soil binders to exposed stockpiles (dirt, sand, etc.
  - Limit vehicle traffic speeds on unpaved roads to 15 miles per hour.
  - Replant vegetation in disturbed areas as quickly as possible.

- **CBP AIR-3:** UC Berkeley will continue to implement the following control measures to reduce emissions of diesel particulate matter and ozone precursors from construction equipment exhaust:
  - Equipment will be properly serviced and maintained in accordance with the manufacturer's recommendations.
  - Construction contractors will also ensure that all nonessential idling of construction equipment is restricted to five minutes or less, in compliance with Section 2449 of the California Code of Regulations, Title 13, Article 4.8, Chapter 9.

Construction

Overall, construction of the proposed project is anticipated to occur over approximately 10 months starting in the summer or fall of 2023. Sources of emissions would include off-road construction equipment exhaust, on-road vehicles exhaust and entrained road dust, fugitive dust associated with site preparation and grading activities, paving activities, and architectural coatings. Detailed assumptions associated with project construction are included in Appendix A-1 to this Initial Study.

Average daily emissions were computed by dividing the total construction emissions by the number of active construction days, which were then compared to the BAAQMD construction thresholds of significance. Table 2.3-2 shows average daily construction emissions of O_3 precursors (ROG and NO_x), PM_{10} exhaust, and $PM_{2.5}$ exhaust during project construction.[4]

TABLE 2.3-2. AVERAGE DAILY UNMITIGATED CONSTRUCTION EMISSIONS

Year	ROG	NO_x	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
	Pounds per Day			
2023 – 2024 Construction	3.82	5.04	0.16	0.16
BAAQMD Construction Thresholds	*54*	*54*	*82*	*54*
Exceed Threshold?	**No**	**No**	**No**	**No**

Source: Appendix A-1.
Notes: ROG = reactive organic gases; NOx = oxides of nitrogen; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter
The values shown are average daily emissions based on total overall tons of construction emissions, converted to pounds, and divided by 217 active workdays. Emissions are based on the "mitigated" CalEEMod output; however, incorporation of Tier 4 equipment is part of the project and is not considered mitigation.

As shown in Table 2.3-2, construction of the proposed project, including implementation of the construction CBPs above, would not exceed BAAQMD significance thresholds. Impacts associated with criteria air pollutant emissions during construction would be less than significant.

Operations

Operation of the project would generate criteria pollutant (including ROG, NO_x, PM_{10}, and $PM_{2.5}$) emissions from mobile sources (vehicular traffic), and area sources (consumer products, architectural coatings, and landscaping equipment). To assess the worst-case scenario for criteria air pollutants, CalEEMod was used to estimate daily emissions associated with the average event day (net increase of 316 daily vehicle trips). This net increase in vehicle trips would only occur during the 25 game events, as presented in Section 1,

[4] Fuel combustion during construction and operations would also result in the generation of sulfur dioxide (SO_2) and CO. These values are included in Appendix A-1. However, since the SFBAAB is in attainment of these pollutants, the BAAQMD has not established a quantitative mass-significance threshold for comparison and are not included in the project-generated emissions tables in this document. Notably, the BAAQMD does have screening criteria for operational localized CO, which are discussed in more detail under air quality impact question (c).

Item 7 of this Initial Study. Annual average emissions, which factored in trip generation for both the typical weekday use and up to 30 average events, were modeled to provide a conservative estimate of operational criteria air pollutant emissions for the project. Maximum day and annual average emissions associated with the project are summarized in Tables 2.3-3 and 2.3-4 and compared to the respective BAAQMD operational thresholds. Given that existing information about most source emissions for the existing softball field were not readily available, Tables 2.3-3 and 2.3-4 do not reflect the net increase with the project in most instances, except for mobile source emissions. Appendix A-1 provides the modeling results reflected in Tables 2.3-3 and 2.3-4.

TABLE 2.3-3. MAXIMUM DAILY UNMITIGATED OPERATIONAL CRITERIA AIR POLLUTANT EMISSIONS

Source	ROG	NO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day[1]			
Area	1.47	<0.01	<0.01	<0.01
Energy	0.00	0.00	0.00	0.00
Mobile	0.77	0.88	1.43	0.39
Total	**2.24**	**0.88**	**1.43**	**0.39**
BAAQMD Operational Thresholds	*54*	*54*	*82*	*54*
Exceed Threshold?	**No**	**No**	**No**	**No**

Source: Appendix A-1.
Notes: ROG = reactive organic gases; NO_x = oxides of nitrogen; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; BAAQMD = Bay Area Air Quality Management District
The values shown are the maximum summer or winter daily emissions results from CalEEMod.

<0.01 = value is less than 0.01 pounds per day.

TABLE 2.3-4. ANNUAL AVERAGE UNMITIGATED OPERATIONAL CRITERIA AIR POLLUTANT EMISSIONS

Source	ROG	NO_x	PM_{10}	$PM_{2.5}$
	Tons per Year[1]			
Area	0.27	<0.01	0.00	0.00
Energy	0.00	0.00	0.00	0.00
Mobile	0.01	0.01	0.02	0.01
Total	**0.28**	**0.01**	**0.02**	**0.01**
BAAQMD Operational Thresholds	*10*	*10*	*15*	*10*
Exceed Threshold?	**No**	**No**	**No**	**No**

Source: Appendix A-1.
Notes: ROG = reactive organic gases; NO_x = oxides of nitrogen; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; BAAQMD = Bay Area Air Quality Management District

<0.01 = value is less than 0.01 tons per year.

As indicated in Tables 2.3-3 and 2.3-4, the increase in operational emissions of ROG, NO_x, PM_{10}, and $PM_{2.5}$ resulting from development of the proposed project would be minimal and would not exceed the daily or annual BAAQMD significance thresholds. Therefore, project impacts associated with regional operational emissions of criteria air pollutants would be less than significant.

c) Would the project expose sensitive receptors to substantial pollutant concentrations? (Less than Significant)

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Children, pregnant women, older adults, and people with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses where sensitive-receptor population groups are likely to be located include hospitals, medical clinics, schools, playgrounds,

childcare centers, residences, and retirement homes (BAAQMD 2017a). The nearest existing residences are directly south of the project site.

Toxic Air Contaminants

TACs are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. Health effects from carcinogenic air toxics are usually described in terms of cancer risk. BAAQMD recommends an incremental cancer risk threshold of 10 in 1 million. "Incremental cancer risk" is the net increased likelihood that a person continuously exposed to concentrations of TACs resulting from a project over a specified exposure period will contract cancer based on the use of standard California Office of Environmental Health Hazard Assessment risk-assessment methodology (OEHHA 2015). In addition, some TACs have non-carcinogenic effects. BAAQMD recommends a Hazard Index of 1 or more for acute (short-term) and chronic (long-term) non-carcinogenic effects.[5]

The TAC that would potentially be emitted during construction activities associated with development of the project would be diesel particulate matter (DPM). Project construction activities would produce DPM (with $PM_{2.5}$ exhaust modeled as surrogate) and $PM_{2.5}$ fugitive dust emissions. These emissions could result in elevated concentrations of DPM and $PM_{2.5}$ at nearby receptors, which could lead to an increase in the risk of cancer or other health impacts. Consequently, a health risk assessment (HRA) was performed to determine the extent of increased cancer risks and hazard indices at proximate sensitive receptors. The detailed HRA is included as Appendix A-2, with results summarized below.

The maximally exposed receptor would be the nearest off-site existing residence to the south of the project boundary, along Canyon Road. Table 2.3-5 shows the potential health risk at the maximally exposed individual residence (MEIR) as a result of project construction.

TABLE 2.3-5. CONSTRUCTION-RELATED HEALTH RISK RESULTS

Receptor	Cancer Risk (persons per million)	Chronic Impact	$PM_{2.5}$ Concentration ($\mu g/m^3$)
Maximally Exposed Individual Resident[1,2]	1.05	0.0019	0.012
BAAQMD Operational Thresholds	*10*	*1.0*	*0.3*
Exceed Threshold?	**No**	**No**	**No**

Source: Appendix A-2.

Notes: $PM_{2.5}$ = fine particulate matter; $\mu g/m^3$ = micrograms per cubic meter; MEIR = maximally exposed individual resident; BAAQMD = Bay Area Air Quality Management District; AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; HARP2 = Hotspots Analysis and Reporting Program Version 2; UTM = Universal Transverse Mercator.

Diesel exhaust exposure at proximate receptors was modeled with AERMOD, and then input into HARP2 to generate health risk estimates. Construction diesel particulate exposure was assumed to begin in the third trimester of pregnancy for a duration of 0.6 years of active construction. The total $PM_{2.5}$ concentrations include both exhaust and fugitive dust.

1. The MEIR for health risk impacts is directly south of the project at UTM coordinates 566170.46 meters Easting (m E)/ 4191774.22 meters Northing (m N).
2. Risk values are based on the "mitigated" CalEEMod emissions output; however, incorporation of Tier 4 equipment and fugitive dust controls are part of the project and are not considered mitigation.

As shown in Table 2.3-5, the incremental cancer risk at the MEIR of 1 in 1 million (assuming exposure starts in third trimester of pregnancy) from project construction would not exceed the BAAQMD threshold of 10 in 1 million. The chronic hazard index would be 0.0019 at the MEIR, which would be below the BAAQMD threshold of 1.0. The maximum annual $PM_{2.5}$ concentration would be 0.012 micrograms per cubic meter

[5] Non-cancer adverse health risks are measured against a hazard index, which is defined as the ratio of the predicted incremental exposure concentrations of the various non-carcinogens from the proposed project to published reference exposure levels that can cause adverse health effects.

at the MEIR, which would be below the BAAQMD threshold of 0.3 micrograms per cubic meter. Based on the preceding considerations, potential health risk impacts associated with proposed project construction would be less than significant.

Regarding operations, since the proposed project would consist of softball field improvements, the project would not result in new sources of TACs that could expose sensitive receptors to substantial concentrations. Operational health risk impacts with the proposed project would be less than significant.

Health Impacts of Criteria Air Pollutants

Construction of the proposed project would generate minimal criteria air pollutant emissions and would not exceed the BAAQMD mass-emission thresholds, as indicated in air quality impact question (b) above. The SFBAAB is designated as nonattainment for O_3 for the NAAQS and CAAQS. Thus, existing O_3 levels in the SFBAAB are at unhealthy levels during certain periods. The health effects associated with O_3 generally result in reduced lung function. Because the proposed project would not involve activities that would result in O_3 precursor emissions (i.e., ROG or NO_X) that would exceed the BAAQMD thresholds, as shown in Tables 2.3-2 through 2.3-4, the project is not anticipated to substantially contribute to regional O_3 concentrations and their associated health impacts during construction or operations.

In addition to O_3, NO_x emissions contribute to potential exceedances of the NAAQS and CAAQS for NO_2.[6] Exposure to NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections. As shown in Tables 2.3-2 through 2.3-4, neither construction nor operation of the project would exceed the BAAQMD threshold for NO_x. Thus, the proposed project is not expected to result in exceedances of the NO_2 standards or contribute to associated health effects.

CO tends to be a localized impact associated with congested intersections. In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, thereby reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions. According to the BAAQMD thresholds, a project would result in a less-than-significant impact related to localized CO concentrations if the following screening criteria are met:

1. The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, regional transportation plan, and local congestion management agency plans.
2. The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.
3. The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).

The proposed project would generate minimal traffic and would comply with the BAAQMD screening criteria. Accordingly, project-related traffic would not exceed CO standards and therefore, no further analysis was conducted for CO impacts. This CO emissions impact would be considered less than significant on a project-level and cumulative basis. Thus, the project's CO emissions would not contribute to the health effects associated with this pollutant.

[6] NO_2 is a constituent of NO_x.

Particulate matter contains microscopic solids or liquid droplets that are so small that they can be transmitted into the lungs and cause serious health problems. Health effects associated with PM_{10} include premature death and hospitalization, primarily for worsening of respiratory disease. As shown in Tables 2.3-2 through 2.3-4, the proposed project would not generate emissions of PM_{10} or $PM_{2.5}$ that would exceed the BAAQMD's thresholds. As such, the proposed project would not contribute to exceedances of the NAAQS and CAAQS for particulate matter or obstruct the SFBAAB from coming into attainment for these pollutants. Accordingly, the proposed project's PM_{10} and $PM_{2.5}$ emissions are not expected to cause an increase in related health effects for this pollutant.

In summary, the proposed project would not cause a potentially significant contribution to concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health impacts associated with those pollutants. Therefore, impacts would be less than significant.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? (Less than Significant)

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints. BAAQMD has identified typical sources of odor in the CEQA Air Quality Guidelines, a few examples of which include manufacturing plants, rendering plants, coffee roasters, wastewater treatment plants, sanitary landfills, and solid waste transfer stations (BAAQMD 2017a). The proposed project would not include uses that have been identified by BAAQMD as potential sources of objectionable odors. Potential odor impacts would be less than significant.

Consequently, impacts related to air quality would be less than significant and therefore will not be discussed in the pending EIR.

2.4 BIOLOGICAL RESOURCES

Implementation of the project would result in construction and operational activities that could result in potentially significant impacts to biological resources related to special-status species, sensitive habitats, wetlands and waters, wildlife movement, and policies and plans for the protection of biological resources. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the pending EIR.

2.5 CULTURAL RESOURCES

Implementation of the project would result in construction activities that could result in potentially significant cultural resource impacts related to historic resources, archaeological resources, and human remains. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the pending EIR.

2.6 ENERGY

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. ENERGY – Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

2.6.1 ENVIRONMENTAL SETTING

Energy infrastructure on the UC Berkeley campus consists of several interconnected systems: electricity and natural gas are provided by Pacific Gas and Electric Company (PG&E), and power to some sites is provided by East Bay Community Energy (EBCE) and the University of California wholesale power program; on-campus PV arrays; in-building chillers; a cogeneration plant on the Campus Park producing steam and electricity that is powered by natural gas; and a steam plant on the Clark Kerr Campus. The Campus Park's cogeneration plant consists of a 125 pounds per square inch gauge (psig) steam distribution infrastructure servicing approximately 120 UC Berkeley buildings and providing approximately 90 percent of the electricity and 100 percent of the steam needs for the Campus Park. In addition, five rooftop PV systems and one canopy PV system operated by UC Berkeley provide approximately 1,386,131 kilowatt-hour (kWh) per year of renewable electricity (UC Berkeley 2021c). Furthermore, the UC Berkeley Sustainability Plan provides structure to articulate the vision, goals, and strategies to become more sustainable and align with systemwide UC Sustainable Practices Policy which requires UC Berkeley to obtain 100% clean electricity by 2025 (UC Berkeley 2020). Energy consumption and potential impacts associated with construction and operation of the proposed project are assessed below, in accordance with the guidance presented in Appendix F of the CEQA Guidelines, as applicable.

2.6.2 DISCUSSION

a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? (Less than Significant)

At a minimum, the proposed project would be designed and constructed to the LEED Silver Certification. Additionally, as part of the proposed project and to reduce energy consumption, UC Berkeley would implement CBPs listed here, where relevant:

- **CBP AIR-1:** UC Berkeley will continue to implement the same or equivalent transportation programs as currently exist, that strive to reduce the use of single-occupant and/or greenhouse gas emitting (internal combustion engine) vehicles by students, staff, faculty, and visitors to the UC Berkeley campus.
- **CBP USS-3:** UC Berkeley will continue to incorporate specific water conservation measures into project design to reduce water consumption and wastewater generation. This could include the use of special air-flow aerators, water-saving shower heads, flush cycle reducers, low-volume toilets, weather-based or evapotranspiration irrigation controllers, drip irrigation systems, and the use of

drought resistant plantings in landscaped areas, and collaboration with the East Bay Municipal Utility District to explore suitable uses of recycled water.

- **CBP TRAN-1:** UC Berkeley will implement bicycle, pedestrian, and transit access and circulation improvements as part of new building projects, major renovations, and landscape projects. Improvements will address the goal of increasing non-vehicular commuting and safety; improving access from adjacent campus or city streets and public transit; reducing multi-modal conflict; providing bicycle parking; and providing commuter amenities.

An analysis of construction and operational energy impacts is provided below.

Construction

Electricity. The amount of electricity used during construction would be minimal because typical demand would be generated by any electrically powered hand tools. The electricity used for construction activities would be temporary and minimal; therefore, project construction would not result in wasteful, inefficient, or unnecessary consumption of electricity.

Natural Gas. Natural gas is not anticipated to be required during construction of the proposed project. Fuels used for construction would primarily consist of diesel and gasoline, which are discussed below. Any minor amounts of natural gas that may be consumed as a result of project construction would be temporary and negligible and would not have an adverse effect; therefore, project construction would not result in wasteful, inefficient, or unnecessary consumption of natural gas.

Petroleum. The primary energy consumed during construction would be associated with petroleum usage. Potential impacts were assessed for off-road equipment and on-road vehicle trips during construction, as provided by the CalEEMod outputs (see Appendix A-1). Heavy-duty equipment associated with construction would rely on diesel fuel, as would vendor trucks involved in delivery of materials to the project site and haul trucks. Construction workers would travel to and from the project site throughout the duration of construction. It is assumed in this analysis that construction workers would travel in gasoline-powered light-duty vehicles. Fuel consumption from construction equipment and vehicle trips was estimated by converting the total carbon dioxide (CO_2) emissions anticipated to be generated by the construction of the proposed project to gallons using conversion factors for CO_2 to gallons of gasoline or diesel. The conversion factor for gasoline is 8.78 kilograms per metric ton (MT) CO_2 per gallon, and the conversion factor for diesel is 10.21 kilograms per MT CO_2 per gallon (The Climate Registry 2021). Appendix A-1 lists the estimated equipment usage and vehicle trips for construction of each phase of the project development.

The estimated diesel fuel usage from construction equipment, haul trucks, and vendor trucks, as well as estimated gasoline fuel usage from worker vehicles is shown in Table 2.6-1.

TABLE 2.6-1. PROJECT CONSTRUCTION PETROLEUM DEMAND

Phase	Off-Road Equipment (diesel)	Haul Trucks (diesel)	Vendor Trucks (diesel)	Worker Vehicles (gasoline)
	Gallons			
Construction	20,886.92	935.96	2,869.91	2,887.96
			Total Petroleum Consumed	27,580.76

Notes: See Appendix A-1 for details on estimated equipment usage and vehicle trips for construction of each phase of project development.

As shown in Table 2.6-1, the proposed project is estimated to consume approximately 27,581 gallons of petroleum during the construction phase. Notably, the proposed project will be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation that applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation: (1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles, (2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled, (3) restricts the adding of older vehicles into fleets starting on January 1, 2014, and (4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The fleet must either show that its fleet average index was less than or equal to the calculated fleet average target rate, or that the fleet has met the Best Achievable Control Technology (BACT) requirements.

Operations

Electricity. Operation of the proposed project would require electricity for multiple purposes including building heating, lighting (i.e., building and pole lights), appliances, electronics, the score board, sports equipment (e.g., batting cages) and for water and wastewater treatment and conveyance. Default assumptions in CalEEMod were used if project-specific information was not available. Notably, electricity for the scoreboard was estimated by scaling electricity demand for a representative board, based on the size and anticipated annual usage. Anticipated electricity demand for project operations is depicted in Table 2.6-2. Given that existing electricity demand for the existing field was not readily available, Table 2.6-2 does not reflect the net increase with the project, but rather total project demand.

TABLE 2.6-2. ANNUAL OPERATIONAL ELECTRICITY DEMAND

Softball Field Project Components	kWh/year
Project Building, Lighting, and Scoreboard	489,939.50
Water/Wastewater	23,092.18
Total	**513,031.68**

Source: Appendix A-1.
Notes: kWh = kilowatt-hour.

Natural Gas. No natural gas infrastructure would serve the project site. The project would not require natural gas for project operations.

Petroleum. During operations, fuel consumption resulting from the proposed project would result from the use of motor vehicles traveling to and from the project site. Petroleum fuel consumption associated with motor vehicles traveling to and from the project site is a function of the vehicle miles traveled (VMT) as a result of project operation. The proportion of gasoline and diesel vehicles is based on the weighted average of vehicles per fuel type from EMFAC2017 and the CalEEMod default fleet mix for the proposed uses. Fuel estimates for the net increase in project trips are provided in Table 2.6-3.

TABLE 2.6-3. NET INCREASE IN ANNUAL OPERATIONAL PETROLEUM DEMAND

Fuel	Vehicle MT CO_2	Kg CO_2/ Gallon	Gallons
Gasoline	18.27	8.78	2,081.09
Diesel	0.98	10.21	96.07
		Total Project Petroleum Use	**2,177.16**

Sources: Trips and vehicle CO_2 (Appendix A-1); kg CO_2/Gallon (The Climate Registry 2021).
Notes: MT = metric ton; CO_2 = carbon dioxide; kg = kilogram.

Conclusions

Overall, because the proposed project would not be unusual as compared to overall local and regional demand for energy resources, would not involve characteristics that require equipment or vehicles that would be less energy-efficient than at comparable sites in the region or state, and would include a game-day TDM plan encouraging transit and shuttle use, the proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources during construction or operations. Therefore, project-related construction and operational energy impacts would be less than significant.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency? (Less than Significant)

Based upon its constitutional autonomy, UC Berkeley is not subject to local regulations related to energy usage. However, it is subject to State regulations and plans. Title 24 of the California Code of Regulations contains energy efficiency standards for residential and non-residential buildings based on a state mandate to reduce California's energy demand. Specifically, Title 24 addresses energy efficiency measures that impact energy used for lighting, water heating, heating, and air conditioning, including the energy impact of the building envelope such as windows, doors, wall/floor/ceiling assemblies, and roofs. Part 6 of Title 24 specifically establishes energy efficiency standards for residential and non-residential buildings constructed in the State of California to reduce energy demand and consumption. Part 11 of Title 24 also includes the CALGreen standards, which established mandatory minimum environmental performance standards for new construction projects. The proposed project would comply with Title 24, Part 6 and Part 11, per state regulations. The proposed project would also be required to meet the green facility standards in the UC Sustainable Practices Policy, the UC Berkeley Energy Use Policy, and the UC Berkeley Campus Design Standards, including being constructed to LEED Silver Certification at a minimum. Based on the foregoing, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency; therefore, impacts during construction and operation of the project would be less than significant.

Consequently, impacts related to energy would be less than significant and therefore will not be discussed in the pending EIR.

2.7 GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or indirectly cause 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?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
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 off-site 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 direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☒	☐	☐	☐

2.7.1 ENVIRONMENTAL SETTING

This section is based on a geotechnical investigation report (A3GEO 2018) prepared for project.

UC Berkeley and the project site are located east of San Francisco Bay in the northern portion of the Coast Ranges geomorphic province. The region is characterized by northwest-trending mountain ranges and valleys that generally parallel the major geologic structures, such as the San Andreas and Hayward faults. The oldest widespread rocks in the region are highly deformed sedimentary and volcanic rocks of the Franciscan Assemblage, formed during the Mesozoic Age (225 million to 65 million years ago). These rocks are in fault contact with similar-age sedimentary rocks of the Mesozoic Age–Great Valley Sequence. The Mesozoic rocks are, in turn, overlaid by a diverse sequence of sedimentary and volcanic rocks from the Tertiary Age (65 million to 1.8 million years ago). Alluvial materials, derived from these bedrock units, have been conveyed by streams draining the East Bay Hills and deposited in a broad alluvial plain. Since the deposition of the bedrock units, the Mesozoic and Tertiary rocks have been extensively deformed by repeated episodes of folding and faulting. In general, upland areas, such as the East Bay Hills, have experienced some tectonic uplift over time, and the adjacent alluvial plains and lowlands have experienced some subsidence (UC Berkeley 2021c).

The project site is located within the East Bay Hills which locally trend southeast-northwest. The East Bay Hills are within an area of active tectonic uplift and young topography between active strands of the San Andreas fault system (e.g., Hayward and Calaveras faults). The seismicity of the San Francisco Bay region is well-recognized, and the East Bay Hills predominantly consist of bedrock that has been faulted, folded, and uplifted by tectonic forces. Uplift and erosional dissection of the East Bay Hills has resulted in a series of valleys/canyons (i.e., Strawberry Creek) that drain to the southwest with intervening steep slopes (LCI 2018). The site lies in Strawberry Canyon, east of the Hayward fault, in an area of Quaternary natural alluvial fan and fluvial deposits. These unconsolidated deposits are underlain by undivided rock of the Great Valley Complex, which are Cretaceous in age (A3GEO 2018).

Within the San Francisco Bay region, the relative motion of the Pacific and North American crustal plates is presently accommodated by a series of active northwest-trending faults that exist over a width of more than 50 miles. Table 2.7-1 lists the major active faults in the region and their proximity to the proposed project.

TABLE 2.7-1. APPROXIMATE DISTANCES AND DIRECTIONS TO PRINCIPAL BAY AREA ACTIVE FAULTS

Fault System	Approximate Distance from Proposed Project	Approximate Direction from Proposed Project
Hayward-Rodgers Creek	800 feet	West-Southwest
Concord-Green Valley	13 miles	East-Northeast
West Napa	17 miles	North-Northeast
San Andreas	19 miles	West-Southwest
San Gregorio	21 miles	West-Southwest
Calaveras	11 miles	East-Southeast
Pleasanton	16 miles	East-Southeast
Greenville – Clayton – Marsh Creek	17 miles	East-Northeast

Source: A3GEO 2018.

As noted in Table 2.7-1, the closest regional active fault to the project site is the Hayward fault. The Hayward-Rodgers Creek fault system is one of the primary active faults in the San Francisco Bay region and overall has the highest probability of generating a large-magnitude earthquake within the next 30 years (A3GEO 2018). The last significant rupture occurred in 1868 along its southern section (LCI 2018). The project site is located approximately 700 feet east of the Alquist-Priolo Earthquake Fault Zone for the Hayward fault (CGS 2022).

The project site overlaps with the liquefaction hazard zone along the western portion of the site and an earthquake-induced landslide zone lies beyond the project site's southern boundary (A3GEO 2018). Liquefaction zones are described as areas where historical occurrence of liquefaction or local geotechnical and ground water conditions indicate a potential for permanent ground displacement. Earthquake-induced landslide zones are defined as areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate potential for ground displacements (A3GEO 2018).

Based on information obtained from the United States Department of Agriculture, Natural Resources Conservation Service Web Soil Survey online database, the 65% of the project site is mapped as Urban land, 20% of the project site is mapped as Maymen-Los Gatos complex with 30 to 75% slopes, and 15% of the project site is mapped as Maymen loam with 30 to 75% slopes (USDA 2022). The Maymen series consists of shallow, somewhat excessively drained soils that formed in residuum of sedimentary rock (USDA 1981). Generally, the soils at the project site consist of an artificial fill topsoil layer (ranging between approximately 2 feet to 38 feet below ground surface, underlain by natural alluvium/colluvium deposits (2 feet to 27 feet BGS) and bedrock of the Great Valley Complex (20 feet to 470 feet BGS) (A3GEO 2018).

Groundwater was not encountered in exploratory borings at the project site during the subsurface geotechnical boring performed by A3GEO. Groundwater was also not encountered in boreholes drilled by Herzog Associates in September 1992 or in boreholes drilled by WCSA around 1959. Groundwater levels can fluctuate significantly with location, season, precipitation, leakage in and out of utilities, and other factors (A3GEO 2018).

When the project site and surroundings were filled as part of the Strawberry Canyon Recreation Area, Strawberry Creek was re-routed into two culverts, known as the Little Inch and the Big Inch. The Big Inch is reportedly a 60- to 72-inch bypass culvert that begins at Strawberry Canyon Dam, up the canyon from the project site. The Little Inch is reportedly 30 or 36 inches (and begins at a drop inlet just above the Haas Clubhouse (A3GEO 2018). The

geotechnical engineer, A3GEO, reviewed readily available information pertaining to the locations of the Big Inch and Little Inch in the vicinity of the project site but was unable to confirm the location of either culvert, as both the Big Inch and Little Inch are shown at various locations on various historic plans.

2.7.2 DISCUSSION

a) Would the project directly or indirectly cause 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. (Less than Significant)

and

ii) Strong seismic ground shaking? (Less than Significant)

As discussed above, the project site is not within an Alquist-Priolo Earthquake Fault Zone. The active trace of the Hayward fault is located about 800 feet west-southwest of the project site. The geotechnical report anticipates that a large earthquake occurring on the nearby Hayward Fault may result in co-seismic deformations and/or displacement within the project site. The structures proposed as part of the project would comply with the University Policy on Seismic Safety and would incorporate geotechnical recommendations that reduce seismic hazards, including implementing USGS seismic design parameters per the California Building Code, as reported on in the project geotechnical report. Furthermore, they would incorporate the applicable continuing best practices (CBPs) listed in geology and soils impact question (aiii) below. The Strawberry Canyon Fault, located within the project site, is considered inactive (A3GEO 2018). Therefore, impacts related to fault rupture would be less than significant.

iii) Seismic-related ground failure, including liquefaction? (Less than Significant)

As with most areas within the State of California, the project site and surrounding region would be exposed to ground shaking from seismic events on local and regional faults. Given the proximity of the proposed project to the nearest active earthquake fault, strong ground shaking may occur at the project site.

Potential secondary seismic hazards that could affect the proposed project include liquefaction, lateral spreading, seismically induced settlement, and differential compaction. Liquefaction is a phenomenon under which ground shaking can cause soils under groundwater to lose strength and gain mobility (i.e., liquefy) under certain conditions. The soils generally considered most susceptible to liquefaction are sands, silts, and gravels having little or no cohesion; however, cohesive soils (silts and clays) of low plasticity can exhibit generally similar types of behavior. Liquefaction is only a concern where susceptible soils are submerged below groundwater at the time when an earthquake large enough to trigger liquefaction occurs. When unsaturated (i.e., above groundwater) soils that would be susceptible to liquefaction if they were saturated may be subject to seismically induced densification, the principal effect of which is settlement.

Based on the general nature of soils observed in the test borings conducted for the geotechnical investigation at the project site, soils at the site are generally too dense, too clayey, and/or too plastic to liquefy. Further, groundwater was not observed in any of the recent or historic test borings, indicating that the conditions to trigger liquefaction are likely absent. It is possible that isolated lenses and pockets could be susceptible to liquefaction were they to be saturated at the time an earthquake occurred. Similarly, if unsaturated, these materials could be subject to seismically-induced densification. However, given the general conditions observed at the site, the possibility of widespread, large-scale liquefaction settlement is very low (A3GEO 2018). In addition to adhering to all recommendations of the geotechnical investigation prepared for the project including but not limited to a deep foundation, the project would comply with the California Building Code, University of California Seismic Safety Policy, including review by the Seismic Review Committee, and University CBPs here, where relevant:

- **CBP GEO-1:** UC Berkeley will continue to comply with the California Building Code and the University of California Seismic Safety Policy.
- **CBP GEO-2:** Site-specific geotechnical studies will be conducted under the supervision of a California Registered Certified Engineering Geologist or licensed geotechnical engineer and UC Berkeley will incorporate recommendations for geotechnical hazard prevention and abatement into project design.
- **CBP GEO-3:** The UC Berkeley Seismic Review Committee will continue to review all seismic and structural engineering design for new and renovated existing buildings on campus.
- **CBP GEO-4:** UC Berkeley will continue to use site-specific seismic ground motions for analysis and design of campus projects. Site-specific ground motions provide more current geo-seismic data than the U.S. Geological Survey (USGS) and are used for performance-based analyses.
- **CBP GEO-5:** UC Berkeley will continue to comply with the UC Seismic Safety Policy. Through this program, UC Berkeley will continue to identify buildings in need of upgrades and include seismic improvements as part of its Capital Financial Plan.
- **CBP GEO-6:** UC Berkeley will continue to implement programs and projects in emergency planning, training, response, and recovery. Each campus Building Coordinator will prepare, and update as needed, building response plans and coordinate education and planning for all building occupants.
- **CBP GEO-7:** As stipulated in the UC Seismic Safety Policy, the design parameters for specific site peak acceleration and structural reinforcement will be determined by the geotechnical and structural engineer for each new or rehabilitation project proposed under the LRDP. The acceptable level of actual damage that could be sustained by specific structures will be calculated based on geotechnical information obtained at the specific building site.
- **CBP GEO-8:** Site-specific geotechnical studies will include an assessment of landslide hazard, including seismic vibration and other factors contributing to slope stability.
- **CBP GEO-9:** Campus construction projects must comply with the Campus Design Standards, which contain regulatory and other campus requirements for construction-phase and post-construction stormwater management.

Therefore, the impact related to seismic ground shaking and other secondary seismic hazards would be less than significant.

iv) Landslides? (Less than Significant)

As discussed above, the project site is not located within a landslide hazard zone. However, an earthquake-induced landslide zone lies beyond the project site's southern boundary. Previous geologic mapping by Herzog Associates in 1992 identified the presence of a probable landslide just beyond the south boundary of the site. At the time of the 1992 study, the landslide was assumed to be dormant, however it is conceivable that an earthquake could trigger this slide to move again, or could trigger landslides or slumps elsewhere in the hills to the north and south of the project site. The overall likelihood of landsliding to occur below the project site affecting planned structures is very low to negligible (A3GEO 2018). Therefore, impacts related to landslides would be less than significant.

b) Would the project result in substantial soil erosion or the loss of topsoil? (Less than Significant)

The project site itself is generally flat, with a 12-foot elevation change from the south corner to the north. Project construction would include grading, trenching, and removing trees and other vegetation. These activities would include ground disturbance, which would potentially result in short-term soil erosion. However, because the proposed project footprint is greater than 1 acre, it would be subject to the National Pollutant Discharge Elimination System (NPDES) permit requirements for construction site stormwater discharges and would comply with those requirements. A Storm Water Pollution Prevention Plan (SWPPP) is required to be prepared and implemented under these requirements, which includes appropriate erosion-control and water-quality-control measures during site preparation, grading, construction, and post-construction. Implementation of the SWPPP for the proposed project would minimize short-term erosion impacts. Long-term impacts of the proposed project would not result in substantial erosion, as the soils would be covered by buildings, pavement, vegetation, and landscaping (see Section 2.10, Hydrology and Water Quality, for information about stormwater management on the project site). Therefore, proposed project impacts related to erosion would be less than significant.

c) Would the project 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 off-site landslide, lateral spreading, subsidence, liquefaction or collapse? (Less than Significant)

As described in geology and soils impact question (aiii) above, the liquefaction potential at the project site is considered very low. The project site is not within a landslide hazard zone and would not exacerbate landslide hazards. Lateral spreading, which is commonly associated with liquefaction and occurs when a continuous layer of soil liquefies at depth and the soil layers above move toward an unsupported face, would also not be expected to occur due to the site's relatively flat topography and very low liquefaction potential.

As indicated in Section 2.7.1, Environmental Setting, the locations, depths, and conditions of the two culverts (Big Inch and Little Inch) could not be identified during the geotechnical study. Subsidence, such as ground surface settlement or sinkhole development can occur in cases where soils are washed into culverts through holes in culvert pipes or gaps between pipe segments. Adhering to all recommendations of the geotechnical investigation prepared for the project, including but not limited to the proposed deep foundation for the project, should address subsidence issues related to culvert integrity. Additionally, the potential that subsidence effects could damage planned pavement, slabs or other "at-grade" improvements is low (A3GEO 2018). In addition to adhering to all recommendations of the geotechnical investigation prepared for the project, the project would comply with the California Building Code, University of California Seismic Safety Policy, including review by the Seismic Review Committee, and University CBPs

in geology and soils impact question (aiii), where relevant, which would further reduce potential risks related to soil instability. Therefore, associated impacts related to unstable soils would be less than significant.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? (Less than Significant)

Expansive soils can undergo significant volume change with changes in moisture content; they shrink and harden when dried and expand and soften when wetted. The geotechnical investigation report states that the artificial fill at the site is generally non-expansive and rock fragments, organic material, and debris were observed in the fill (A3GEO 2018). Furthermore, the project would adhere to California Building Code procedures and recommendations of the geotechnical investigation prepared for the project. Therefore, impacts related to expansive soils would be less than significant.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? (No Impact)

The proposed project would connect to sewer facilities and would not include septic tanks or alternative wastewater disposal systems. Therefore, no impact related to septic tanks or alternative wastewater disposal systems would occur.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? (Potentially Significant)

The project site is underlain by artificial fill topsoil layer and Holocene alluvial fan and fluvial deposits (Qhl); Qhl is not considered a highly sensitive geologic formation where fossils could potentially be found (UC Berkeley 2021c). These unconsolidated deposits are underlain by undivided bedrock of the Great Valley Complex, which are Cretaceous in age, at 20 to 470 feet BGS (A3GEO 2018). The Great Valley Complex is highly sensitive for geological formations where fossils could potentially be found (UC Berkeley 2021c). Given that the project geotechnical report calls for a deep foundation with drilled piers extending a minimum of 5 feet into bedrock (A3GEO 2018), project construction has the potential to adversely affect unique paleontological resources. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the Cultural Resources section of the pending EIR.

Consequently, impacts related to geology and soils (other than paleontological resources) would be less than significant and therefore will not be discussed in the pending EIR. As indicated above, paleontological resources will be analyzed further in the Cultural Resources section of the pending EIR.

2.8 GREENHOUSE GAS EMISSIONS

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII.	**GREENHOUSE GAS EMISSIONS – Would the project:**				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

2.8.1 ENVIRONMENTAL SETTING

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system, and many factors (natural and human) can cause changes in Earth's energy balance. The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature, and it creates a livable environment on Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise. Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008).

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code Section 38505(g) for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include CO_2, methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3) (see also 14 CCR 15364.5). The three GHGs evaluated herein are CO_2, CH_4, and N_2O. Emissions of HFCs, PFCs, SF_6, and NF_3 are generally associated with industrial activities including the manufacturing of electrical components, heavy-duty air conditioning units, and insulation of electrical transmission equipment (substations, power lines, and switch gears.). Therefore, emissions of these GHGs were not evaluated or estimated in this analysis because the proposed project would not include these activities or components and would not generate HFCs, PFCs, SF_6, and NF_3 in measurable quantities.

Gases in the atmosphere can contribute to climate change both directly and indirectly.[7] The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons of CO_2 equivalent (MT CO_2e). Consistent with CalEEMod Version 2020.4.0, this GHG emissions analysis assumed the GWP for CH_4 is 25 (emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC 2007).

There are two thresholds applied to this analysis. UC Berkeley has determined that application of these thresholds is appropriate for the proposed project within the context of campus-wide operations. These thresholds are:

1. **No Net Increase Threshold.** Given the seriousness of climate change and the regional significance of UC Berkeley, UC Berkeley has determined that for the purposes of this analysis, any increase in GHG

[7] Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2017).

emissions above existing conditions (no net increase) campus wide,[8] would result in a significant impact on the environment.

2. **Carbon Neutrality Threshold.** Reduce or offset total GHG emissions campus wide by 2045.

Notably, the University of California Office of the President's (UCOP's) and UC Berkeley's goals for carbon neutrality (i.e., "net zero") are more stringent than the threshold established under CEQA (e.g., "no net increase"). Under the University Carbon Neutrality Initiative, carbon neutrality is defined as having "net zero" GHG emissions to be achieved by:

- Eliminating GHG emissions, or
- Minimizing GHG emissions as much as possible and using compliance and voluntary carbon offsets or other measures to mitigate the remaining emissions.[9]

Under the UC Sustainable Practices Policy, to achieve carbon neutrality all Scope 1 (direct GHG emissions, such as on-road motor vehicles) and Scope 2 (indirect GHG emissions associated with the purchase of electricity, heat, cooling, or steam from a utility) emissions must be either reduced or offset (2025). In addition, in accordance with the UC Berkeley Sustainability Plan, UC Berkeley would achieve carbon neutrality for expanded Scope 3 sources (commute, air travel, water and waste-related emissions) by 2050 or sooner. Because it is not fully possible to completely eliminate GHG emissions from UC Berkeley activities, carbon offsets (compliance offsets and voluntary offsets) are utilized to achieve UC Berkeley's carbon neutrality goals. The Carbon Neutrality Threshold is based on a trajectory to achieve carbon neutrality by 2045 and is used to evaluate consistency with UCOP and UC Berkeley plans adopted to reduce GHG emissions. See Section 2.8.2, Discussion, for additional information about the UC Sustainable Practices Policy.

2.8.2 DISCUSSION

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? (Less than Significant)

Construction

Construction of the proposed project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor (material delivery) trucks, haul trucks, and worker vehicles. A detailed depiction of the construction schedule—including information regarding phasing, equipment utilized during each phase, trucks, and worker vehicles—is included in Appendix A-1. The estimated project-generated GHG emissions from construction activities are shown in Table 2.8-1.

TABLE 2.8-1. ESTIMATED ANNUAL CONSTRUCTION GREENHOUSE GAS EMISSIONS

Construction Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year[1]			
2023	207.11	0.03	<0.01	209.51

[8] These thresholds are taken from the *UC Berkeley 2021 Long Range Development Plan and Housing Projects #1 and #2 Draft Environmental Impact Report*. CEQA preparers have identified these as "campus wide" in both thresholds herein to avoid confusion because these thresholds do not apply to the proposed project alone, but rather within the context of campus wide operations.

[9] A GHG offsets enables development projects to compensate for their GHG emissions and associated environmental impacts by financing reduction in GHG emissions elsewhere.

TABLE 2.8-1. ESTIMATED ANNUAL CONSTRUCTION GREENHOUSE GAS EMISSIONS

Construction Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year[1]			
2024	70.36	0.01	<0.01	71.05
			Total GHG Emissions	**280.56**
			30-Year Amortized Emissions	***9.35***

Source: Appendix A-1.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; GHG = greenhouse gas.
Since construction emissions are short-term, the total GHGs were estimated and amortized over 30-years.
1. <0.01 = value is less than 0.01 metric tons per year.

Operations

Operation of the proposed softball field would generate minimal GHG emissions through motor vehicle trips to and from the project site; landscape maintenance equipment operation; energy use (electricity consumed by the project);[10] solid waste disposal; and generation of electricity associated with water supply distribution.

CalEEMod was used to calculate the annual GHG emissions based on the proposed land uses. The estimated operational project-generated GHG emissions from area sources, energy usage, motor vehicles, solid waste generation, and water usage are shown in Table 2.8-2. Given that existing information about most source GHG emissions for the existing softball field were not readily available, Table 2.8-2 does not reflect the net increase with the project in most instances, except for mobile source emissions. Appendix A-1 provides the modeling results reflected in Table 2.8-2.

TABLE 2.8-2. ESTIMATED ANNUAL OPERATIONAL GREENHOUSE GAS EMISSIONS

Emission Source	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year[1]			
Area	<0.01	0.00	0.00	<0.01
Energy[2]	45.29	0.01	<0.01	45.74
Mobile	19.25	<0.01	<0.01	19.59
Solid waste[3]	32.17	1.90	0.00	79.70
Water supply	3.27	0.12	<0.01	7.02
			Total Operational GHGs	**152.05**
			Amortized Construction	*9.35*
			Operational Emissions plus Amortized Construction	**161.40**

Source: Appendix A-1.
Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
1. <0.01 = value is less than 0.01 metric tons per year.
2. Pursuant to the UC's Sustainable Practices Policy, UC Berkeley is required to obtain 100% clean electricity by 2025. Accordingly, following project operation in 2024, there would be zero GHG emissions generated by purchased electricity.
3. Includes 54 percent solid waste diversion based on current campus average.

As depicted in Table 2.8-2 above, project operations plus amortized construction would result in an increase of approximately 161 MT CO_2e per year. Notably, however, pursuant to the UC's Sustainable Practices

10 CalEEMod default GHG intensity values for PG&E were assumed for electricity generation.

Policy, UC Berkeley is required to obtain 100% clean electricity by 2025. Accordingly, following project operation in 2024, there would be zero GHG emissions generated by purchased electricity.

Overall, UC Berkeley will implement the UC Sustainable Practices Policy to meet the requirement of carbon neutrality for Scope 1 and 2 emissions by 2025 and carbon neutrality for Scope 3 emissions by 2045. These commitments will be incorporated into UC Berkeley's annual GHG inventory, which is used to track GHG emissions and sources on the UC Berkeley campus. GHG emissions are tracked in the context of the UC Berkeley campus wide GHG reduction goals. UC Berkeley conducts annual GHG emissions inventories and implements the UCOP and UC Berkeley sustainability and policy initiative. The proposed project would be subject to these sustainability policies, including the requirement that electricity be procured from 100 percent renewable sources. Compliance with the UC Berkeley sustainability and policy initiative results in decreased annual GHG emissions compared to existing conditions (either through UC Berkeley sustainability initiatives, offsets, or a combination of both). GHG reductions achieved by the on-site and off-site actions will be incorporated into the annual GHG inventory and annual reporting practices established by the UC Sustainable Practices Policy. As part of this reporting, the estimated annual emissions shall then be compared to the measured performance standards (i.e., 67 percent reduction by 2036 and 100 percent by 2045) to determine the level of additional GHG reductions (if any) that may be required.

Pursuant to the UC Sustainable Practices Policy and associated GHG emission reduction commitments, UC Berkeley will purchase voluntary carbon credits as the final action to reach the GHG emission reduction targets outlined in the policy. As part of the University Carbon Neutrality Initiative, internal guidelines have been developed to ensure that any use of credits for this purpose will result in additional, verified GHG emissions reductions from actions that align as much as possible with UC Berkeley's research, teaching, and public service mission. UC Berkeley shall implement one or more of the following options to reduce GHG emissions to achieve net zero GHG emissions.

1. **Option 1: On-site GHG Reduction Actions.** Implement on-site GHG reduction actions at UC Berkeley specified in the UC Sustainable Practices Policy and UC Berkeley sustainability plans, standards and policies.
2. **Option 2: Voluntary and UC Developed Carbon Offsets.** In addition to compliance offsets required by cap and trade, UC Berkeley may purchase GHG carbon offsets from a voluntary GHG carbon offset provider with an established protocol that requires projects generating GHG carbon offsets to demonstrate that the reduction of GHG emissions is real, permanent, quantifiable, verifiable, enforceable, and additional (per the definition in California Health and Safety Code Sections 38562(d)(1) and (2)). UC Berkeley may purchase GHG carbon offsets from UC developed voluntary carbon offset projects that are real, permanent, quantifiable, peer verifiable, enforceable, and additional. Definitions for these terms include the following:
    a) **Real:** Estimated GHG reductions should not be an artifact of incomplete or inaccurate emissions accounting. Methods for quantifying emission reductions should be conservative to avoid overstating a project's effects. The effects of a project on GHG emissions must be comprehensively accounted for, including unintended effects (often referred to as "leakage").
    b) **Additional:** GHG reductions must be additional to any that would have occurred in the absence of the Climate Action Reserve, or of a market for GHG reductions generally. "Business as usual" reductions (i.e., those that would occur in the absence of a GHG reduction market) should not be eligible for registration.

c) **Permanent:** To function as offsets to GHG emissions, GHG reductions must effectively be "permanent." This means, in general, that any net reversal in GHG reductions used to offset emissions must be fully accounted for and compensated through the achievement of additional reductions.

d) **Quantifiable:** The ability to accurately measure and calculate GHG reductions or GHG removal enhancements relative to a project baseline in a reliable and replicable manner for all GHG emission sources, GHG sinks, or GHG reservoirs included within the offset project boundary, while accounting for uncertainty and activity-shifting leakage and market-shifting leakage.

e) **Verified:** GHG reductions must result from activities that have been verified. Verification requires third-party (or peer review if UC-developed voluntary carbon offset projects) of monitoring data for a project to ensure the data are complete and accurate.

f) **Enforceable:** The emission reductions from offset must be backed by a legal instrument or contract that defines exclusive ownership and can be enforced within the legal system in the country in which the offset project occurs or through other compulsory means. Please note that for this mitigation measure, only credits originating within the United States are allowed.

GHG credits may be in the form of GHG offsets for prior reductions of GHG emissions verified through protocols or forecasted mitigation units for future committed GHG emissions meeting protocols. All credits shall be documented per protocols functionally equivalent in terms of stringency to CARB's protocol for offsets in the cap and trade program. If using credits not from CARB protocols, UC Berkeley must provide the protocols from the credit provider and must document why the protocols are functionally equivalent in terms of stringency to CARB protocols.

UC Berkeley shall identify GHG credits in geographies closest to Berkeley first and only go to larger geographies (i.e., California, United States) if adequate credits cannot be found in closer geographies, or the procurement of such credits would create an undue financial burden. UC Berkeley shall provide the following justification for not using credits in closer geographies in terms of either availability or cost prohibition.

- Lack of enough credits available in closer geographies (i.e., Alameda County).
- Prohibitively costly credits in closer geographies defined as credits costing more than 300% the amount of the current costs of credits in the regulated CARB offset market.
- UC Berkeley documentation submitted supporting GHG credit proposals shall be prepared by individuals qualified in GHG credit development and verification and such individuals shall certify the following.
- Proposed credits meet the criteria in California Health and Safety Code Section 38562(d)(1) and (d)(2).
- Proposed credits meet the definitions for the criteria provided in this measure.
- The protocols used for the credits meet or exceed the standards for stringency used in CARB protocols for offsets under the California cap-and-trade system.

Implementation of UC Sustainable Practices Policy to meet the requirement of carbon neutrality would ensure a net zero increase in GHG emissions campus wide, with the implementation of the proposed project. Therefore, GHG impacts of the proposed project would be less than significant.

b) Would the project generate conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? (Less than Significant)

State Plans

The CARB Scoping Plan, approved by CARB in 2008 and updated in 2014 and 2017,[11] provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. As such, the Scoping Plan is not directly applicable to specific projects. Relatedly, in the Final Statement of Reasons for the Amendments to the CEQA Guidelines, the California Natural Resources Agency (CNRA) observed that "[t]he [Scoping Plan] may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009). Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-global warming potential GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., low-carbon fuel standard), among others. The proposed project would comply with all applicable regulations adopted in furtherance of the Scoping Plan to the extent required by law.

The project would also not impede the attainment of the GHG reduction goals for 2030 or 2045 identified in Senate Bill (SB) 32, Executive Order (EO) B-55-18, and AB 1279, respectively. EO B-55-18 establishes a statewide policy for the state to achieve carbon neutrality as soon as possible (no later than 2045) and to achieve and maintain net negative emissions thereafter. The Legislature enacted AB 1279, the California Climate Crisis Act, in September 2022, which declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, statewide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. Growth at UC Berkeley is guided by the UC Sustainable Practices Policy and UC Berkeley Sustainability Plan, including the Carbon Neutrality Initiative, which aligns reductions at the UC system with SB 32, EO B-55-18, AB 1279, and long-term goals identified in the Scoping Plan. Future development projects at UC Berkeley would be required to comply with these GHG emissions reduction measures because they are statewide strategies as well as with the UC Berkeley Sustainability Plan and the UC Sustainable Practices Policy. Therefore, implementation of the project would not conflict with the Scoping Plan or other general State regulations adopted for the purposes of reducing GHG emissions.

Regional Plan

The Plan Bay Area 2050 (MTC and ABAG 2021) is a regional growth management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks for the San Francisco Bay Area

[11] CARB presently is preparing the *2022 Scoping Plan Update*, which will assess progress towards achievement of the state's 2030 reduction target and lay out a path for the state's achievement of carbon neutrality by 2045. CARB is holding a number of public workshops to provide information on the plan update and solicit feedback from stakeholders. A draft plan has been released for public review and comment.

pursuant to SB 375. There are 35 strategies that comprise the heart of the plan to improve housing, the economy, transportation and the environment across the Bay Area's nine counties (MTC and ABAG 2021). Under Plan Bay Area 2050's strategies, just under half of all Bay Area households would live within one half-mile of frequent transit by 2050, with this share increasing to over 70% for households with low incomes. Transportation and environmental strategies that support active and shared modes, combined with a transit-supportive land use pattern, are forecasted to lower the share of Bay Area residents that drive to work alone from 50% in 2015 to 33% in 2050. GHG emissions from transportation would decrease significantly as a result of these transportation and land use changes, and the Bay Area would meet the state mandate of a 19% reduction in per capita emissions by 2035 — but only if all strategies are implemented (MTC and ABAG 2021). The proposed project would be consistent with the overall goals of Plan Bay Area 2050 in concentrating new development in locations where there is existing infrastructure and transit at the UC Berkeley campus. Specifically, the project site is served by three AC transit stops within 0.4 miles of the project site, as well as two Bear Transit shuttle stops, one across the street from the project and the other about 250 feet east of the project. These transit services promote alternative transportation (i.e., not single-occupant vehicles) and reduce VMT.

University of California and UC Berkeley GHG Reduction Plans

Growth on the UC Berkeley campus is governed by the policies and initiatives of the UCOP and UC Berkeley, including:

- UC Sustainable Practices Policy (2020)
- UC Berkeley Climate Action Plan (2009)
- University of California Carbon Neutrality Initiative (2013)
- UC Berkeley Carbon Neutrality Planning Framework (2016)
- UC Berkeley Sustainability Plan (2020)

The UC Berkeley Sustainability Plan outlines strategies to achieve the state, UCOP, and UC Berkeley GHG reduction goals. Further, implementation of UC Sustainable Practices Policy to meet the requirement of carbon neutrality, as described in GHG impact question (a) above, would ensure a net zero increase in GHG emissions campus wide, with the implementation of the proposed project. Therefore, the proposed project would be consistent with the applicable plans and regulations adopted for the purpose of reducing the emissions of GHGs, and GHG impacts would be less than significant.

Consequently, impacts related to greenhouse gas emissions would be less than significant and therefore will not be discussed in the pending EIR.

2.9 HAZARDS AND HAZARDOUS MATERIALS

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IX.	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?	☐	☐	☒	☐
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?	☐	☐	☒	☐
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d)	Be located on a site that 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?	☐	☐	☐	☒
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☒	☐	☐	☐
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☒	☐	☐	☐

2.9.1 ENVIRONMENTAL SETTING

Searches of the Department of Toxic Substance Control (DTSC) EnviroStor database (DTSC 2022) and California State Water Resources Control Board (SWRCB) GeoTracker database (SWRCB 2022) indicate no known releases of hazardous materials on or near the project site. There are three cleanup program sites approximately 1,500 feet north of the project site at Lawrence Berkeley National Laboratory. These cleanup sites are currently undergoing remediation overseen by the San Francisco Bay Regional Water Quality Control Board (RWQCB).

The federal government banned consumer use of lead-based paint (LBP) in 1978 and many, but not all, asbestos-containing materials (ACMs) were banned in construction products in 1989. As the existing softball field was constructed in 1995, after the ban of these materials, it is not anticipated to contain LBP or ACMs.

2.9.2 DISCUSSION

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? (Less than Significant)

The proposed project would result in a slight increase in the routine use of hazardous materials. The proposed project would include use of heavy equipment for demolition, grading, excavation, and construction. Fueling and maintenance of such equipment could result in incidental spills of petroleum products and hazardous materials in construction staging areas. However, such incidental spills would likely be minor and would be minimized through implementation of standard best management practices (BMPs) included in a NPDES-mandated SWPPP during construction. Relevant BMPs would typically include creation of designated fueling and maintenance areas located not in proximity to drainages and equipped with temporary spill containment booms, absorbent pads, and petroleum waste disposal containers. Some hazardous materials use would continue to occur in association with proposed project operations, including fertilizers, cleaning supplies, etc. Use of hazardous materials would be required to meet all applicable regulations related to the transport, use, and storage of such materials. Therefore, proposed project impacts associated with routine transport, use, and disposal of hazardous materials would be less than significant.

b) Would the project 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? (Less than Significant)

The proposed project would include demolition of the existing softball field. Prior to demolition, the campus would test and remove potential hazardous materials intrinsic to the softball field structure, including asbestos and, where required, lead (see CBP HAZ-4, below). Removal of hazardous materials would be completed by a licensed hazardous materials contractor, under the oversight of the UC Berkeley Office of Environment, Health and Safety (EH&S), prior to structural demolition. Recyclable contents and materials would be removed during demolition.

Furthermore, project construction would be required to comply with applicable state regulations regarding LBP work practices, including testing and abatement. The removal of ACMs would be subject to the Asbestos Demolition and Renovation Program administered by the Bay Area Air Quality Management District (BAAQMD), which protects the public from uncontrolled emissions of asbestos through enforcement of the Federal Asbestos Standard. The Program includes survey and notification requirements prior to beginning a project, as well as work practice standards and disposal requirements (BAAQMD 1998). Additionally, under California law, fluorescent lamps cannot be disposed as municipal waste. Fluorescent tubes and bulbs may be managed as universal wastes under Title 22, Chapter 23 of the California Code of Regulations and are typically recycled.

Additionally, as part of the proposed project and to minimize the potential for release of hazardous materials, UC Berkeley would implement CBPs listed here, where relevant:

- **CBP HAZ-4:** UC Berkeley will continue to perform hazardous materials surveys prior to capital projects in existing UC Berkeley buildings. UC Berkeley will continue to comply with federal, State, and local regulations governing the abatement and handling of hazardous building materials and each project will address this requirement in all construction.
- **CBP HAZ-5:** UC Berkeley will continue to perform site histories and due diligence assessments of all sites where ground-disturbing construction is proposed, to assess the potential for soil and

groundwater contamination resulting from past or current site land uses at the site or in the vicinity. The investigation will include review of regulatory records, historical maps and other historical documents, and inspection of current site conditions. UC Berkeley will act to protect the health and safety of workers or others potentially exposed should hazardous site conditions be found.

With adherence to applicable regulations and University CBPs, project impacts related to removal of hazardous materials during demolition would be less than significant.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? (Less than Significant)

There are no existing or proposed schools within on-quarter mile of the project site. The nearest school is Berkeley Rose Waldorf School, which is located approximately 0.65 miles southwest of the project site. Demolition of the existing softball field building could potentially involve the handling and disposal of hazardous waste products, including LBP, ACMs, petroleum products, etc. Handling of such substances would be regulated by federal and state hazardous materials laws that would minimize the risk of exposure to nearby land uses, including schools. Therefore, impacts would be less than significant.

d) Would the project be located on a site that 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? (No Impact)

The State of California Hazardous Waste and Substances Site List (also known as the "Cortese List") is a planning document used by state and local agencies and developers to comply with CEQA requirements in providing information about the location of hazardous materials sites. The project site is not on the list of hazardous material sites compiled pursuant to Government Code Section 65962.5. As such, the proposed project would have no impact related to the Cortese List.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? (No Impact)

The closest public airport to the project site is the Oakland International Airport, located approximately 9 miles to the south. The project site is not located within an airport land use plan. Therefore, no impact would occur related to aircraft safety hazards or excessive noise impacts in association with construction and operation of the proposed project.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? (Potentially Significant)

The proposed project could result in potentially significant impacts related to the implementation of or interference with an adopted emergency response or emergency evacuation plan. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the Wildfire section of the pending EIR.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires? (Potentially Significant)

The proposed project could result in potentially significant impacts related to wildland fire hazards. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the Wildfire section of the pending EIR.

Consequently, impacts related to hazards and hazardous materials (other than those related to emergency response, evacuation, and wildland fires) would be less than significant and therefore will not be discussed in the pending EIR. As indicated above, emergency response, evacuation and wildland fire hazards will be analyzed further in the Wildfire section of the pending EIR.

2.10 HYDROLOGY AND WATER QUALITY

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
X.	**HYDROLOGY AND WATER QUALITY – Would the project:**				
a)	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b)	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
	i) result in substantial erosion or siltation on or off site;	☐	☐	☒	☐
	ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site;	☐	☐	☒	☐
	iii) 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; or	☐	☐	☒	☐
	iv) impede or redirect flood flows?	☐	☐	☒	☐
d)	In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e)	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

2.10.1 ENVIRONMENTAL SETTING

The project site lies within the Strawberry Creek Watershed. This relatively small watershed of 3.0 square miles begins on the western slope of the Berkeley hills with a series of small springs and tributaries, including North Fork

and Hamilton Gulch. The watershed flows in a westward direction through Berkeley, eventually emptying into the San Francisco Bay near University Avenue (Alameda County Flood Control & Water Conservation District 2022).

UC Berkeley owns and operates its own stormwater system, which consists of drain inlets, catch basins, manholes, storm drainpipes, outlets to Strawberry Creek, and culverts along the creek. The stormwater system also includes green infrastructure features, such as detention ponds, vegetated bioswales, storage vaults, rain gardens, and green roofs. Stormwater from the project site is collected by UC Berkeley's internal storm drain network and eventually discharges to the City of Berkeley's storm drain system.

The project is not underlain by a groundwater basin (DWR 2022) and no groundwater was encountered in exploratory borings at the project site during the geotechnical investigation (A3GEO 2018). According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), the project site is located in an area of minimal flood hazard (Zone X) (FEMA 2022).

2.10.2 DISCUSSION

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? (Less than Significant)

The Federal Clean Water Act and California's Porter-Cologne Water Quality Control Act are the primary water quality laws. Regulations set forth by the EPA and the SWRCB have been developed to fulfill the requirements of this legislation. EPA's regulations include the NPDES permit program, which controls sources that discharge pollutants into the waters of the United States (e.g., streams, lakes, bays, etc.). These regulations are implemented at the regional level by the water quality control boards. The San Francisco Bay Regional Water Quality Control Board (San Francisco Bay RWCQB) is the agency that has jurisdiction over the project site and surrounding areas. The SWRCB has implemented a NPDES Construction General Permit for the State of California. For projects disturbing 1 acre or more of soil, a Notice of Intent (NOI) and SWPPP must be prepared prior to commencement of construction. Because the proposed project would disturb more than 1 acre of soil, it is subject to the Construction General Permit. UC Berkeley is also subject to the waste discharge requirements for the Phase II Non-Traditional Small Municipal Separate Storm Sewer Systems (MS4) Permit (Order No. 2013-0001-DWQ, NPDES Permit No. CAS000004) with the last amendment, Order No. WQ 2018-0007-EXEC, issued in March 2018.

Construction of the proposed project would result in short-term soil-disturbing activities that could lead to increased erosion and sedimentation. However, the project would comply with the NPDES Construction General Permit, including the development and implementation of a SWPPP, which describes BMPs that UC Berkeley would use to protect stormwater runoff. The SWPPP would include appropriate erosion-control and water-quality-control measures during site preparation, grading, construction, and post-construction. The project would also comply with the Phase II Small MS4 Permit and incorporate low-impact development (LID) treatment controls and BMPs to address post-construction stormwater runoff to meet waste discharge requirements, such as biotreatment facilities and other hydromodification features. Compliance with the NPDES requirements above are incorporated into the University CBPs listed here, as part of the proposed project:

- **CBP HYD-1:** During the plan check review process and construction phase monitoring, UC Berkeley Office of Environment, Health & Safety will review each development project to determine whether project runoff would increase pollutant loading and verify that the proposed project complies with all applicable requirements (e.g., Regional Water Quality Control Board and Campus Design

Standards requirements) and best management practices (e.g., those described in the California Stormwater Quality Association's Construction BMP Handbook).

- **CBP HYD-2**: UC Berkeley will continue implementing an urban runoff management program containing best management practices, as published in the Strawberry Creek Management Plan, and as developed through the Stormwater Permit Annual Reports completed for the Phase II municipal separate storm sewer system (MS4) permit. UC Berkeley will continue to comply with the MS4 stormwater permitting requirements by implementing construction and post-construction control measures and best management practices required by project-specific Stormwater Pollution Prevention Plans (SWPPPs) and by the Phase II MS4 permit to control pollution. SWPPPs will be prepared by the project contractor as required to prevent discharge of pollutants and to minimize sedimentation resulting from construction and the transport of soils by construction vehicles.

For these reasons, the proposed project would minimize erosion and related impacts on water quality, such that construction and operational impacts would be less than significant.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? (Less than Significant)

The East Bay Municipal Utility District (EBMUD) supplies water to the project site and would continue to serve the project site. EBMUD's Urban Water Management Plan (UWMP) (EBMUD 2021a) anticipates future growth in the region that includes the proposed project, as allowed under existing land use and zoning designations. EBMUD currently uses surface water primarily from the Mokelumne River, with supplemental water supply from East Bay area watersheds. Therefore, no incremental increase in demand on groundwater supplies would occur as a result of the proposed project, as EBMUD does not use groundwater as a source of water.

The project site is located outside of the East Bay Plain Subbasin (California Department of Water Resources [DWR] groundwater basin number 2-009.04), which underlies portions of the cities of Berkeley, Oakland, and other East Bay municipalities. This subbasin is in a sustainable condition, as described in hydrology impact question (e) below and is not currently used as a source of water supply. Regardless, the proposed project would not interfere substantially with groundwater recharge as it would result in a net increase in the amount of pervious surface by approximately 8,200 square feet compared to existing conditions, due to the increased size of the field. Because the proposed project would be served by a water utility with sufficient supply that does not extract groundwater, and would not interfere substantially with groundwater recharge, the impact of the proposed project related to groundwater would be less than significant.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) result in substantial erosion or siltation on or off site; (Less than Significant)

and

ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site; (Less than Significant)

Construction activities would entail grading, excavation, and other ground-disturbing activities, which could temporarily alter surface drainage patterns and increase the potential for flooding, erosion, or siltation. Once operational, the proposed project would increase the pervious surface area on the project site by approximately 8,200 square feet. New drainage infrastructure would be included in the proposed project to accommodate stormwater flows and connect the project to existing storm drain infrastructure. The project involves several new stormwater components that would improve drainage, including: a new six-inch perforated drainpipe that would be installed along the perimeter of the softball field outfield; multiple new subsurface 24-inch diameter drain basins that would be installed throughout the project site; multiple new non-perforated storm drainpipes throughout the project site to connect stormwater infrastructure (i.e., catch basins, roof runoff, trench drain, and outfalls); and, an underground retention chamber that would be installed under the softball field infield. The field drainage system is designed to collect stormwater that falls directly on the field by sloping toward the perimeter subdrain and swale. In combination with on-site retention and stormwater collection, implementation of the project would decrease the rate and volume of surface runoff. Stormwater hardscape runoff would be treated on site prior to release into the existing stormwater system, which would continue to discharge into Strawberry Creek

As discussed above in hydrology impact question (a), the proposed project would be required to comply with the NPDES Construction General Permit and Phase II MS4 Permit, which would require implementation of BMPs, erosion control measures, and LID treatment controls, thereby reducing the effects of project construction and operation on erosion and drainage patterns. Therefore, the proposed project impact related to alteration of drainage patterns would be less than significant.

iii) 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; or (Less than Significant)

As discussed above, the proposed project would be required to comply with the NPDES Construction General Permit and Phase II MS4 Permit, which would require implementation of BMPs, erosion control measures, and LID treatment controls, thereby reducing the effects of project construction and operation on erosion and drainage patterns. Compliance with NPDES regulations would ensure that the proposed project impact related to exceeding capacity of stormwater drainage systems and contributing additional sources of polluted runoff would be less than significant.

iv) impede or redirect flood flows? (Less than Significant)

The project site is not located within a flood zone. As described above, the project site is located within an area of minimal flood hazard (Zone X). Therefore, the proposed project impact related to flooding would be less than significant.

d) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation? (No Impact)

Tsunamis are sea waves that are generated in response to large-magnitude earthquakes. When these waves reach shorelines, they sometimes produce coastal flooding. Seiches are the oscillation of large bodies of standing water, such as lakes, that can occur in response to ground shaking. The project site is not within a flood zone or the inundation zone of any dams or tsunamis and there are no large bodies of water in the vicinity that could pose a seiche hazard. Therefore, the proposed project would result in no impacts related to flood hazards, tsunamis, or seiches.

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? (Less than Significant)

The project would be served by EBMUD, which maintains a UWMP (EBMUD 2021a). This plan contains water quality goals more stringent than regulatory standards. EBMUD utilizes water treatment plants to ensure water quality standards and goals are met. Implementation of the proposed project would not interfere with the ability of EBMUD to maintain water quality standards, as described in the UWMP. The project would not result in a significant increase in the amount of potable water used annually as compared to existing conditions, given that attendance of softball games is not expected to substantially increase with the project. With the implementation of the project, potable water use is not expected to substantially increase, based on the addition of team lockers, restrooms, concessions, and water-using devices in the new building. See Section 2.19, Utilities and Service Systems, impact question (b) for additional information on project water demand.

Furthermore, as described in hydrology impact question (a) above, the proposed project would be required to comply with the NPDES Phase II MS4 permit requiring runoff to be treated using LID treatment controls such as biotreatment facilities and other hydromodification features to improve stormwater quality, and the NPDES Construction General Permit requiring the development and implementation of a SWPPP, which provides BMPs to control erosion and water quality.

The Sustainable Groundwater Management Act (SGMA) of 2014 requires local public agencies and Groundwater Sustainability Agencies (GSAs) in high- and medium-priority basins to develop and implement Groundwater Sustainability Plans (GSPs). The East Bay Plain Subbasin (EBP Subbasin) GSP was prepared and released by EBMUD and the City of Hayward in September 2021 for review and finalized and released in January of 2022 (EBMUD and City of Hayward 2022). A summary of this GSP is provided below based on the Draft GSP.

EBMUD and the City of Hayward are the GSAs for the EBP Subbasin. The EBP Subbasin extends across multiple jurisdictions, including the cities of Oakland and Berkeley, and consists of three major aquifer zones across the area. The project site is located just outside of the subbasin. Most high-yield production wells have been developed within the Deep Aquifer Zone and lower portion of the Intermediate Aquifer Zone in the southern EBP Subbasin. The Shallow Aquifer Zone and upper to middle portions of the Intermediate

Aquifer Zone have geologic conditions that tend to result in lower yielding wells. Groundwater pumping is much lower today (3,600 Acre Feet [AF]) than in the 1960s (>20,000 AF), and groundwater levels are stable, and the basin is sustainable. Overall, groundwater quality in the Intermediate Aquifer and Deep Aquifer is good, with contamination limited to the Shallow Aquifer where contaminants attributed to environmental sites are subject to clean up orders from the RWQCB and DTSC. No land subsidence or seawater intrusion have been reported to date.

The sustainability goal for the Plan area is to manage and protect the EBP Subbasin in a manner that avoids undesirable results while continuing to collect and analyze data to support science-based decision making to evaluate new opportunities for sustainable groundwater beneficial uses. SGMA requires that the GSAs consider six sustainability indicators in the GSPs (i.e., chronic lowering of groundwater levels, reduction of groundwater storage, seawater intrusion, land subsidence, degraded water quality, and depletion of interconnected surface water). Each have been assigned minimum thresholds and measurable objectives as set forth in this GSP to avoid undesirable results and ensure continued sustainable groundwater management of the EBP Subbasin over the planning and implementation horizon.

EBMUD and City of Hayward are committed to developing diverse water supply portfolios to help improve resiliency in the face of changing climate, water supply needs, and regulations. In addition to water conservation and recycled water, beneficial use of groundwater is an important potential source. The GSAs are also committed to maintaining sustainability within the EBP Subbasin, and the existing and potential future projects reflect the GSAs' desire to fill data gaps and let science-based decision-making drive the feasibility of future groundwater pumping. After sufficient data collection, future projects under consideration by EBMUD may include additional phases of Bayside, irrigation with groundwater, and the use of groundwater to supplement flows into San Leandro Creek that EBMUD voluntarily releases from Chabot Dam to approximate historic leakage flows. Potential future Hayward projects may include a well conversion study and a conjunctive use study.

The sustainability goal for the EBP Subbasin is already being achieved, which has been the case since at least the 1970s. Over the next 20 years of the GSP implementation period, the sustainability goal will continue to be achieved by prudent and incremental use of existing approved groundwater injection and extraction facilities. At this time, the GSAs have no plans to expand groundwater injection/extraction facilities, but the GSAs will continue data collection to provide current baseline conditions and evaluate potential impacts of incremental greater use of existing facilities and potential new facilities.

The proposed project would not conflict with or obstruct implementation of the EBP Subbasin GSP, as the proposed project would be served by EBMUD, one of the GSAs overseeing this GSP, and as conditions in the EBP Subbasin are sustainable. Therefore, the proposed project impact related to conflicts with, or obstruction of water quality control plans or groundwater management plans would be less than significant.

Consequently, impacts related to hydrology and water quality would be less than significant and therefore will not be discussed in the pending EIR.

2.11 LAND USE AND PLANNING

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XI.	LAND USE AND PLANNING – Would the project:				
a)	Physically divide an established community?	☐	☐	☐	☒
b)	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

2.11.1 ENVIRONMENTAL SETTING

The university is constitutionally exempt from local land use regulations, such as city and county general plans, land use policies, and zoning regulations when using its property in furtherance of its educational mission. Pursuant to UC's constitutional autonomy, UC Berkeley is the only agency with land use jurisdiction over campus projects.

Each campus in the UC system periodically prepares an LRDP, which provides a high-level planning framework to guide land use and capital investment in line with its mission, priorities, strategic goals, and enrollment projections. The purpose of an LRDP is to provide adequate planning capacity for potential population growth and physical infrastructure that may be needed to support future population levels on each UC campus. The LRDP does not mandate growth or the provision of new facilities. The current LRDP for UC Berkeley is the 2021 LRDP which was adopted in July 2021; it includes projected development needs through the academic year 2036-37.

The project site is located in the Strawberry Canyon Recreation Area at the site of the existing Cal Softball Field. The location is within the Hill Campus West land use zone, south of the Hill Campus East land use zone, and northeast of the City Environs land use zone, as identified in the 2021 LRDP (UC Berkeley 2021b). The project site is surrounded by Hill Campus West land use zones to the north, west, and south.

Witter Rugby Field is directly to the west of the project site, and Strawberry Canyon Pool and the Haas Clubhouse are to the northeast. California Memorial Stadium is located at the terminus of Centennial Drive to the west. Immediately south of the project site is a densely wooded area, which includes an unnamed recreational trail running eastward up into the Hill Campus East from the western end of Canyon Road. Beyond the wooded area to the south of the project site is the Panoramic Hill residential neighborhood.

Land use types in the Hill Campus West land use zone include residential, athletics and recreation facilities (including but not limited to the Cal Softball Field) and the Hearst Greek Theater. The Cal Softball field is identified as an existing use in LRDP Figure 1.3, Existing Buildings, and is shown in LRDP Figure 3.4, Landscape and Open Space Framework. There is limited development potential within the Hill Campus West due to its steep terrain. New uses would be accommodated primarily through the renovation, expansion, or replacement of existing facilities, such as is being contemplated by the proposed project. The LRDP provides two land use objectives for the Hill Campus West land use zone:

- Support and maintain the existing housing and campus life facilities in the Hill Campus West with selective renovation, expansion, or redevelopment on previously developed sites. Land uses in this zone should leverage its proximity to the Campus Park.

- Prioritize projects that improve the landscape and circulation in the area, and that address life-safety concerns, particularly those related to seismic safety and wildfire prevention.

UC requires every campus to have a Physical Design Framework. The UC Berkeley Physical Design Framework is an advisory guidance document intended to convey a set of design intentions, rather than prescriptive regulations or mandates, and is used by the campus Design Review Committee when reviewing a project's design (UC Berkeley 2021e). While campuses are required to consider the Framework's guidelines and principles in developing their projects, a project is not required to be consistent with every guideline in the Framework.

UC Berkeley also created the Campus Design Standards to guide design and construction professionals to complete lasting, high-quality additions to the UC Berkeley built environment. The Campus Design Standards, along with applicable codes such as the California Building Code, ensure that new construction and renovation projects at UC Berkeley integrate industry best practices and experience with existing campus buildings, infrastructure, grounds, and maintenance issues. The Campus Design Standards, which are administered by the Campus Building Department, include requirements for building materials, lighting, glass and glazing, screening, planting, and more.

2.11.2 DISCUSSION

a) Would the project physically divide and established community? (No Impact)

The proposed project would not physically divide an established community. The project involves the renovation of an existing IA softball field. Other project components involve landscaping and driveway and utility improvements. The project site is currently developed with the Cal Softball Field and Witter Lot; changes resulting from the project would only occur on the existing softball field, the parking lot, and the areas immediately surrounding the field. The project would not introduce a new linear element within the landscape, such as a freeway or other type of barrier that could divide an existing community. Therefore, the project would have no impact related to physically dividing an established community.

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? (Less than Significant Impact)

Implementation of the project would not conflict with any land use plan, policy, or regulation. The project would be constructed entirely on UC Berkeley property and therefore would be under the land use jurisdiction of the University of California and the Regents. As noted above, the university is constitutionally exempt from local land use regulations, such as city and county general plans, land use policies, and zoning regulations when using its property in furtherance of its educational mission.

The project would result in the continued use of the site for IA softball and recreational purposes. The project would not alter any existing land use associated with the project site and would be consistent with the Hill Campus West land use zone designation as identified in the 2021 LRDP. The existing and proposed land use would fall under the athletics and recreation land use definition within the LRDP: "Uses that support athletics and recreation programs and activities, such as indoor and outdoor general recreation facilities, and athletics practice and competition venues." This land use designation is specifically included in 2021 LRDP Hill Campus land use zone under the Land Use Element.

UC Berkeley's planning guidelines, including the Physical Design Framework, guide design of development throughout the campus. The project was reviewed by the UC Berkeley Design Review Committee in July,

October, and December of 2018 (per CBP AES-2) during which the Physical Design Framework, Campus Design Standards and relevant CBPs were considered. Design review presentations included views of the new design, discussion of the building's program, description of materials, and treatment of the building exterior. Comments received were reviewed with the project design team. The Design Review Committee was primarily concerned with the architectural expression of the new building's main structure on Centennial Drive, as well as its relationship to the surrounding forested hillside. The proposed design was refined to ensure that the structure was respectful of the site context, as well as presented a positive architectural expression compatible for institutional uses. The Design Review Committee recommended retaining the existing orientation of the Cal Softball Field and maximizing vegetation around the field. The entryway design would encompass naturalistic planting of trees and ground plants. These recommendations have been incorporated into the project design.

Additionally, as part of the proposed project, UC Berkeley would implement the land use (LU) and aesthetics (AES) CBPs listed here:

- **CBP LU-2:** Each individual project built in the Hill Campus West, Hill Campus East, or the City Environs Properties under the LRDP will be assessed to determine whether it could pose potential significant land use impacts not anticipated in the LRDP, and if so, the project would be subject to further evaluation under the California Environmental Quality Act.
- **CBP AES-1:** New projects will as a general rule conform to the Physical Design Framework. While the guidelines in the Physical Design Framework would not preclude alternate design concepts when such concepts present the best solution for a particular site, UC Berkeley will not depart from the Physical Design Framework except for solutions of extraordinary quality.
- **CBP AES-2:** Major new campus projects will continue to be reviewed at each stage of design by the UC Berkeley Design Review Committee. The provisions of the LRDP, as well as project-specific design guidelines prepared for each such project, will guide these reviews.

These CBPs would minimize land use impacts by providing for design review and conformance with the Physical Design Framework and Campus Design Standards. The CBPs would not create additional land use impacts. No habitat conservation plans apply to the UC Berkeley campus or the project site.

For these reasons, proposed project impacts would be less than significant related to conflicts with adopted plans or policies from construction and operation of the project.

Consequently, impacts related to land use and planning would be less than significant and therefore will not be discussed in the pending EIR.

2.12 MINERAL RESOURCES

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XII.	**MINERAL RESOURCES – Would the project:**				
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?	☐	☐	☐	☒

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒

2.12.1 ENVIRONMENTAL SETTING

The California Geological Survey is responsible for classifying land into Mineral Resource Zones (MRZs) under the Surface Mining Control and Reclamation Act (SMARA) based on the known or inferred mineral resource potential of that land. The following MRZ categories are used to classify land:

- MRZ-1: Areas where adequate information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence.
- MRZ-2: Areas where adequate information indicates that significant mineral deposits are present, or where it is judged that a high likelihood exists for their presence.
- MRZ-3: Areas containing mineral deposits, the significance of which cannot be evaluated from available data.
- MRZ-4: Areas where available information is inadequate for assignment to any other MRZ.

The 2021 LRDP EIR concluded that there are no areas on campus with development potential that contain mineral resources where there is adequate information indicating significant mineral deposits or the high likelihood of significant mineral deposits (UC Berkeley 2021c). No mineral resource recovery sites are identified in the City of Berkeley (City of Berkeley 2009).

2.12.2 DISCUSSION

a) Would the project 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? (No Impact)

and

b) Would the project 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? (No Impact)

As described above, the campus, which includes the project site, does not contain mineral resources where there is adequate information indicating significant mineral deposits or the high likelihood of significant mineral deposits. Therefore, the proposed project would have no impact on known or locally important mineral resources.

Consequently, there would be no impacts regarding mineral resources and this issue will not be discussed in the pending EIR.

2.13 NOISE

Implementation of the project would result in construction and operational activities that could result in potentially significant noise or vibration impacts. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the pending EIR.

2.14 POPULATION AND HOUSING

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV.	**POPULATION AND HOUSING – Would the project:**				
a)	Induce substantial unplanned 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)?	☐	☐	☒	☐
b)	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

2.14.1 ENVIRONMENTAL SETTING

According to the State of California Department of Finance (DOF), the City of Berkeley had a population of 124,563 in 2022, and a total of 52,921 housing units (DOF 2022). UC Berkeley enrollment for academic year 2018-2019 included 29,932 undergraduate students and 9,776 graduate students (UC Berkeley 2021c).

2.14.2 DISCUSSION

a) Would the project induce substantial unplanned 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)? (Less than Significant)

The proposed project would serve the existing level of UC Berkeley student enrollment and would not result in the hiring of new faculty or staff, as it would serve existing athletic and recreation programs on campus. Although the project would generate a limited number of short-term construction jobs, these jobs would be accommodated within the regional workforce and would not require substantial relocation of workers. The project does not include any residential uses or improvements to off-site infrastructure such as a roadways or utilities that could indirectly induce population growth. Therefore, the proposed project impact related to inducement of unplanned population growth would be less than significant.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? (No Impact)

The project site does not contain existing housing units; therefore, the proposed project would not displace people or housing, necessitating the construction of replacement housing elsewhere. No impact would occur.

Consequently, impacts related to population and housing would be less than significant and therefore will not be discussed in the pending EIR.

2.15 PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES				
a) Would the project 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 other performance objectives for any of the public services:				
Fire protection?	☐	☐	☒	☐
Police protection?	☐	☐	☒	☐
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

2.15.1 ENVIRONMENTAL SETTING

UC Berkeley does not have its own fire department or firefighting capabilities. For emergencies, UC Berkeley relies on response from Oakland Fire Department (OFD), Berkeley Fire Department (BFD), Moraga-Orinda Fire District, Alameda County Fire Department (ACFD), and/or California Department of Forestry and Fire Protection, depending on the area and severity of impact, and closest first responders available (UC Berkeley, 2021c).

BFD currently has seven fire stations and the Hill Campus West, which includes the project site, is in BFD Fire Response District 2 (Station 2, located on Berkeley Way) (UC Berkeley, 2021c). The City of Berkeley Adopted Biennial Budget for Fiscal Years 2020 and 2021 provides for 153 full-time-equivalent employees for the BFD (UC Berkeley 2021c).

The University of California Police Department (UCPD) provides police services to all UC Berkeley properties. UCPD operations consist of patrol, investigations, special events, and crime prevention. As of 2020, UCPD had a staff of 48 sworn police officers and 50 professional staff members (UC Berkeley 2021c).

The UC Berkeley campus is located within the Berkeley Unified School District (BUSD) service boundary. Berkeley Public Schools are comprised of 3 preschools, 11 elementary schools, 3 middle schools, 1 large comprehensive high school, 1 continuation high school and 1 adult school (BUSD 2022). The nearest BUSD school to the project site is the Emerson Elementary School, located approximately 0.75 mile to the south.

There are no public parks within Hill Campus West of UC Berkeley. The area to the east of the project site contains recreational trails that connect 208-acre Claremont Canyon Regional Preserve, managed by the East Bay Regional Parks District. Approximately 0.5 miles northeast of the project site is the UC Berkeley Botanical Garden which is a 34-acre garden that is open to the public.

2.15.2 DISCUSSION

a) Would the project 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 other performance objectives for any of the public services:

Fire and police protection? (Less than Significant)

The BFD and UCPD currently support the project site and would continue to provide fire and police protection services to the project site. During emergencies, other agencies may also be involved depending on severity of impact, and closest first responders available, as described in Section 1.15.1, Environmental Setting. The proposed project would not result in population growth within the area (see Section 2.14, Population and Housing). The use of the proposed project would be similar to the use of the existing softball field. The proposed project would somewhat increase the number of spectators associated with softball IA competitive events, as spectator seats would increase from approximately 1,340 to 1,511. The number of such competitive events would also somewhat increase from 15 to 20 events under existing conditions, to up to 25 events, if UC Berkeley is successful and plays in post-season competitive events. The proposed project would not otherwise substantially increase the overall use of the project site for recreational uses. Therefore, given that the proposed project would not result in population growth and would result in similar operations as under existing conditions, it would not result in increased demand for fire or police protection services on the campus and would not result in the need for new or physically altered fire or police protection facilities and the impact would be less than significant.

Schools, parks, and other public facilities? (No Impact)

Because the proposed project would serve the existing UC Berkeley enrollment levels and would not result in the generation of new students or the hiring of new employees, the project would not result in substantial school, park, or other public services impacts, as the project site would continue to support existing activities on campus. As the demand for services would not substantially increase, the proposed project would not result in the need for new or physically altered schools, parks, or other public facilities and no impact would occur.

Consequently, impacts related to public services would be less than significant and therefore will not be discussed in the pending EIR.

2.16 RECREATION

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION				
a) Would the project 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?	☐	☐	☒	☐

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

2.16.1 ENVIRONMENTAL SETTING

The project site contains the existing Cal Softball Field, which is the home for the UC Berkeley IA Women's Softball Program. Witter Rugby Field is directly to the west of the project site, and Strawberry Canyon Pool and the Haas Clubhouse are to the northeast. In addition, immediately south of the project site is a densely wooded area, which includes an unnamed recreational trail running eastward up into the Hill Campus East from the western end of Canyon Road.

2.16.2 DISCUSSION

a) Would the project 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? (Less than Significant)

The proposed project does not include residential land uses and would not increase population and, hence, demand for parks and recreational facilities would not increase. As the project would only involve improvements to the existing Cal Softball Field, which currently is used for softball practice, softball games, and other sports activities, it would not create increased demand for recreational facilities outside the project area. UC Berkeley IA and Rec Sports would coordinate scheduling to ensure access to the softball field and facilities is available to the students in an efficient manner. Therefore, implementation of the proposed project would not result in significant use of off-campus parks or recreational facilities or generate the need for new or expanded recreational facilities and therefore the impact would be less than significant.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment? (Less than Significant)

The proposed project includes improvement of the existing IA softball field to support UC Berkeley's compliance with Title IX. Potential environmental impacts of the proposed project are discussed, evaluated, and identified throughout this Initial Study and most were determined to be less than significant. An EIR will be prepared for the proposed project to evaluate potentially significant impacts in detail, including impacts related to aesthetics, biological resources, cultural and tribal cultural resources, paleontological resources, noise, transportation, and wildfire.

Consequently, impacts related to the deterioration of recreational facilities would be less than significant and therefore will not be discussed in the pending EIR. As noted above, the pending EIR will evaluate potentially significant impacts in detail related to the construction and operation of proposed project, which is considered a recreational facility, as described under recreation impact question (b) above.

2.17 TRANSPORTATION

Implementation of the project would result in construction and operational activities that could result in potentially significant transportation impacts related to conflicts with transportation plans, ordinances, or policies; vehicle miles traveled; transportation hazards due to project design features; and inadequate emergency access. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the pending EIR.

2.18 TRIBAL CULTURAL RESOURCES

Implementation of the project would result in construction and operational activities that could cause a substantial adverse change in the significance of tribal cultural resources. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the pending EIR. This topic will be evaluated in the Cultural and Tribal Cultural Resources section in the pending EIR.

2.19 UTILITIES AND SERVICE SYSTEMS

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX.	**UTILITIES AND SERVICE SYSTEMS – Would the project:**				
a)	Require or result in the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐
c)	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?	☐	☐	☒	☐
d)	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e)	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

2.19.1 ENVIRONMENTAL SETTING

Water Supply

Potable water is supplied to UC Berkeley by the EBMUD, and domestic and fire water system are served by connections from EBMUD mains in the surrounding streets. EBMUD's water supply system consists of a network of reservoirs, aqueducts, pipelines, water treatment plants, pumping plants, and other distribution facilities and pipelines that convey Mokelumne River water from Pardee Reservoir to EBMUD customers. The Orinda Water Treatment Plant serves all or parts of the cities of Alameda, Albany, Berkeley, El Cerrito, Emeryville, Moraga, Oakland, Orinda, Piedmont, Richmond and San Leandro. The plant has maximum capacity of 200 MGD (UC Berkeley 2021c).

After the water is treated, it is distributed throughout EBMUD's service area, which is divided into more than 130 pressure zones ranging in elevation from sea level to 1,450 feet above mean sea level. Approximately 50 percent of treated water is distributed to customers purely by gravity. The water distribution network includes 4,200 miles of pipe, 125 pumping plants, and 165 water distribution reservoirs. UC Berkeley is in EBMUD's Berryman, Stonewall, and Summit pressure zones (UC Berkeley 2021c). The project site is connected into EBMUD's higher-pressure zone (Summit pressure zone) (EBMUD 2020).

During drought conditions the Mokelumne River and local runoff cannot meet EBMUD's customer demands, even with mandatory water use restrictions. Furthermore, EBMUD's Mokelumne River supply is expected to be reduced as demands on the Mokelumne River increase from the growing needs of users in Amador, Calaveras, and San Joaquin counties with water rights that predate those of EBMUD. EBMUD has identified additional sources of water supply to meet long term demand. In 1970, EBMUD executed a contract with the United States Bureau of Reclamation (USBR) for delivery of Central Valley Project water from the American River. EBMUD's current contract with USBR provides for delivery of up to 133,000 AF in a single qualifying year, not to exceed a total of 165,000 AF in three consecutive qualifying years. In addition, EBMUD is partnering with the Placer County Water Agency on developing a long-term transfer agreement and is working with the Yuba County Water Agency on opportunities to purchase transfer water during dry years. EBMUD has also completed Phase 1 of the Bayside Groundwater Project that enables EBMUD to inject drinking water into the East Bay Plan groundwater basin during wet years and extract, treat, and distribute the groundwater as a supplemental supply during drought periods. EBMUD also reached an agreement with Contra Costa Water District to use storage space in the recently expanded Los Vaqueros Reservoir, with the option of purchasing up to 2,000 acre-feet of water (UC Berkeley 2021c).

Wastewater

EBMUD provides wastewater collection via the EBMUD sewer interceptors and wastewater treatment for the entire UC Berkeley campus. UC Berkeley pays EBMUD an annual NPDES permit fee, a monthly monitoring and testing charge, and a bimonthly wastewater treatment charge.

UC Berkeley operates and maintains its own sanitary sewer collection system that serves the Campus Park, the Clark Kerr Campus, the Hill Campus West and the Hill Campus East. Wastewater from the Hill Campus West and the City Environs properties discharge directly into the City of Berkeley sewer mains located in adjacent streets, where it flows to EBMUD's Main Wastewater Treatment Plant (MWWTP) in the City of Oakland.

The MWWTP has a primary treatment capacity of 320 million gallons per day (mgd) and a secondary treatment capacity of 168 mgd. Storage basins provide plant capacity for a short-term hydraulic peak of 415 mgd (EBMUD 2022). The average annual daily flow into the MWWTP is approximately 60 mgd (EBMUD 2021b), representing approximately 20% of the MWWTP's primary treatment capacity and approximately 38% of the MWWTP's secondary

treatment capacity. The treated effluent is disinfected and dechlorinated before being discharged into San Francisco Bay, approximately 1 mile off the East Bay shore (EBMUD 2021b).

Stormwater

The storm drain system maintained and operated by UC Berkeley encompasses the Campus Park, the Clark Kerr Campus, the Hill Campus West, and the Hill Campus East. Stormwater from the project site, which is within the Hill Campus West, is collected by UC Berkeley's internal storm drain network and eventually discharges to the City of Berkeley's storm drain system, which flows into the underground culverted Derby Creek.

Solid Waste

UC Berkeley provides solid waste collection and recycling services to the project site and campus wide. Cal Zero Waste operates trucks that collect UC Berkeley landfill waste, recyclables (paper and cardboard), and compost, and manages most vendor contracts for off-site hauling services for landfill materials, green waste, concrete, metal roll-offs, bottle and can pick-ups, and metals. All waste materials are transported off campus to facilities for processing. Landfill waste is transported to the Golden Bear Transfer Station in Richmond. It is then consolidated and hauled to Keller Canyon Landfill near Pittsburg.

The Keller Canyon Landfill has a permitted throughput of 3,500 tons per day with a maximum permitted capacity of 75,018,280 cubic yards and is projected to continue operation through December 2050 when it is expected to reach capacity and would have to be closed (CalRecycle 2022). As of November 2004, the remaining capacity at the Keller Canyon Landfill is 63,408,410 cy (CalRecycle 2022).

Electric Power, Natural Gas, and Telecommunications

UC Berkeley's utility infrastructure includes an interconnected system with electricity and natural gas provided by PG&E, as well as power to some sites provided by EBCE and the University of California wholesale power program; on-campus photovoltaic (PV) arrays; in-building chillers; a cogeneration plant on the Campus Park to produce steam and electricity that is powered by natural gas; and a steam plant on the Clark Kerr Campus. UC Berkeley's cogeneration plant provides approximately 90% of the electricity and 100% of the steam needs for the Campus Park and includes distribution infrastructure servicing approximately 120 UC Berkeley buildings.

2.19.2 DISCUSSION

a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? (Less than Significant)

The project would be connected through new service connections to existing electrical, water, sewer, storm drainage, and telecommunications systems and infrastructure located near the project site. In comparison to the existing use, the proposed project, which includes an improved softball field facility would generate a marginal increase in the demand for water supply, wastewater treatment, electric power, and telecommunications facilities. New drainage infrastructure would be included in the proposed project to accommodate stormwater flows and connect the project to existing storm drain infrastructure. While the proposed project would require new service connections, it would not require new or expanded off-site water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities to adequately serve the project. The proposed project would be required to meet the energy

efficiency and green facility standards of the University of California Sustainable Practices Policy, the UC Berkeley Energy Use Policy, and the UC Berkeley Campus Design Standards. At a minimum, the project would be designed and constructed to the U.S. Green Building Council's LEED BD+C Silver Certification. Consistent with university carbon-free sustainability practices, the new concourse building would incorporate passive cooling, high solar reflectance surfaces, natural daylighting, radiant heat, low-flow fixtures, recycled materials, and LED lighting to reduce water and energy consumption.

Potential environmental impacts of the proposed project, including new utility connections, are discussed, evaluated, and identified throughout this Initial Study and most were determined to be less than significant. An EIR will be prepared for the proposed project to evaluate potentially significant impacts in detail, including impacts related to aesthetics, biological resources, cultural and tribal cultural resources, paleontological resources, noise, transportation, and wildfire.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years? (Less than Significant)

The proposed project would be served by the existing EBMUD water supply and distribution system. EBMUD supplies water to parts of Alameda and Contra Costa counties, including UC Berkeley. Approximately 1.4 million people are currently served by EBMUD's water system in a 332-square-mile area extending from Crockett to the north, San Lorenzo, Castro Valley and San Ramon to the south, San Francisco Bay to the west, and Walnut Creek to the east (UC Berkeley 2021c). The Orinda Water Treatment Plant serves all or parts of the cities of Alameda, Albany, Berkeley, El Cerrito, Emeryville, Moraga, Oakland, Orinda, Piedmont, Richmond and San Leandro. The plant has maximum capacity of 200 million gallons per day (mgd) (UC Berkeley 2021c).

No new water sources or entitlements would be required for the proposed project. The project would use a total of approximately 4.7 million gallons per year (mgy) or water; of which 3.6 mgy would be for indoor uses and 1.1 mgy would be used for outdoor uses such as irrigation. Due to the lack of readily available information about existing water use for the project site, the above estimates reflect total water use with the project and do not represent the net increase in water demand; therefore, the estimates reflect a very conservative estimate of the likely increase in water demand with the project. Additionally, both outdoor water use for landscape irrigation and indoor water use would be reduced by 20 to 35 percent below baseline use on a square footage basis through more efficient equipment and watering using low evaporation schedules. As water demand would not likely substantially increase with the proposed project, the capacity of EBMUD's system is adequate to serve the project. Regardless, as part of the proposed project, UC Berkeley would implement CBPs related to water supplies listed here, where warranted:

- **CBP USS-1:** For development that increases water demand, UC Berkeley will continue to evaluate the size of existing distribution lines as well as pressure of the specific feed affected by development on a project-by-project basis, and necessary improvements will be incorporated into the scope of work for each project to maintain current service and performance levels. The design of the water distribution system, including fire flow, for new buildings will be coordinated among UC Berkeley, the East Bay Municipal Utility District, and the City of Berkeley Public Works Department and Fire Department.
- **CBP USS-3:** UC Berkeley will continue to incorporate specific water conservation measures into project design to reduce water consumption and wastewater generation. This could include the use of special air-flow aerators, water-saving shower heads, flush cycle reducers, low-volume toilets, weather-based or evapotranspiration irrigation controllers, drip irrigation systems, and the use of

drought resistant plantings in landscaped areas, and collaboration with the East Bay Municipal Utility District to explore suitable uses of recycled water.

- **CBP USS-4:** UC Berkeley will analyze water and sewer systems on a project-by-project basis to determine specific capacity considerations for both UC Berkeley systems and off-site municipal systems in the planning of any project proposed under the LRDP.

Therefore, proposed project impacts related to water supply would be less than significant.

c) Would the project 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? (Less than Significant)

As discussed above, EBMUD provides wastewater collection and treatment for UC Berkeley. The proposed project would generate wastewater associated with the improved concourse building, which would be treated by the EBMUD MWWTP. The proposed new concourse building would be larger than the existing Cal Softball Field structure and attendance would somewhat increase. The project would generate approximately 3.6 mgy of wastewater. Due to the lack of readily available information about existing wastewater generation for the project site, the above estimate reflects total wastewater generation with the project and does not represent the net increase; therefore, the estimate reflects a very conservative estimate of the likely increase in wastewater generation with the project. Although the size of the structure and attendance would increase, wastewater generation would not likely substantially increase with the proposed project. Therefore, the proposed project would not generate wastewater exceeding the capacity of the EBMUD MWWTP and the impact to wastewater treatment capacity would be less than significant.

The proposed project would be served by the existing wastewater infrastructure near the project site with a new service connection provided for the softball concourse building. The proposed project would not likely generate substantially more wastewater than under existing conditions and modification or expansion of the EBMUD wastewater distribution system would not be expected to be required. It is expected that EBMUD would have available capacity and services to accommodate the proposed project. Regardless, as part of the proposed project, UC Berkeley would implement CBPs related to sewer services listed here, where warranted:

- **CBP USS-5:** Payments to service providers to help fund wastewater treatment or collection facilities will conform to Section 54999 of the California Government Code, including, but not limited to, the following provisions:
  - Fees will be limited to the cost of capital construction or expansion.
  - Fees will be imposed only after an agreement has been negotiated by UC Berkeley and the service provider.
  - The service provider must demonstrate the fee is nondiscriminatory: i.e., the fee must not exceed an amount determined on the basis of the same objective criteria and methodology applied to comparable nonpublic users, and must not exceed the proportionate share of the cost of the facilities of benefit to the entity property being charged, based upon the proportionate share of use of those facilities.
  - The service provider must demonstrate the amount of the fee does not exceed the amount necessary to provide capital facilities for which the fee is charged.

Because the wastewater generation is not expected to substantially increase with the project, modification or expansion of the EBMUD wastewater distribution and treatment system would not be required. For these reasons, the proposed project impact related to wastewater treatment capacity would be less than significant.

It should be noted that EBMUD submitted a comment letter in January of 2020 during the public review of an Addendum to the 2020 LRDP EIR for the proposed project (EBMUD 2020). The letter indicated that EBMUD's MWWTP and interceptor system are anticipated to have adequate dry weather capacity to accommodate and treat the wastewater flows from the proposed project; however, concerns were expressed about wet weather flows. The letter indicates that the East Bay regional wastewater collection system experiences exceptionally high peak flows during storms due to excessive stormwater infiltration and inflow (I/I) that enters the system through cracks and misconnections in both public and private sewer lines. Discharges from three Wet Weather Facilities (WWF) that have been historically operated to provide primary treatment and disinfection for peak wet weather flows that exceed the capacity of the MWWTP need to be eliminated by 2036, which requires actions be taken over time to reduce I/I in the system.

The EBMUD comment letter states that the lead agency should require the following mitigation measures to contribute to I/I reductions: (1) replace or rehabilitate any existing sanitary sewer collection systems, including sewer lateral lines to ensure that such systems and line are free from defects or, alternatively, disconnected from the sanitary sewer collection systems, including sewer lateral lines to ensure that such systems and lines are free from defects or, alternatively, disconnected from the sanitary sewer system, and (2) ensure any new wastewater collection systems, including sewer lateral lines, for the project are constructed to prevent I/I to the maximum extent feasible while meeting all requirements contained in the Regional Private Sewer Lateral Ordinance and applicable municipal codes or Satellite Agency ordinances.

The University acknowledges the above comments from EBMUD. The University is located in Berkeley and is not covered by EBMUD's Regional Private Sewer Lateral Program. The UC Berkeley is not subject to the Ordinance because it is a state agency. However, UC Berkeley understands the importance of minimizing stormwater I/I into the sanitary sewer and addressing sewer lateral rehabilitation. The campus is implementing a comprehensive program that is reflective of the same goals as the Regional Ordinance. As explained above, because the wastewater generation is not expected to substantially increase with the Project, modification or expansion of the EBMUD wastewater distribution and treatment system would not be required. As indicated previously, project impacts related to wastewater would be less than significant.

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? (Less than Significant)

Implementation of the proposed project would not generate solid waste in excess of existing standards, the capacity of local infrastructure, or otherwise impact the attainment of solid waste reduction goals. Solid waste is currently managed on campus by Cal Zero Waste. While the proposed project would result in an increase in solid waste generation over existing conditions, the Keller Canyon Landfill is expected to have capacity until 2050. Project construction and demolition activities would generate debris materials that would need to be removed from the site and recycled or disposed of. Project operation would generate a nominal amount of solid waste associated with practice and games. While average attendance fluctuates by season and team success, a modest increase in average attendance, maximum participants and spectators, and number of events, could result in a modest increase in solid waste generation over existing conditions. However, the amount of solid waste generated by the proposed project would constitute a negligible portion of the remaining available capacity of the Keller Canyon Landfill through 2050.

Regardless, as part of the proposed project, UC Berkeley would implement CBPs related to solid waste listed here, where warranted:

- **CBP USS-6:** UC Berkeley will continue to implement the Zero Waste requirements of the UC Sustainability Policy designed to reduce the total quantity of campus solid waste that is disposed of in landfills.
- **CBP USS-7:** In accordance with the CalGreen Code, and as required for Leadership in Energy and Environmental Design certification, contractors working for UC Berkeley will be required under their contracts to report their solid waste diversion according to UC Berkeley's waste management reporting requirements.

For these reasons, the proposed project impact related to landfill capacity would be less than significant.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste? (No Impact)

The proposed project would comply with all applicable regulations related to solid waste and no impact would occur.

Consequently, impacts related to utilities and service systems would be less than significant and therefore will not be discussed in the pending EIR. As noted above, the pending EIR will evaluate potentially significant impacts in detail related to the construction and operation of proposed project, including proposed utility improvements, as described under utilities impact question (a) above.

2.20 WILDFIRE

Implementation of the project would result in construction and operational activities that could result in potentially significant wildfire impacts related to substantial impairment of an emergency response plan or evacuation plan and wildfire risks. Further analysis is required to determine whether the project could potentially result in significant impacts; therefore, this topic will be analyzed further in the pending EIR.

2.21 MANDATORY FINDINGS OF SIGNIFICANCE

Implementation of the proposed project would result in construction and operational activities that could result in potentially significant impacts related to one or more of the CEQA Mandatory Findings of Significance. The CEQA Mandatory Findings of Significance include whether the project would: (1) 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; (2) have impacts that are individually limited, but cumulatively considerable; and (3) have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.

Regarding impact category (3), conclusions provided in this Initial Study indicate that the proposed project would not cause substantial adverse effects on human beings, either directly or indirectly, related to Air Quality, Geology and Soils, Hazards and Hazardous Materials, and Public Services (see Sections 2.3, 2.7, 2.9 and 2.19); however, such effects related to Noise will be analyzed in the pending EIR. Additionally, further analysis is required to determine whether the project could potentially result in significant impacts related to the other components of the CEQA Mandatory Findings of Significance; therefore, this topic will be analyzed further in the pending EIR.

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APPENDIX A-1

CalEEMod Outputs

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cal Softball Field Renovation Project - Max Day

Alameda County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.20	Acre	0.20	8,712.00	0
City Park	0.90	Acre	0.90	39,204.00	0
Health Club	60.43	1000sqft	1.01	60,429.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Cal Softball Field Renovation Project

Land Use - Proposed uses: 0.9 acre field (modeled as City Park), 60,429 sq ft of supportive buildings/structures (modeled as Health Club), and about 0.2 acres to be paved. ~2.11 acres to be graded

Construction Phase - Phase durations based on applicant input

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Default assumptions except for vendor truck trips added to Site Preparation and Grading phases to account for water trucks

On-road Fugitive Dust - Default

Demolition - 2,410 sf of buildings/structures and 66,030 sf of impermeable surface to be demolished

Grading - Total soil import of 2,219 CY

Architectural Coating - Default

Vehicle Trips - Worst-case net increase of 316 daily trips based on "Average Event Day" scenario

Consumer Products - Default

Area Coating - Default

Landscape Equipment - Default. Conservative since landscaping likely minimal based on synthetic turf field.

Energy Use - No natural gas demand for the project as indicated by the applicant

Water And Wastewater - Zeroed out outdoor water for the proposed buildings/structures. Retained outdoor water for the "City Park" as a conservative estimate for the project since the field will be synthetic turf

Solid Waste - Default

Construction Off-road Equipment Mitigation - BAAQMD BMPs: Watering 2x/day and limiting vehicle speeds on unpaved areas to 15 mph. UCB will also require Tier 4 Final for all equipment >= 50 hp

Mobile Land Use Mitigation -

Waste Mitigation - 54% waste diversion based on current campus average

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	168.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24NG	19.51	0.00
tblGrading	MaterialImported	0.00	2,219.00
tblLandUse	LandUseSquareFeet	60,430.00	60,429.00
tblLandUse	LotAcreage	1.39	1.01
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	1.96	351.40
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	2.19	351.40
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	0.78	351.40
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	OutdoorWaterUseRate	2,190,528.51	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	1.8601	20.4108	15.5509	0.0492	8.0288	0.6800	8.6857	3.6785	0.6360	4.2849	0.0000	5,074.8140	5,074.8140	0.7702	0.4764	5,234.5560
2024	63.5882	13.6504	15.3552	0.0318	0.4999	0.5446	1.0445	0.1354	0.5215	0.6569	0.0000	2,990.4451	2,990.4451	0.5446	0.0641	3,020.5277
Maximum	**63.5882**	**20.4108**	**15.5509**	**0.0492**	**8.0288**	**0.6800**	**8.6857**	**3.6785**	**0.6360**	**4.2849**	**0.0000**	**5,074.8140**	**5,074.8140**	**0.7702**	**0.4764**	**5,234.5560**

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					
2023	1.1080	7.0358	16.8152	0.0492	4.1103	0.1984	4.1966	1.7914	0.1981	1.8754	0.0000	5,074.8140	5,074.8140	0.7702	0.4764	5,234.5560
2024	63.4371	5.8277	16.6911	0.0318	0.4999	0.1754	0.6753	0.1354	0.1750	0.3104	0.0000	2,990.4451	2,990.4451	0.5446	0.0641	3,020.5277
Maximum	**63.4371**	**7.0358**	**16.8152**	**0.0492**	**4.1103**	**0.1984**	**4.1966**	**1.7914**	**0.1981**	**1.8754**	**0.0000**	**5,074.8140**	**5,074.8140**	**0.7702**	**0.4764**	**5,234.5560**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	N20	CO2e
Percent Reduction	1.38	62.23	-8.41	0.00	45.94	69.48	49.93	49.48	67.77	55.77	0.00	0.00	0.00	0.00	0.00	0.00

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
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	0.7694	0.7671	6.1135	0.0138	1.4216	9.8600e-003	1.4314	0.3786	9.1900e-003	0.3878		1,399.9605	1,399.9605	0.0818	0.0674	1,422.0924
Total	**2.2419**	**0.7672**	**6.1197**	**0.0138**	**1.4216**	**9.8800e-003**	**1.4315**	**0.3786**	**9.2100e-003**	**0.3878**		**1,399.9740**	**1,399.9740**	**0.0818**	**0.0674**	**1,422.1068**

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	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
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	0.7694	0.7671	6.1135	0.0138	1.4216	9.8600e-003	1.4314	0.3786	9.1900e-003	0.3878		1,399.9605	1,399.9605	0.0818	0.0674	1,422.0924
Total	**2.2419**	**0.7672**	**6.1197**	**0.0138**	**1.4216**	**9.8800e-003**	**1.4315**	**0.3786**	**9.2100e-003**	**0.3878**		**1,399.9740**	**1,399.9740**	**0.0818**	**0.0674**	**1,422.1068**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	N20	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	Demolition	Demolition	6/1/2023	6/28/2023	5	20	
2	Site Preparation	Site Preparation	6/29/2023	7/3/2023	5	3	
3	Grading	Grading	7/4/2023	7/11/2023	5	6	
4	Building Construction	Building Construction	7/12/2023	3/1/2024	5	168	
5	Paving	Paving	3/2/2024	3/15/2024	5	10	
6	Architectural Coating	Architectural Coating	3/16/2024	3/29/2024	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 90,644; Non-Residential Outdoor: 30,215; Striped Parking Area: 523 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	5	13.00	0.00	51.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	277.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	46.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

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					0.5536	0.0000	0.5536	0.0838	0.0000	0.0838			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**1.4725**	**14.3184**	**13.4577**	**0.0241**	**0.5536**	**0.6766**	**1.2302**	**0.0838**	**0.6328**	**0.7166**		**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	5.4100e-003	0.3227	0.0756	1.5200e-003	0.0447	2.8500e-003	0.0475	0.0123	2.7300e-003	0.0150		163.7139	163.7139	3.4800e-003	0.0259	171.5087
Vendor	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
Worker	0.0361	0.0206	0.3115	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.3961	94.3961	2.4500e-003	2.2800e-003	95.1366
Total	**0.0415**	**0.3433**	**0.3870**	**2.4500e-003**	**0.1515**	**3.3800e-003**	**0.1549**	**0.0406**	**3.2200e-003**	**0.0438**		**258.1100**	**258.1100**	**5.9300e-003**	**0.0282**	**266.6453**

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					0.2491	0.0000	0.2491	0.0377	0.0000	0.0377			0.0000			0.0000
Off-Road	0.2811	1.2179	14.7184	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**0.2811**	**1.2179**	**14.7184**	**0.0241**	**0.2491**	**0.0375**	**0.2866**	**0.0377**	**0.0375**	**0.0752**	**0.0000**	**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	5.4100e-003	0.3227	0.0756	1.5200e-003	0.0447	2.8500e-003	0.0475	0.0123	2.7300e-003	0.0150		163.7139	163.7139	3.4800e-003	0.0259	171.5087
Vendor	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
Worker	0.0361	0.0206	0.3115	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.3961	94.3961	2.4500e-003	2.2800e-003	95.1366
Total	**0.0415**	**0.3433**	**0.3870**	**2.4500e-003**	**0.1515**	**3.3800e-003**	**0.1549**	**0.0406**	**3.2200e-003**	**0.0438**		**258.1100**	**258.1100**	**5.9300e-003**	**0.0282**	**266.6453**

3.3 Site Preparation - 2023

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
Total	**1.3027**	**14.2802**	**9.7820**	**0.0245**	**1.5908**	**0.5419**	**2.1326**	**0.1718**	**0.4985**	**0.6703**		**2,374.8634**	**2,374.8634**	**0.7681**		**2,394.0654**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0000
Vendor	2.0700e-003	0.0843	0.0261	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.0000e-004	4.4100e-003		42.6167	42.6167	5.8000e-004	6.3800e-003	44.5319
Worker	0.0222	0.0127	0.1917	5.7000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		58.0899	58.0899	1.5100e-003	1.4000e-003	58.5456
Total	**0.0243**	**0.0970**	**0.2177**	**9.7000e-004**	**0.0793**	**8.6000e-004**	**0.0801**	**0.0213**	**8.0000e-004**	**0.0221**		**100.7067**	**100.7067**	**2.0900e-003**	**7.7800e-003**	**103.0775**

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					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	0.3008	1.3034	11.8595	0.0245		0.0401	0.0401		0.0401	0.0401	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
Total	**0.3008**	**1.3034**	**11.8595**	**0.0245**	**0.7158**	**0.0401**	**0.7559**	**0.0773**	**0.0401**	**0.1174**	**0.0000**	**2,374.8634**	**2,374.8634**	**0.7681**		**2,394.0654**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0000
Vendor	2.0700e-003	0.0843	0.0261	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.0000e-004	4.4100e-003		42.6167	42.6167	5.8000e-004	6.3800e-003	44.5319
Worker	0.0222	0.0127	0.1917	5.7000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		58.0899	58.0899	1.5100e-003	1.4000e-003	58.5456
Total	**0.0243**	**0.0970**	**0.2177**	**9.7000e-004**	**0.0793**	**8.6000e-004**	**0.0801**	**0.0213**	**8.0000e-004**	**0.0221**		**100.7067**	**100.7067**	**2.0900e-003**	**7.7800e-003**	**103.0775**

3.4 Grading - 2023

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					7.1244	0.0000	7.1244	3.4311	0.0000	3.4311			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**1.3330**	**14.4676**	**8.7038**	**0.0206**	**7.1244**	**0.6044**	**7.7288**	**3.4311**	**0.5560**	**3.9871**		**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.0980	5.8430	1.3684	0.0275	0.8087	0.0517	0.8603	0.2218	0.0494	0.2712		2,963.9702	2,963.9702	0.0630	0.4683	3,105.0918
Vendor	2.0700e-003	0.0843	0.0261	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.0000e-004	4.4100e-003		42.6167	42.6167	5.8000e-004	6.3800e-003	44.5319
Worker	0.0278	0.0158	0.2396	7.2000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		72.6124	72.6124	1.8900e-003	1.7500e-003	73.1820
Total	**0.1278**	**5.9431**	**1.6340**	**0.0286**	**0.9044**	**0.0526**	**0.9570**	**0.2474**	**0.0503**	**0.2978**		**3,079.1993**	**3,079.1993**	**0.0655**	**0.4764**	**3,222.8057**

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					3.2060	0.0000	3.2060	1.5440	0.0000	1.5440			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0206		0.0336	0.0336		0.0336	0.0336	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**0.2522**	**1.0927**	**10.9071**	**0.0206**	**3.2060**	**0.0336**	**3.2396**	**1.5440**	**0.0336**	**1.5776**	**0.0000**	**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.0980	5.8430	1.3684	0.0275	0.8087	0.0517	0.8603	0.2218	0.0494	0.2712		2,963.9702	2,963.9702	0.0630	0.4683	3,105.0918
Vendor	2.0700e-003	0.0843	0.0261	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.0000e-004	4.4100e-003		42.6167	42.6167	5.8000e-004	6.3800e-003	44.5319
Worker	0.0278	0.0158	0.2396	7.2000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		72.6124	72.6124	1.8900e-003	1.7500e-003	73.1820
Total	**0.1278**	**5.9431**	**1.6340**	**0.0286**	**0.9044**	**0.0526**	**0.9570**	**0.2474**	**0.0503**	**0.2978**		**3,079.1993**	**3,079.1993**	**0.0655**	**0.4764**	**3,222.8057**

3.5 Building Construction - 2023

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					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	**1.7136**	**13.6239**	**14.2145**	**0.0250**		**0.6136**	**0.6136**		**0.5880**	**0.5880**		**2,289.5233**	**2,289.5233**	**0.4330**		**2,300.3479**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0000
Vendor	0.0186	0.7590	0.2344	3.5900e-003	0.1220	4.7400e-003	0.1267	0.0351	4.5400e-003	0.0397		383.5506	383.5506	5.2500e-003	0.0574	400.7874
Worker	0.1279	0.0727	1.1020	3.3000e-003	0.3779	1.8900e-003	0.3798	0.1002	1.7400e-003	0.1020		334.0171	334.0171	8.6700e-003	8.0600e-003	336.6372
Total	**0.1465**	**0.8318**	**1.3365**	**6.8900e-003**	**0.4999**	**6.6300e-003**	**0.5065**	**0.1354**	**6.2800e-003**	**0.1416**		**717.5677**	**717.5677**	**0.0139**	**0.0655**	**737.4246**

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					
Off-Road	0.9615	5.1202	15.4788	0.0250		0.1918	0.1918		0.1918	0.1918	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	**0.9615**	**5.1202**	**15.4788**	**0.0250**		**0.1918**	**0.1918**		**0.1918**	**0.1918**	**0.0000**	**2,289.5233**	**2,289.5233**	**0.4330**		**2,300.3479**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0000
Vendor	0.0186	0.7590	0.2344	3.5900e-003	0.1220	4.7400e-003	0.1267	0.0351	4.5400e-003	0.0397		383.5506	383.5506	5.2500e-003	0.0574	400.7874
Worker	0.1279	0.0727	1.1020	3.3000e-003	0.3779	1.8900e-003	0.3798	0.1002	1.7400e-003	0.1020		334.0171	334.0171	8.6700e-003	8.0600e-003	336.6372
Total	**0.1465**	**0.8318**	**1.3365**	**6.8900e-003**	**0.4999**	**6.6300e-003**	**0.5065**	**0.1354**	**6.2800e-003**	**0.1416**		**717.5677**	**717.5677**	**0.0139**	**0.0655**	**737.4246**

3.5 Building Construction - 2024

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					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154
Total	**1.5971**	**12.8235**	**14.1002**	**0.0250**		**0.5381**	**0.5381**		**0.5153**	**0.5153**		**2,289.6541**	**2,289.6541**	**0.4265**		**2,300.3154**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0000
Vendor	0.0182	0.7620	0.2300	3.5400e-003	0.1220	4.7900e-003	0.1268	0.0351	4.5800e-003	0.0397		377.6307	377.6307	5.2400e-003	0.0566	394.6142
Worker	0.1192	0.0649	1.0250	3.2000e-003	0.3779	1.8000e-003	0.3797	0.1002	1.6500e-003	0.1019		323.1604	323.1604	7.8500e-003	7.5200e-003	325.5981
Total	**0.1374**	**0.8270**	**1.2550**	**6.7400e-003**	**0.4999**	**6.5900e-003**	**0.5065**	**0.1354**	**6.2300e-003**	**0.1416**		**700.7910**	**700.7910**	**0.0131**	**0.0641**	**720.2123**

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					
Off-Road	0.9057	5.0008	15.4361	0.0250		0.1688	0.1688		0.1688	0.1688	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
Total	**0.9057**	**5.0008**	**15.4361**	**0.0250**		**0.1688**	**0.1688**		**0.1688**	**0.1688**	**0.0000**	**2,289.6541**	**2,289.6541**	**0.4265**		**2,300.3154**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0000
Vendor	0.0182	0.7620	0.2300	3.5400e-003	0.1220	4.7900e-003	0.1268	0.0351	4.5800e-003	0.0397		377.6307	377.6307	5.2400e-003	0.0566	394.6142
Worker	0.1192	0.0649	1.0250	3.2000e-003	0.3779	1.8000e-003	0.3797	0.1002	1.6500e-003	0.1019		323.1604	323.1604	7.8500e-003	7.5200e-003	325.5981
Total	**0.1374**	**0.8270**	**1.2550**	**6.7400e-003**	**0.4999**	**6.5900e-003**	**0.5065**	**0.1354**	**6.2300e-003**	**0.1416**		**700.7910**	**700.7910**	**0.0131**	**0.0641**	**720.2123**

3.6 Paving - 2024

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					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652		1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.0524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8949**	**8.1030**	**11.7069**	**0.0179**		**0.3957**	**0.3957**		**0.3652**	**0.3652**		**1,710.2024**	**1,710.2024**	**0.5420**		**1,723.7529**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0000
Vendor	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
Worker	0.0389	0.0212	0.3343	1.0400e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		105.3784	105.3784	2.5600e-003	2.4500e-003	106.1733
Total	**0.0389**	**0.0212**	**0.3343**	**1.0400e-003**	**0.1232**	**5.9000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**105.3784**	**105.3784**	**2.5600e-003**	**2.4500e-003**	**106.1733**

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					
Off-Road	0.2691	1.2799	13.2821	0.0179		0.0424	0.0424		0.0424	0.0424	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.0524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3215**	**1.2799**	**13.2821**	**0.0179**		**0.0424**	**0.0424**		**0.0424**	**0.0424**	**0.0000**	**1,710.2024**	**1,710.2024**	**0.5420**		**1,723.7529**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0000
Vendor	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
Worker	0.0389	0.0212	0.3343	1.0400e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		105.3784	105.3784	2.5600e-003	2.4500e-003	106.1733
Total	**0.0389**	**0.0212**	**0.3343**	**1.0400e-003**	**0.1232**	**5.9000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**105.3784**	**105.3784**	**2.5600e-003**	**2.4500e-003**	**106.1733**

3.7 Architectural Coating - 2024

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					
Archit. Coating	63.3841					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**63.5649**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.0000
Vendor	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
Worker	0.0233	0.0127	0.2006	6.3000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		63.2270	63.2270	1.5400e-003	1.4700e-003	63.7040
Total	**0.0233**	**0.0127**	**0.2006**	**6.3000e-004**	**0.0739**	**3.5000e-004**	**0.0743**	**0.0196**	**3.2000e-004**	**0.0199**		**63.2270**	**63.2270**	**1.5400e-003**	**1.4700e-003**	**63.7040**

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					
Archit. Coating	63.3841					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**63.4138**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.0000
Vendor	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
Worker	0.0233	0.0127	0.2006	6.3000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		63.2270	63.2270	1.5400e-003	1.4700e-003	63.7040
Total	**0.0233**	**0.0127**	**0.2006**	**6.3000e-004**	**0.0739**	**3.5000e-004**	**0.0743**	**0.0196**	**3.2000e-004**	**0.0199**		**63.2270**	**63.2270**	**1.5400e-003**	**1.4700e-003**	**63.7040**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	0.7694	0.7671	6.1135	0.0138	1.4216	9.8600e-003	1.4314	0.3786	9.1900e-003	0.3878		1,399.9605	1,399.9605	0.0818	0.0674	1,422.0924
Unmitigated	0.7694	0.7671	6.1135	0.0138	1.4216	9.8600e-003	1.4314	0.3786	9.1900e-003	0.3878		1,399.9605	1,399.9605	0.0818	0.0674	1,422.0924

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	316.26	316.26	316.26	675,169	675,169
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	316.26	316.26	316.26	675,169	675,169

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Health Club	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Other Asphalt Surfaces	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
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

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Health Club	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
Other Asphalt Surfaces	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**

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

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					
City Park	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
Health Club	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
Other Asphalt Surfaces	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

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
Unmitigated	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143

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	0.1737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
Total	**1.4725**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0135**	**0.0135**	**4.0000e-005**		**0.0143**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

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	0.1737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
Total	**1.4725**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0135**	**0.0135**	**4.0000e-005**		**0.0143**

7.0 Water Detail

7.1 Mitigation Measures Water

Cal Softball Field Renovation Project - Max Day - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cal Softball Field Renovation Project - Max Day

Alameda County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.20	Acre	0.20	8,712.00	0
City Park	0.90	Acre	0.90	39,204.00	0
Health Club	60.43	1000sqft	1.01	60,429.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Cal Softball Field Renovation Project

Land Use - Proposed uses: 0.9 acre field (modeled as City Park), 60,429 sq ft of supportive buildings/structures (modeled as Health Club), and about 0.2 acres to be paved. ~2.11 acres to be graded

Construction Phase - Phase durations based on applicant input

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Default assumptions except for vendor truck trips added to Site Preparation and Grading phases to account for water trucks

On-road Fugitive Dust - Default

Demolition - 2,410 sf of buildings/structures and 66,030 sf of impermeable surface to be demolished

Grading - Total soil import of 2,219 CY

Architectural Coating - Default

Vehicle Trips - Worst-case net increase of 316 daily trips based on "Average Event Day" scenario

Consumer Products - Default

Area Coating - Default

Landscape Equipment - Default. Conservative since landscaping likely minimal based on synthetic turf field.

Energy Use - No natural gas demand for the project as indicated by the applicant

Water And Wastewater - Zeroed out outdoor water for the proposed buildings/structures. Retained outdoor water for the "City Park" as a conservative estimate for the project since the field will be synthetic turf

Solid Waste - Default

Construction Off-road Equipment Mitigation - BAAQMD BMPs: Watering 2x/day and limiting vehicle speeds on unpaved areas to 15 mph. UCB will also require Tier 4 Final for all equipment >= 50 hp

Mobile Land Use Mitigation -

Waste Mitigation - 54% waste diversion based on current campus average

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	168.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24NG	19.51	0.00
tblGrading	MaterialImported	0.00	2,219.00
tblLandUse	LandUseSquareFeet	60,430.00	60,429.00
tblLandUse	LotAcreage	1.39	1.01
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	1.96	351.40
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	2.19	351.40
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	0.78	351.40
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	OutdoorWaterUseRate	2,190,528.51	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	1.8614	20.7633	15.5156	0.0492	8.0288	0.6800	8.6858	3.6785	0.6360	4.2849	0.0000	5,072.9333	5,072.9333	0.7704	0.4772	5,232.9180
2024	63.5886	13.7114	15.3264	0.0315	0.4999	0.5447	1.0445	0.1354	0.5215	0.6569	0.0000	2,967.9666	2,967.9666	0.5450	0.0654	2,998.4684
Maximum	**63.5886**	**20.7633**	**15.5156**	**0.0492**	**8.0288**	**0.6800**	**8.6858**	**3.6785**	**0.6360**	**4.2849**	**0.0000**	**5,072.9333**	**5,072.9333**	**0.7704**	**0.4772**	**5,232.9180**

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					
2023	1.1092	7.3883	16.7799	0.0492	4.1103	0.1985	4.1966	1.7914	0.1981	1.8754	0.0000	5,072.9333	5,072.9333	0.7704	0.4772	5,232.9180
2024	63.4376	5.8887	16.6623	0.0315	0.4999	0.1754	0.6753	0.1354	0.1751	0.3104	0.0000	2,967.9666	2,967.9666	0.5450	0.0654	2,998.4684
Maximum	**63.4376**	**7.3883**	**16.7799**	**0.0492**	**4.1103**	**0.1985**	**4.1966**	**1.7914**	**0.1981**	**1.8754**	**0.0000**	**5,072.9333**	**5,072.9333**	**0.7704**	**0.4772**	**5,232.9180**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	N20	CO2e
Percent Reduction	1.38	61.49	-8.43	0.00	45.94	69.47	49.93	49.48	67.76	55.77	0.00	0.00	0.00	0.00	0.00	0.00

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
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	0.6834	0.8797	6.6231	0.0130	1.4216	9.8700e-003	1.4315	0.3786	9.2000e-003	0.3878		1,323.2568	1,323.2568	0.0939	0.0736	1,347.5447
Total	**2.1560**	**0.8798**	**6.6294**	**0.0130**	**1.4216**	**9.8900e-003**	**1.4315**	**0.3786**	**9.2200e-003**	**0.3878**		**1,323.2703**	**1,323.2703**	**0.0939**	**0.0736**	**1,347.5590**

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	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
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	0.6834	0.8797	6.6231	0.0130	1.4216	9.8700e-003	1.4315	0.3786	9.2000e-003	0.3878		1,323.2568	1,323.2568	0.0939	0.0736	1,347.5447
Total	**2.1560**	**0.8798**	**6.6294**	**0.0130**	**1.4216**	**9.8900e-003**	**1.4315**	**0.3786**	**9.2200e-003**	**0.3878**		**1,323.2703**	**1,323.2703**	**0.0939**	**0.0736**	**1,347.5590**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	N20	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	Demolition	Demolition	6/1/2023	6/28/2023	5	20	
2	Site Preparation	Site Preparation	6/29/2023	7/3/2023	5	3	
3	Grading	Grading	7/4/2023	7/11/2023	5	6	
4	Building Construction	Building Construction	7/12/2023	3/1/2024	5	168	
5	Paving	Paving	3/2/2024	3/15/2024	5	10	
6	Architectural Coating	Architectural Coating	3/16/2024	3/29/2024	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 90,644; Non-Residential Outdoor: 30,215; Striped Parking Area: 523 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	5	13.00	0.00	51.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	277.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	46.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

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					0.5536	0.0000	0.5536	0.0838	0.0000	0.0838			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**1.4725**	**14.3184**	**13.4577**	**0.0241**	**0.5536**	**0.6766**	**1.2302**	**0.0838**	**0.6328**	**0.7166**		**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	5.0600e-003	0.3417	0.0767	1.5200e-003	0.0447	2.8600e-003	0.0475	0.0123	2.7300e-003	0.0150		163.8936	163.8936	3.4600e-003	0.0259	171.6967
Vendor	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
Worker	0.0367	0.0255	0.2993	8.7000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		87.6277	87.6277	2.8000e-003	2.6400e-003	88.4831
Total	**0.0418**	**0.3673**	**0.3759**	**2.3900e-003**	**0.1515**	**3.3900e-003**	**0.1549**	**0.0406**	**3.2200e-003**	**0.0438**		**251.5213**	**251.5213**	**6.2600e-003**	**0.0285**	**260.1798**

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					0.2491	0.0000	0.2491	0.0377	0.0000	0.0377			0.0000			0.0000
Off-Road	0.2811	1.2179	14.7184	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**0.2811**	**1.2179**	**14.7184**	**0.0241**	**0.2491**	**0.0375**	**0.2866**	**0.0377**	**0.0375**	**0.0752**	**0.0000**	**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	5.0600e-003	0.3417	0.0767	1.5200e-003	0.0447	2.8600e-003	0.0475	0.0123	2.7300e-003	0.0150		163.8936	163.8936	3.4600e-003	0.0259	171.6967
Vendor	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
Worker	0.0367	0.0255	0.2993	8.7000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		87.6277	87.6277	2.8000e-003	2.6400e-003	88.4831
Total	**0.0418**	**0.3673**	**0.3759**	**2.3900e-003**	**0.1515**	**3.3900e-003**	**0.1549**	**0.0406**	**3.2200e-003**	**0.0438**		**251.5213**	**251.5213**	**6.2600e-003**	**0.0285**	**260.1798**

3.3 Site Preparation - 2023

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
Total	**1.3027**	**14.2802**	**9.7820**	**0.0245**	**1.5908**	**0.5419**	**2.1326**	**0.1718**	**0.4985**	**0.6703**		**2,374.8634**	**2,374.8634**	**0.7681**		**2,394.0654**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0000
Vendor	1.9700e-003	0.0894	0.0269	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		42.6884	42.6884	5.8000e-004	6.3900e-003	44.6084
Worker	0.0226	0.0157	0.1842	5.3000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		53.9247	53.9247	1.7200e-003	1.6200e-003	54.4511
Total	**0.0246**	**0.1051**	**0.2111**	**9.3000e-004**	**0.0793**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**96.6132**	**96.6132**	**2.3000e-003**	**8.0100e-003**	**99.0595**

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					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	0.3008	1.3034	11.8595	0.0245		0.0401	0.0401		0.0401	0.0401	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
Total	**0.3008**	**1.3034**	**11.8595**	**0.0245**	**0.7158**	**0.0401**	**0.7559**	**0.0773**	**0.0401**	**0.1174**	**0.0000**	**2,374.8634**	**2,374.8634**	**0.7681**		**2,394.0654**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0000
Vendor	1.9700e-003	0.0894	0.0269	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		42.6884	42.6884	5.8000e-004	6.3900e-003	44.6084
Worker	0.0226	0.0157	0.1842	5.3000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.0000e-004	0.0177		53.9247	53.9247	1.7200e-003	1.6200e-003	54.4511
Total	**0.0246**	**0.1051**	**0.2111**	**9.3000e-004**	**0.0793**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**96.6132**	**96.6132**	**2.3000e-003**	**8.0100e-003**	**99.0595**

3.4 Grading - 2023

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					7.1244	0.0000	7.1244	3.4311	0.0000	3.4311			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**1.3330**	**14.4676**	**8.7038**	**0.0206**	**7.1244**	**0.6044**	**7.7288**	**3.4311**	**0.5560**	**3.9871**		**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.0915	6.1867	1.3884	0.0275	0.8087	0.0518	0.8604	0.2218	0.0495	0.2713		2,967.2242	2,967.2242	0.0627	0.4688	3,108.4955
Vendor	1.9700e-003	0.0894	0.0269	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		42.6884	42.6884	5.8000e-004	6.3900e-003	44.6084
Worker	0.0283	0.0196	0.2302	6.7000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.4059	67.4059	2.1500e-003	2.0300e-003	68.0639
Total	**0.1218**	**6.2957**	**1.6455**	**0.0286**	**0.9044**	**0.0527**	**0.9570**	**0.2474**	**0.0504**	**0.2978**		**3,077.3186**	**3,077.3186**	**0.0654**	**0.4772**	**3,221.1678**

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					3.2060	0.0000	3.2060	1.5440	0.0000	1.5440			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0206		0.0336	0.0336		0.0336	0.0336	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	**0.2522**	**1.0927**	**10.9071**	**0.0206**	**3.2060**	**0.0336**	**3.2396**	**1.5440**	**0.0336**	**1.5776**	**0.0000**	**1,995.6147**	**1,995.6147**	**0.6454**		**2,011.7503**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.0915	6.1867	1.3884	0.0275	0.8087	0.0518	0.8604	0.2218	0.0495	0.2713		2,967.2242	2,967.2242	0.0627	0.4688	3,108.4955
Vendor	1.9700e-003	0.0894	0.0269	4.0000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		42.6884	42.6884	5.8000e-004	6.3900e-003	44.6084
Worker	0.0283	0.0196	0.2302	6.7000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.4059	67.4059	2.1500e-003	2.0300e-003	68.0639
Total	**0.1218**	**6.2957**	**1.6455**	**0.0286**	**0.9044**	**0.0527**	**0.9570**	**0.2474**	**0.0504**	**0.2978**		**3,077.3186**	**3,077.3186**	**0.0654**	**0.4772**	**3,221.1678**

3.5 Building Construction - 2023

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					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	**1.7136**	**13.6239**	**14.2145**	**0.0250**		**0.6136**	**0.6136**		**0.5880**	**0.5880**		**2,289.5233**	**2,289.5233**	**0.4330**		**2,300.3479**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0000
Vendor	0.0178	0.8042	0.2422	3.6000e-003	0.1220	4.7600e-003	0.1268	0.0351	4.5500e-003	0.0397		384.1959	384.1959	5.2000e-003	0.0576	401.4755
Worker	0.1300	0.0903	1.0589	3.0700e-003	0.3779	1.8900e-003	0.3798	0.1002	1.7400e-003	0.1020		310.0671	310.0671	9.9000e-003	9.3300e-003	313.0939
Total	**0.1477**	**0.8946**	**1.3011**	**6.6700e-003**	**0.4999**	**6.6500e-003**	**0.5065**	**0.1354**	**6.2900e-003**	**0.1417**		**694.2631**	**694.2631**	**0.0151**	**0.0669**	**714.5694**

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					
Off-Road	0.9615	5.1202	15.4788	0.0250		0.1918	0.1918		0.1918	0.1918	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	**0.9615**	**5.1202**	**15.4788**	**0.0250**		**0.1918**	**0.1918**		**0.1918**	**0.1918**	**0.0000**	**2,289.5233**	**2,289.5233**	**0.4330**		**2,300.3479**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0000
Vendor	0.0178	0.8042	0.2422	3.6000e-003	0.1220	4.7600e-003	0.1268	0.0351	4.5500e-003	0.0397		384.1959	384.1959	5.2000e-003	0.0576	401.4755
Worker	0.1300	0.0903	1.0589	3.0700e-003	0.3779	1.8900e-003	0.3798	0.1002	1.7400e-003	0.1020		310.0671	310.0671	9.9000e-003	9.3300e-003	313.0939
Total	**0.1477**	**0.8946**	**1.3011**	**6.6700e-003**	**0.4999**	**6.6500e-003**	**0.5065**	**0.1354**	**6.2900e-003**	**0.1417**		**694.2631**	**694.2631**	**0.0151**	**0.0669**	**714.5694**

3.5 Building Construction - 2024

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					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154
Total	**1.5971**	**12.8235**	**14.1002**	**0.0250**		**0.5381**	**0.5381**		**0.5153**	**0.5153**		**2,289.6541**	**2,289.6541**	**0.4265**		**2,300.3154**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0000
Vendor	0.0173	0.8073	0.2377	3.5400e-003	0.1220	4.8000e-003	0.1268	0.0351	4.5900e-003	0.0397		378.2728	378.2728	5.1900e-003	0.0567	395.2976
Worker	0.1216	0.0806	0.9885	2.9700e-003	0.3779	1.8000e-003	0.3797	0.1002	1.6500e-003	0.1019		300.0397	300.0397	8.9900e-003	8.6900e-003	302.8555
Total	**0.1389**	**0.8879**	**1.2262**	**6.5100e-003**	**0.4999**	**6.6000e-003**	**0.5065**	**0.1354**	**6.2400e-003**	**0.1416**		**678.3125**	**678.3125**	**0.0142**	**0.0654**	**698.1531**

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					
Off-Road	0.9057	5.0008	15.4361	0.0250		0.1688	0.1688		0.1688	0.1688	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
Total	**0.9057**	**5.0008**	**15.4361**	**0.0250**		**0.1688**	**0.1688**		**0.1688**	**0.1688**	**0.0000**	**2,289.6541**	**2,289.6541**	**0.4265**		**2,300.3154**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0000
Vendor	0.0173	0.8073	0.2377	3.5400e-003	0.1220	4.8000e-003	0.1268	0.0351	4.5900e-003	0.0397		378.2728	378.2728	5.1900e-003	0.0567	395.2976
Worker	0.1216	0.0806	0.9885	2.9700e-003	0.3779	1.8000e-003	0.3797	0.1002	1.6500e-003	0.1019		300.0397	300.0397	8.9900e-003	8.6900e-003	302.8555
Total	**0.1389**	**0.8879**	**1.2262**	**6.5100e-003**	**0.4999**	**6.6000e-003**	**0.5065**	**0.1354**	**6.2400e-003**	**0.1416**		**678.3125**	**678.3125**	**0.0142**	**0.0654**	**698.1531**

3.6 Paving - 2024

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					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652		1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.0524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8949**	**8.1030**	**11.7069**	**0.0179**		**0.3957**	**0.3957**		**0.3652**	**0.3652**		**1,710.2024**	**1,710.2024**	**0.5420**		**1,723.7529**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0000
Vendor	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
Worker	0.0396	0.0263	0.3223	9.7000e-004	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.8390	97.8390	2.9300e-003	2.8400e-003	98.7572
Total	**0.0396**	**0.0263**	**0.3223**	**9.7000e-004**	**0.1232**	**5.9000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**97.8390**	**97.8390**	**2.9300e-003**	**2.8400e-003**	**98.7572**

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					
Off-Road	0.2691	1.2799	13.2821	0.0179		0.0424	0.0424		0.0424	0.0424	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.0524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3215**	**1.2799**	**13.2821**	**0.0179**		**0.0424**	**0.0424**		**0.0424**	**0.0424**	**0.0000**	**1,710.2024**	**1,710.2024**	**0.5420**		**1,723.7529**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0000
Vendor	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
Worker	0.0396	0.0263	0.3223	9.7000e-004	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		97.8390	97.8390	2.9300e-003	2.8400e-003	98.7572
Total	**0.0396**	**0.0263**	**0.3223**	**9.7000e-004**	**0.1232**	**5.9000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**97.8390**	**97.8390**	**2.9300e-003**	**2.8400e-003**	**98.7572**

3.7 Architectural Coating - 2024

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					
Archit. Coating	63.3841					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**63.5649**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.0000
Vendor	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
Worker	0.0238	0.0158	0.1934	5.8000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		58.7034	58.7034	1.7600e-003	1.7000e-003	59.2543
Total	**0.0238**	**0.0158**	**0.1934**	**5.8000e-004**	**0.0739**	**3.5000e-004**	**0.0743**	**0.0196**	**3.2000e-004**	**0.0199**		**58.7034**	**58.7034**	**1.7600e-003**	**1.7000e-003**	**59.2543**

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					
Archit. Coating	63.3841					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**63.4138**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.0000
Vendor	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
Worker	0.0238	0.0158	0.1934	5.8000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		58.7034	58.7034	1.7600e-003	1.7000e-003	59.2543
Total	**0.0238**	**0.0158**	**0.1934**	**5.8000e-004**	**0.0739**	**3.5000e-004**	**0.0743**	**0.0196**	**3.2000e-004**	**0.0199**		**58.7034**	**58.7034**	**1.7600e-003**	**1.7000e-003**	**59.2543**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	0.6834	0.8797	6.6231	0.0130	1.4216	9.8700e-003	1.4315	0.3786	9.2000e-003	0.3878		1,323.2568	1,323.2568	0.0939	0.0736	1,347.5447
Unmitigated	0.6834	0.8797	6.6231	0.0130	1.4216	9.8700e-003	1.4315	0.3786	9.2000e-003	0.3878		1,323.2568	1,323.2568	0.0939	0.0736	1,347.5447

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	316.26	316.26	316.26	675,169	675,169
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	316.26	316.26	316.26	675,169	675,169

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Health Club	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Other Asphalt Surfaces	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
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

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
City Park	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
Health Club	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
Other Asphalt Surfaces	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**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

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					
City Park	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
Health Club	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
Other Asphalt Surfaces	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

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
Unmitigated	1.4725	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143

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	0.1737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
Total	**1.4725**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0135**	**0.0135**	**4.0000e-005**		**0.0143**

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

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	0.1737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0135	0.0135	4.0000e-005		0.0143
Total	**1.4725**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0135**	**0.0135**	**4.0000e-005**		**0.0143**

7.0 Water Detail

7.1 Mitigation Measures Water

Cal Softball Field Renovation Project - Max Day - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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

Cal Softball Field Renovation Project - Annual - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cal Softball Field Renovation Project - Annual

Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.20	Acre	0.20	8,712.00	0
City Park	0.90	Acre	0.90	39,204.00	0
Health Club	60.43	1000sqft	1.01	60,429.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Cal Softball Field Renovation Project

Land Use - Proposed uses: 0.9 acre field (modeled as City Park), 60,429 sq ft of supportive buildings/structures (modeled as Health Club), and about 0.2 acres to be paved. ~2.11 acres to be graded

Construction Phase - Phase durations based on applicant input

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Cal Softball Field Renovation Project - Annual - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Default assumptions except for vendor truck trips added to Site Preparation and Grading phases to account for water trucks

On-road Fugitive Dust - Default

Demolition - 2,410 sf of buildings/structures and 66,030 sf of impermeable surface to be demolished

Grading - Total soil import of 2,219 CY

Architectural Coating - Default

Vehicle Trips - Worst-case annual net increase of 26 average new daily trips based on 325x"Typical Days" plus 30x"Average Event Days" (which have max new trips) minus 10 days of federal holidays

Consumer Products - Default

Area Coating - Default

Landscape Equipment - Default. Conservative since landscaping likely minimal based on synthetic turf field.

Energy Use - No natural gas demand for the project as indicated by the applicant

Water And Wastewater - Zeroed out outdoor water for the proposed buildings/structures. Retained outdoor water for the "City Park" as a conservative estimate for the project since the field will be synthetic turf

Solid Waste - Default

Construction Off-road Equipment Mitigation - BAAQMD BMPs: Watering 2x/day and limiting vehicle speeds on unpaved areas to 15 mph. UCB will also require Tier 4 Final for all equipment >= 50 hp

Waste Mitigation - 54% waste diversion based on current campus average

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Cal Softball Field Renovation Project - Annual - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	168.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24NG	19.51	0.00
tblGrading	MaterialImported	0.00	2,219.00
tblLandUse	LandUseSquareFeet	60,430.00	60,429.00
tblLandUse	LotAcreage	1.39	1.01
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	1.96	30.86
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	2.19	30.86
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	0.78	30.86
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	OutdoorWaterUseRate	2,190,528.51	0.00

Cal Softball Field Renovation Project - Annual - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.1354	1.1216	1.1359	2.4000e-003	0.0631	0.0477	0.1109	0.0206	0.0455	0.0661	0.0000	207.1061	207.1061	0.0334	5.2600e-003	209.5079
2024	0.3615	0.3548	0.4140	8.2000e-004	0.0118	0.0145	0.0263	3.2000e-003	0.0139	0.0171	0.0000	70.3639	70.3639	0.0115	1.3400e-003	71.0521
Maximum	**0.3615**	**1.1216**	**1.1359**	**2.4000e-003**	**0.0631**	**0.0477**	**0.1109**	**0.0206**	**0.0455**	**0.0661**	**0.0000**	**207.1061**	**207.1061**	**0.0334**	**5.2600e-003**	**209.5079**

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					
2023	0.0725	0.4080	1.2360	2.4000e-003	0.0470	0.0129	0.0600	0.0143	0.0129	0.0272	0.0000	207.1060	207.1060	0.0334	5.2600e-003	209.5077
2024	0.3423	0.1392	0.4521	8.2000e-004	0.0118	4.1800e-003	0.0160	3.2000e-003	4.1700e-003	7.3700e-003	0.0000	70.3638	70.3638	0.0115	1.3400e-003	71.0521
Maximum	**0.3423**	**0.4080**	**1.2360**	**2.4000e-003**	**0.0470**	**0.0129**	**0.0600**	**0.0143**	**0.0129**	**0.0272**	**0.0000**	**207.1060**	**207.1060**	**0.0334**	**5.2600e-003**	**209.5077**

Cal Softball Field Renovation Project - Annual - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	N20	CO2e
Percent Reduction	**16.52**	**62.93**	**-8.91**	**0.00**	**21.50**	**72.52**	**44.66**	**26.36**	**71.24**	**58.39**	**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	**6-1-2023**	**8-31-2023**	0.5495	0.1717
2	**9-1-2023**	**11-30-2023**	0.5317	0.2308
3	**12-1-2023**	**2-29-2024**	0.5124	0.2274
4	**3-1-2024**	**5-31-2024**	0.3750	0.3287
		Highest	0.5495	0.3287

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	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
Mobile	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914
Waste						0.0000	0.0000		0.0000	0.0000	69.9365	0.0000	69.9365	4.1331	0.0000	173.2647
Water						0.0000	0.0000		0.0000	0.0000	1.1339	2.1366	3.2705	0.1168	2.7900e-003	7.0225
Total	**0.2796**	**0.0133**	**0.0994**	**2.1000e-004**	**0.0219**	**1.6000e-004**	**0.0220**	**5.8400e-003**	**1.5000e-004**	**5.9900e-003**	**71.0704**	**66.6786**	**137.7489**	**4.2586**	**4.7100e-003**	**245.6156**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

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	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
Mobile	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914
Waste						0.0000	0.0000		0.0000	0.0000	32.1708	0.0000	32.1708	1.9012	0.0000	79.7017
Water						0.0000	0.0000		0.0000	0.0000	1.1339	2.1366	3.2705	0.1168	2.7900e-003	7.0225
Total	**0.2796**	**0.0133**	**0.0994**	**2.1000e-004**	**0.0219**	**1.6000e-004**	**0.0220**	**5.8400e-003**	**1.5000e-004**	**5.9900e-003**	**33.3047**	**66.6786**	**99.9832**	**2.0267**	**4.7100e-003**	**152.0527**

	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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**53.14**	**0.00**	**27.42**	**52.41**	**0.00**	**38.09**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2023	6/28/2023	5	20	
2	Site Preparation	Site Preparation	6/29/2023	7/3/2023	5	3	
3	Grading	Grading	7/4/2023	7/11/2023	5	6	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	7/12/2023	3/1/2024	5	168	
5	Paving	Paving	3/2/2024	3/15/2024	5	10	
6	Architectural Coating	Architectural Coating	3/16/2024	3/29/2024	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 90,644; Non-Residential Outdoor: 30,215; Striped Parking Area: 523 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	5	13.00	0.00	51.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	277.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	46.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					5.5400e-003	0.0000	5.5400e-003	8.4000e-004	0.0000	8.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202
Total	**0.0147**	**0.1432**	**0.1346**	**2.4000e-004**	**5.5400e-003**	**6.7700e-003**	**0.0123**	**8.4000e-004**	**6.3300e-003**	**7.1700e-003**	**0.0000**	**21.0866**	**21.0866**	**5.3500e-003**	**0.0000**	**21.2202**

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	5.0000e-005	3.3500e-003	7.6000e-004	2.0000e-005	4.3000e-004	3.0000e-005	4.6000e-004	1.2000e-004	3.0000e-005	1.5000e-004	0.0000	1.4859	1.4859	3.0000e-005	2.3000e-004	1.5566
Vendor	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
Worker	3.4000e-004	2.3000e-004	2.8900e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	0.0000	2.8000e-004	0.0000	0.8003	0.8003	2.0000e-005	2.0000e-005	0.8076
Total	**3.9000e-004**	**3.5800e-003**	**3.6500e-003**	**3.0000e-005**	**1.4600e-003**	**4.0000e-005**	**1.4900e-003**	**3.9000e-004**	**3.0000e-005**	**4.3000e-004**	**0.0000**	**2.2862**	**2.2862**	**5.0000e-005**	**2.5000e-004**	**2.3643**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					2.4900e-003	0.0000	2.4900e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8100e-003	0.0122	0.1472	2.4000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202
Total	**2.8100e-003**	**0.0122**	**0.1472**	**2.4000e-004**	**2.4900e-003**	**3.7000e-004**	**2.8600e-003**	**3.8000e-004**	**3.7000e-004**	**7.5000e-004**	**0.0000**	**21.0865**	**21.0865**	**5.3500e-003**	**0.0000**	**21.2202**

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	5.0000e-005	3.3500e-003	7.6000e-004	2.0000e-005	4.3000e-004	3.0000e-005	4.6000e-004	1.2000e-004	3.0000e-005	1.5000e-004	0.0000	1.4859	1.4859	3.0000e-005	2.3000e-004	1.5566
Vendor	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
Worker	3.4000e-004	2.3000e-004	2.8900e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	0.0000	2.8000e-004	0.0000	0.8003	0.8003	2.0000e-005	2.0000e-005	0.8076
Total	**3.9000e-004**	**3.5800e-003**	**3.6500e-003**	**3.0000e-005**	**1.4600e-003**	**4.0000e-005**	**1.4900e-003**	**3.9000e-004**	**3.0000e-005**	**4.3000e-004**	**0.0000**	**2.2862**	**2.2862**	**5.0000e-005**	**2.5000e-004**	**2.3643**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
Total	**1.9500e-003**	**0.0214**	**0.0147**	**4.0000e-005**	**2.3900e-003**	**8.1000e-004**	**3.2000e-003**	**2.6000e-004**	**7.5000e-004**	**1.0100e-003**	**0.0000**	**3.2317**	**3.2317**	**1.0500e-003**	**0.0000**	**3.2578**

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	0.0000	1.3000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0580	0.0580	0.0000	1.0000e-005	0.0606
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0739	0.0739	0.0000	0.0000	0.0746
Total	**3.0000e-005**	**1.5000e-004**	**3.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1319**	**0.1319**	**0.0000**	**1.0000e-005**	**0.1352**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	1.9600e-003	0.0178	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
Total	**4.5000e-004**	**1.9600e-003**	**0.0178**	**4.0000e-005**	**1.0700e-003**	**6.0000e-005**	**1.1300e-003**	**1.2000e-004**	**6.0000e-005**	**1.8000e-004**	**0.0000**	**3.2317**	**3.2317**	**1.0500e-003**	**0.0000**	**3.2578**

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	0.0000	1.3000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0580	0.0580	0.0000	1.0000e-005	0.0606
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0739	0.0739	0.0000	0.0000	0.0746
Total	**3.0000e-005**	**1.5000e-004**	**3.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1319**	**0.1319**	**0.0000**	**1.0000e-005**	**0.1352**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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					0.0214	0.0000	0.0214	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
Total	**4.0000e-003**	**0.0434**	**0.0261**	**6.0000e-005**	**0.0214**	**1.8100e-003**	**0.0232**	**0.0103**	**1.6700e-003**	**0.0120**	**0.0000**	**5.4312**	**5.4312**	**1.7600e-003**	**0.0000**	**5.4751**

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	2.9000e-004	0.0182	4.1300e-003	8.0000e-005	2.3500e-003	1.6000e-004	2.5000e-003	6.5000e-004	1.5000e-004	7.9000e-004	0.0000	8.0703	8.0703	1.7000e-004	1.2800e-003	8.4546
Vendor	1.0000e-005	2.6000e-004	8.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1161	0.1161	0.0000	2.0000e-005	0.1213
Worker	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1847	0.1847	1.0000e-005	1.0000e-005	0.1864
Total	**3.8000e-004**	**0.0185**	**4.8800e-003**	**8.0000e-005**	**2.6300e-003**	**1.6000e-004**	**2.7800e-003**	**7.2000e-004**	**1.5000e-004**	**8.6000e-004**	**0.0000**	**8.3711**	**8.3711**	**1.8000e-004**	**1.3100e-003**	**8.7622**

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3.4 Grading - 2023

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					9.6200e-003	0.0000	9.6200e-003	4.6300e-003	0.0000	4.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	3.2800e-003	0.0327	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
Total	**7.6000e-004**	**3.2800e-003**	**0.0327**	**6.0000e-005**	**9.6200e-003**	**1.0000e-004**	**9.7200e-003**	**4.6300e-003**	**1.0000e-004**	**4.7300e-003**	**0.0000**	**5.4312**	**5.4312**	**1.7600e-003**	**0.0000**	**5.4751**

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	2.9000e-004	0.0182	4.1300e-003	8.0000e-005	2.3500e-003	1.6000e-004	2.5000e-003	6.5000e-004	1.5000e-004	7.9000e-004	0.0000	8.0703	8.0703	1.7000e-004	1.2800e-003	8.4546
Vendor	1.0000e-005	2.6000e-004	8.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1161	0.1161	0.0000	2.0000e-005	0.1213
Worker	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1847	0.1847	1.0000e-005	1.0000e-005	0.1864
Total	**3.8000e-004**	**0.0185**	**4.8800e-003**	**8.0000e-005**	**2.6300e-003**	**1.6000e-004**	**2.7800e-003**	**7.2000e-004**	**1.5000e-004**	**8.6000e-004**	**0.0000**	**8.3711**	**8.3711**	**1.8000e-004**	**1.3100e-003**	**8.7622**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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					
Off-Road	0.1054	0.8379	0.8742	1.5400e-003		0.0377	0.0377		0.0362	0.0362	0.0000	127.7368	127.7368	0.0242	0.0000	128.3407
Total	**0.1054**	**0.8379**	**0.8742**	**1.5400e-003**		**0.0377**	**0.0377**		**0.0362**	**0.0362**	**0.0000**	**127.7368**	**127.7368**	**0.0242**	**0.0000**	**128.3407**

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	1.1200e-003	0.0484	0.0146	2.2000e-004	7.2700e-003	2.9000e-004	7.5600e-003	2.1000e-003	2.8000e-004	2.3800e-003	0.0000	21.4141	21.4141	2.9000e-004	3.2100e-003	22.3769
Worker	7.4000e-003	5.0700e-003	0.0629	1.9000e-004	0.0224	1.2000e-004	0.0225	5.9500e-003	1.1000e-004	6.0600e-003	0.0000	17.4167	17.4167	5.2000e-004	4.9000e-004	17.5755
Total	**8.5200e-003**	**0.0535**	**0.0775**	**4.1000e-004**	**0.0296**	**4.1000e-004**	**0.0300**	**8.0500e-003**	**3.9000e-004**	**8.4400e-003**	**0.0000**	**38.8308**	**38.8308**	**8.1000e-004**	**3.7000e-003**	**39.9524**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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					
Off-Road	0.0591	0.3149	0.9519	1.5400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	127.7366	127.7366	0.0242	0.0000	128.3405
Total	**0.0591**	**0.3149**	**0.9519**	**1.5400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**127.7366**	**127.7366**	**0.0242**	**0.0000**	**128.3405**

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	1.1200e-003	0.0484	0.0146	2.2000e-004	7.2700e-003	2.9000e-004	7.5600e-003	2.1000e-003	2.8000e-004	2.3800e-003	0.0000	21.4141	21.4141	2.9000e-004	3.2100e-003	22.3769
Worker	7.4000e-003	5.0700e-003	0.0629	1.9000e-004	0.0224	1.2000e-004	0.0225	5.9500e-003	1.1000e-004	6.0600e-003	0.0000	17.4167	17.4167	5.2000e-004	4.9000e-004	17.5755
Total	**8.5200e-003**	**0.0535**	**0.0775**	**4.1000e-004**	**0.0296**	**4.1000e-004**	**0.0300**	**8.0500e-003**	**3.9000e-004**	**8.4400e-003**	**0.0000**	**38.8308**	**38.8308**	**8.1000e-004**	**3.7000e-003**	**39.9524**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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					
Off-Road	0.0359	0.2885	0.3173	5.6000e-004		0.0121	0.0121		0.0116	0.0116	0.0000	46.7356	46.7356	8.7000e-003	0.0000	46.9533
Total	**0.0359**	**0.2885**	**0.3173**	**5.6000e-004**		**0.0121**	**0.0121**		**0.0116**	**0.0116**	**0.0000**	**46.7356**	**46.7356**	**8.7000e-003**	**0.0000**	**46.9533**

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	4.0000e-004	0.0178	5.2500e-003	8.0000e-005	2.6600e-003	1.1000e-004	2.7700e-003	7.7000e-004	1.0000e-004	8.7000e-004	0.0000	7.7136	7.7136	1.1000e-004	1.1600e-003	8.0606
Worker	2.5300e-003	1.6600e-003	0.0215	7.0000e-005	8.1800e-003	4.0000e-005	8.2200e-003	2.1800e-003	4.0000e-005	2.2100e-003	0.0000	6.1658	6.1658	1.7000e-004	1.7000e-004	6.2199
Total	**2.9300e-003**	**0.0194**	**0.0267**	**1.5000e-004**	**0.0108**	**1.5000e-004**	**0.0110**	**2.9500e-003**	**1.4000e-004**	**3.0800e-003**	**0.0000**	**13.8794**	**13.8794**	**2.8000e-004**	**1.3300e-003**	**14.2805**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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					
Off-Road	0.0204	0.1125	0.3473	5.6000e-004		3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	46.7356	46.7356	8.7000e-003	0.0000	46.9532
Total	**0.0204**	**0.1125**	**0.3473**	**5.6000e-004**		**3.8000e-003**	**3.8000e-003**		**3.8000e-003**	**3.8000e-003**	**0.0000**	**46.7356**	**46.7356**	**8.7000e-003**	**0.0000**	**46.9532**

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	4.0000e-004	0.0178	5.2500e-003	8.0000e-005	2.6600e-003	1.1000e-004	2.7700e-003	7.7000e-004	1.0000e-004	8.7000e-004	0.0000	7.7136	7.7136	1.1000e-004	1.1600e-003	8.0606
Worker	2.5300e-003	1.6600e-003	0.0215	7.0000e-005	8.1800e-003	4.0000e-005	8.2200e-003	2.1800e-003	4.0000e-005	2.2100e-003	0.0000	6.1658	6.1658	1.7000e-004	1.7000e-004	6.2199
Total	**2.9300e-003**	**0.0194**	**0.0267**	**1.5000e-004**	**0.0108**	**1.5000e-004**	**0.0110**	**2.9500e-003**	**1.4000e-004**	**3.0800e-003**	**0.0000**	**13.8794**	**13.8794**	**2.8000e-004**	**1.3300e-003**	**14.2805**

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3.6 Paving - 2024

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					
Off-Road	4.2100e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7574	7.7574	2.4600e-003	0.0000	7.8188
Paving	2.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4700e-003**	**0.0405**	**0.0585**	**9.0000e-005**		**1.9800e-003**	**1.9800e-003**		**1.8300e-003**	**1.8300e-003**	**0.0000**	**7.7574**	**7.7574**	**2.4600e-003**	**0.0000**	**7.8188**

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	0.0000	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
Worker	1.8000e-004	1.2000e-004	1.5600e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4468	0.4468	1.0000e-005	1.0000e-005	0.4507
Total	**1.8000e-004**	**1.2000e-004**	**1.5600e-003**	**0.0000**	**5.9000e-004**	**0.0000**	**6.0000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4468**	**0.4468**	**1.0000e-005**	**1.0000e-005**	**0.4507**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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					
Off-Road	1.3500e-003	6.4000e-003	0.0664	9.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.7573	7.7573	2.4600e-003	0.0000	7.8188
Paving	2.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6100e-003**	**6.4000e-003**	**0.0664**	**9.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.7573**	**7.7573**	**2.4600e-003**	**0.0000**	**7.8188**

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	0.0000	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
Worker	1.8000e-004	1.2000e-004	1.5600e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4468	0.4468	1.0000e-005	1.0000e-005	0.4507
Total	**1.8000e-004**	**1.2000e-004**	**1.5600e-003**	**0.0000**	**5.9000e-004**	**0.0000**	**6.0000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4468**	**0.4468**	**1.0000e-005**	**1.0000e-005**	**0.4507**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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					
Archit. Coating	0.3169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.3178**	**6.0900e-003**	**9.0500e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	0.0000	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
Worker	1.1000e-004	7.0000e-005	9.3000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2681	0.2681	1.0000e-005	1.0000e-005	0.2704
Total	**1.1000e-004**	**7.0000e-005**	**9.3000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2681**	**0.2681**	**1.0000e-005**	**1.0000e-005**	**0.2704**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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					
Archit. Coating	0.3169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.3171**	**6.4000e-004**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	0.0000	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
Worker	1.1000e-004	7.0000e-005	9.3000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2681	0.2681	1.0000e-005	1.0000e-005	0.2704
Total	**1.1000e-004**	**7.0000e-005**	**9.3000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2681**	**0.2681**	**1.0000e-005**	**1.0000e-005**	**0.2704**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914
Unmitigated	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	27.77	27.77	27.77	59,293	59,293
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	27.77	27.77	27.77	59,293	59,293

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Health Club	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Other Asphalt Surfaces	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
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	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	tons/yr										MT/yr					
City Park	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
Health Club	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
Other Asphalt Surfaces	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**

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5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
City Park	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
Health Club	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
Other Asphalt Surfaces	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**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Health Club	489475	45.2881	7.3300e-003	8.9000e-004	45.7359
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**45.2881**	**7.3300e-003**	**8.9000e-004**	**45.7359**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Health Club	489475	45.2881	7.3300e-003	8.9000e-004	45.7359
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**45.2881**	**7.3300e-003**	**8.9000e-004**	**45.7359**

6.0 Area Detail

6.1 Mitigation Measures Area

Cal Softball Field Renovation Project - Annual - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Unmitigated	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-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	tons/yr										MT/yr					
Architectural Coating	0.0317					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Total	**0.2687**	**1.0000e-005**	**5.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**0.0000**	**1.1700e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

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	0.0317					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Total	**0.2687**	**1.0000e-005**	**5.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**0.0000**	**1.1700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.2705	0.1168	2.7900e-003	7.0225
Unmitigated	3.2705	0.1168	2.7900e-003	7.0225

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.07233	0.3473	6.0000e-005	1.0000e-005	0.3507
Health Club	3.57402 / 0	2.9232	0.1168	2.7800e-003	6.6718
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.2705**	**0.1168**	**2.7900e-003**	**7.0225**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.07233	0.3473	6.0000e-005	1.0000e-005	0.3507
Health Club	3.57402 / 0	2.9232	0.1168	2.7800e-003	6.6718
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.2705**	**0.1168**	**2.7900e-003**	**7.0225**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.1708	1.9012	0.0000	79.7017
Unmitigated	69.9365	4.1331	0.0000	173.2647

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.08	0.0162	9.6000e-004	0.0000	0.0402
Health Club	344.45	69.9202	4.1322	0.0000	173.2244
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**69.9365**	**4.1331**	**0.0000**	**173.2647**

Cal Softball Field Renovation Project - Annual - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.0368	7.4700e-003	4.4000e-004	0.0000	0.0185
Health Club	158.447	32.1633	1.9008	0.0000	79.6832
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**32.1708**	**1.9012**	**0.0000**	**79.7018**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

APPENDIX A-2

Construction Health Risk Assessment

Health Risk Assessment Report for the Cal Softball Field Renovation Project

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JULY 2022

Printed on 30% post-consumer recycled material.

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ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
ASF	age-sensitivity factor
BAAQMD	Bay Area Air Quality Management District
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
DBR	daily breathing rate
DPM	diesel particulate matter
EPA	U.S. Environmental Protection Agency
FAH	fraction of time at home
g/s	grams per second
HARP2	Hotspots Analysis and Reporting Program Version 2
HRA	health risk assessment
m E	meters easting
m N	meters northing
MEIR	maximally exposed individual resident
NED	National Elevation Dataset
OEHHA	Office of Environmental Health Hazard Assessment
PM_{10}	particulate matter with a diameter less the 10 microns
Project	Cal Softball Field Renovation Project
REL	reference exposure level
TAC	toxic air contaminant
$\mu g/m^3$	microgram per cubic meter
UTM	Universal Transverse Mercator

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Health Risk Assessment for the Cal Softball Field Renovation Project

SUMMARY

The purpose of this health risk assessment (HRA) is to determine the potential cancer risk and noncancer health impacts to existing sensitive residential receptors in proximity to the proposed Cal Softball Field Renovation Project (project or proposed project) due to toxic air contaminant (TAC) emissions resulting from construction of the project.

Air dispersion modeling was conducted using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) and the Hotspots Analysis and Reporting Program Version 2 (HARP2). The Bay Area Air Quality Management District's (BAAQMD's) *CEQA Air Quality Guidelines* (BAAQMD 2017) and the Office of Environmental Health Hazard Assessment's (OEHHA's) *Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments 2015* (2015 Risk Assessment Guidelines Manual; OEHHA 2015) were used to prepare this HRA. For the residential health risk, the HRA was calculated assuming exposure from construction-generated TAC emissions would generally occur 8 hours per day, 5 days per week, for the duration of construction (i.e., June 2023 through March 2024).

This HRA finds that unmitigated project construction would result in potential cancer risk at the at the maximally exposed individual resident (MEIR) of 1.05 in 1 million, which would not exceed the BAAQMD threshold of 10 in 1 million. The chronic hazard index would be 0.0019 at the MEIR, which would be below the BAAQMD threshold of 1.0. The maximum annual particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less ($PM_{2.5}$) concentrations would be 0.012 micrograms per cubic meter ($\mu g/m^3$) at the MEIR, which would be below the BAAQMD threshold of 0.3 $\mu g/m^3$. Project health risk impacts associated with construction would thus be less than significant. No short-term, acute relative exposure values are established and regulated for diesel particulate matter (DPM) and are therefore not addressed in this assessment.

1 INTRODUCTION

1.1 Purpose

In support of the initial study preparation for the Cal Softball Field Renovation Project (project or proposed project), the health risk assessment (HRA) modeling analysis was prepared to estimate health risk impacts to proximate existing sensitive receptors from exposure to toxic air contaminant (TAC) emissions from construction activities at the project site. The analysis in this HRA uses air dispersion modeling and Hotspots Analysis and Reporting Program Version 2 (HARP2) to evaluate potential health risks associated with the project. Results of the modeling analysis are compared with the most recent California Environmental Quality Act (CEQA) significance thresholds established by the Bay Area Air Quality Management District (BAAQMD). Per CEQA Guidelines, Appendix G (14 CCR 15000 et seq.), the HRA directly addresses the criterion: Would the project expose sensitive receptors to substantial pollutant concentrations?

1.2 Project Description

The University of California, Berkeley (UC Berkeley or the university) proposes to improve the existing Cal Softball Field (Cal Softball Field or field), which is the home for the UC Berkeley Intercollegiate Athletic (IA) Women's Softball Program. The project would preserve and upgrade the existing softball facility to meet modern safety and competition standards for the IA Women's Softball Program and Recreational Sports (Rec Sports) Intramural softball players, as well as support campus compliance with Title IX of the Education Amendments of 1972 (20 USC 1681 et seq.) (Title IX) through the provision of equitable athletics facilities for male and female student athletes. The project would improve the training and competition facilities provided to female student athletes, support ongoing gender equity and comply with Title IX. The use of the softball facility would remain largely similar to its current uses, primarily providing additional spectator and player amenities and permanent seating for up to 1,511 spectators. The primary physical changes associated with the project would include providing additional permanent spectator seats in place of temporary bleachers, a press box, spectator concourse, competition-grade lights, restrooms, public address system, expanded playing field dimensions, team and locker rooms, a ticket booth, improved training facilities, such as batting cages, and utilities.

The use of the proposed project would be similar to the use of the existing softball field. During the fall, the facility would be primarily used for practices, intramural play, campus/clinics, and other occasional daytime competitions. During the spring semester, the facility use would be comparatively more active, with up to 21 regular season softball events, as well as practices and intramural sports and activities when not scheduled for IA use. During the summer, the facility

would not be used for competition, but would be used for intramural recreation, as well as Rec Sports summer camps (similar to existing uses).

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-term) noncancer health effects. A toxic substance released into the air is considered a 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 systems and may be experienced through either acute or chronic exposure to a given TAC.

California's air toxics control program began in 1983 with the passage of Assembly Bill 1807, the Toxic Air Contaminant Identification and Control Act, better known as the Tanner Bill. The Tanner Bill established a regulatory process for the scientific and public review of individual toxic compounds. When a compound becomes listed as a TAC under the Tanner Bill, the California Air Resources Board (CARB) normally establishes minimum Statewide emission-control measures to be adopted by air quality management districts and air pollution control districts. By 1992, 18 of the 187 federal hazardous air pollutants had been listed by CARB as State TACs. In April 1993, CARB added 171 substances to the State program to make the State TAC list equal to the federal list of hazardous air pollutants. In 1998, CARB designated DPM as a TAC (CARB 1998). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens.

The second major component of California's air toxics program, supplementing the Tanner process, was provided by the passage of Assembly Bill 2588, the Air Toxics "Hot Spots" Information and Assessment Act of 1987. Assembly Bill 2588 currently regulates over 600 compounds, including all of the Tanner Bill–designated TACs.

1.4 Cancer Risk

Cancer risk is defined as the increase in lifetime probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased probability in 1 million. The cancer risk from inhalation of a TAC is estimated by calculating the inhalation (and if applicable, ingestion and dermal) dose in units of milligrams per kilogram body

weight per day based on an ambient concentration in units of micrograms per cubic meter ($\mu g/m^3$), breathing rate, and exposure period and multiplying the dose by the inhalation 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 current Office of Environmental Health Hazard Assessment (OEHHA) regulatory approach. Exposure to carcinogenic TACs does not imply that the exposed individual would contract cancer; rather, the cancer risk is a probability of developing cancer if other factors (e.g., heredity, exposure to environmental or workplace risks that compromise the immune system, overall health) would result in an increased susceptibility to developing cancer.

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 from project construction and operation are integrated in HARP2, in accordance with the 2015 Risk Assessment Guidelines Manual (OEHHA 2015).

1.5 Acute and Chronic 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 $\mu g/m^3$ divided by the reference exposure level (REL), also in units of $\mu g/m^3$. The REL is the concentration at or below which no adverse health effects are anticipated. The REL is typically based on health effects on 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.

2 GUIDANCE AND THRESHOLDS

2.1 Office of Environmental Health Hazard Assessment's Guidance

OEHHA's most recent guidance is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015), which supersedes the 2003 OEHHA HRA guidance manual, was used to calculate the health risk impacts from project construction and operation. The Children's Environmental Health Protection Act of 1999 (Senate Bill 25), which requires explicit consideration of infants and children in assessing risks from air toxics, requires revisions of the methods for both noncancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA guidance manual (OEHHA 2003). In response to Senate Bill 25, OEHHA released three technical support documents

addressing RELs (OEHHA 2008), cancer potency (OEHHA 2009), and exposure assessment and stochastic analysis (OEHHA 2012) and adopted the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). The technical support document 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 the exposure assessment and stochastic analysis technical support document and the 2015 Risk Assessment Guidelines 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 technical support document, "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 the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years and an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood (OEHHA 2015). The ASF for adults is 1. In addition to the ASFs, children have higher DBRs per unit of body weight than adults. The OEHHA guidance manual considers the age-specific breathing rates in the cancer risk calculations.

In addition, OEHHA and CARB evaluated information from activity patterns databases to estimate the fraction of time at home (FAH) during the day. From the third trimester to age <2 years, 85% of time is spent at home. From age 2 through <16 years, 72% of time is spent at home. From age 16 years and greater, 73% of time is spent at home. However, for facilities with any school within the 1 in a million or greater isopleth, the OEHHA recommends using an FAH of 100% for children under 16 years old (OEHHA 2015). As a conservative assumption, the FAH for children under 16 years old was assumed to be 100% in this analysis. Cancer risk parameters, such as ASFs, DBRs, exposure period, FAH, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in HARP2. Accordingly, this HRA evaluates and reflects conservative, health-protective methodologies to assess health impacts to adults, as well as infants, children, and other sensitive subpopulations.

2.2 Bay Area Air Quality Management District Guidance

The BAAMQD *CEQA Air Quality Guidelines* (BAAQMD 2017) provides cancer and noncancer thresholds to assess health risk significance. The BAAQMD's current health risk thresholds are presented in Table 1.

Table 1
BAAQMD Thresholds of Significance

Factor	Threshold
Risks and Hazards (Individual Project)	Compliance with Qualified Community Risk Reduction Plan or Increased cancer risk of >10.0 in a million Increased noncancer risk of >1.0 Hazard Index (Chronic or Acute) Ambient $PM_{2.5}$ increase >0.3 µg/m^3 annual average Zone of Influence: 1,000-foot radius from property line of source or receptor
Risks and Hazards (Cumulative)	Compliance with Qualified Community Risk Reduction Plan or Cancer risk of >100 in a million (from all local sources) Noncancer risk of >10.0 Hazard Index (chronic, from all local sources) Ambient $PM_{2.5}$ >0.8 µg/m^3 annual average (from all local sources) Zone of Influence: 1,000-foot radius from property line of source or receptor

Source: BAAQMD 2017
Notes: µg/m^3 = micrograms per cubic meter; $PM_{2.5}$ = fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less

3 RECEPTORS USED FOR EVALUATING MODELED IMPACTS

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Children, pregnant women, older adults, and people with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses where sensitive-receptor population groups are likely to be located at hospitals, medical clinics, schools, playgrounds, childcare centers, residences, and retirement homes (BAAQMD 2017). There are existing off-campus residences proximate to the project site, with the nearest at directly south of the project.

4 MODELING METHODOLOGY

4.1 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 school receptors. The transformation (fate) of an airborne

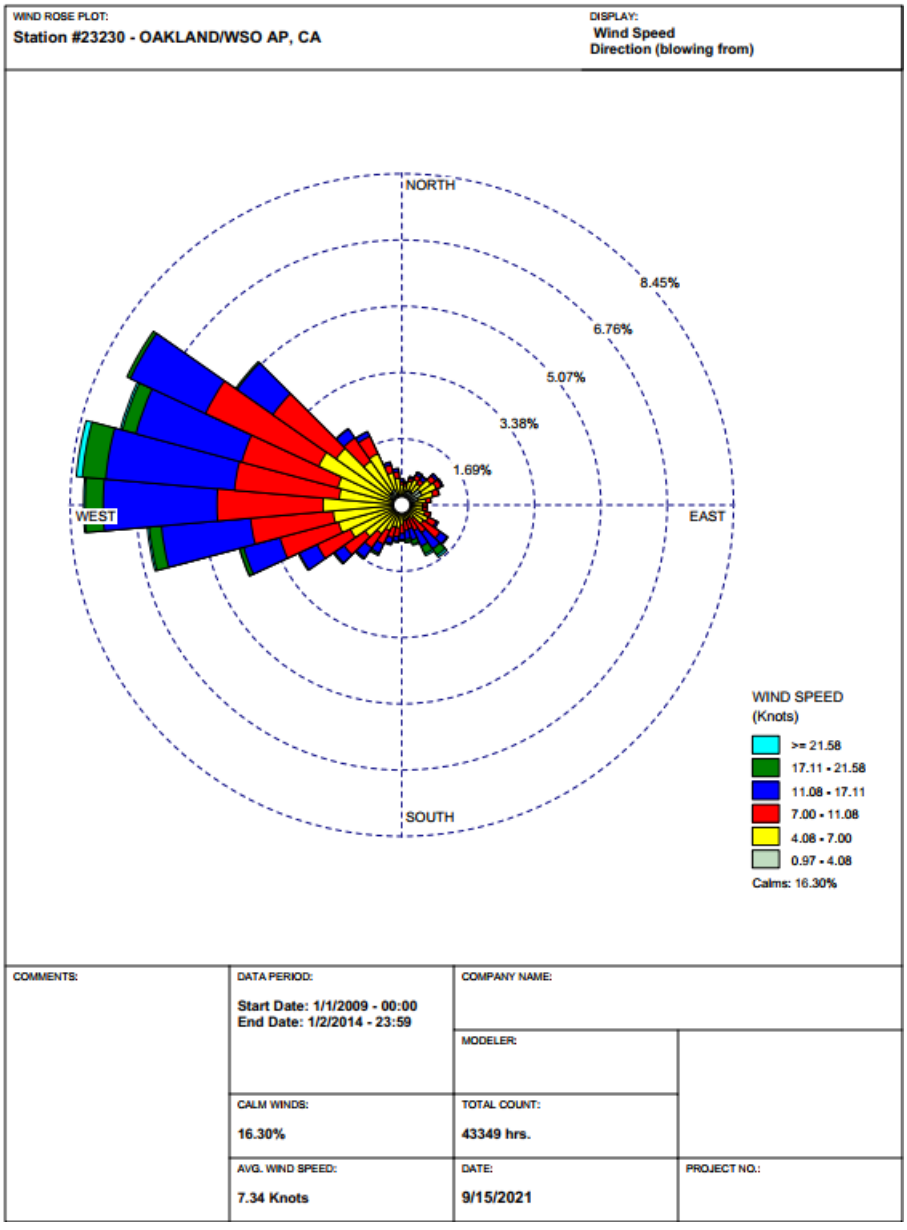
pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. 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.

A dispersion modeling analysis was conducted of DPM emitted from diesel vehicles and construction equipment on the proposed project site for the HRA to assess the health risk impacts of the project's construction on proximate sensitive receptors. Additionally, dispersion modeling was conducted for fugitive dust particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less ($PM_{2.5}$). The dispersion modeling was performed using AERMOD, which is the model U.S. Environmental Protection Agency (EPA) approved and BAAQMD recommends 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 surface and elevated sources, building downwash, and simple and complex terrain. Principal parameters of AERMOD for the project included the following:

- **Dispersion Model:** The air dispersion model used was AERMOD, Version 21112, with the Lakes Environmental Software implementation/user interface, AERMOD View, Version 10.2.1. A unit emission rate (1 gram per second (g/s)) was normalized over the line of adjacent volume sources and area source for the AERMOD run 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 maximum concentrations were determined for the 1-hour and Period averaging periods.
- **Meteorological Data:** The latest 5-year meteorological data (years 2009-2014) for the Oakland International Airport station were input to AERMOD. A wind rose is provided for this station on Figure 1.
- **Urban and Rural Options:** Typically, urban areas have more surface roughness and structures and low-albedo surfaces that absorb more sunlight, and thus, more heat, relative to rural areas. The urban dispersion option was selected and the Alameda County population for year 2019 (1,671,329 persons) input into AERMOD.
- **Terrain Characteristics:** Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. The National Elevation Dataset (NED) dataset with resolution of 1 arc-second was used.

- **Sensitive Receptors:** This HRA evaluates the risk to existing off-campus residential receptors located in proximity to the project. A uniform fine 1-kilometer by 1-kilometer Cartesian grid with 20-meter spacing was centered over the project site and converted into discrete receptors to capture the maximum point of impact.
- **Source Release Construction Scenario:** Air dispersion modeling of DPM emissions was conducted assuming the equipment and trucks would operate in accordance with the modeling scenario estimated in the California Emissions Estimator Model (CalEEMod) (Appendix A). The construction equipment and diesel truck DPM emissions were modeled as a line of adjacent volume sources across each project site to represent project construction with a release height of 5 meters, plume height of 10 meters, and plume width of 9 meters. Additionally, an area source was input on each of the construction sites to represent fugitive dust, with a release height of 2 meters.

Figure 1
Wind Rose of Meteorological Data – Oakland International Airport



Source: CARB 2021.

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4.2 Emission Calculations

Construction Emissions Calculations

Emissions from the construction phase of the project were estimated using CalEEMod Version 2020.4.0. Construction would likely occur through June 2023 through March 2024. For the HRA, we are concerned with DPM emitted from exhaust from on-site construction equipment and diesel vehicles (with $PM_{2.5}$ exhaust used as surrogate). Notably, the default construction on-road vehicle trip lengths were reduced to 0.19 miles (1,000 feet) to account for just localized emissions, such as on-site movement and pass-by emissions. Additionally, to determine total $PM_{2.5}$ concentrations, fugitive dust from earth movement were also estimated. Complete detailed construction assumptions are included in Appendix A.

Table 2 presents the estimated annual $PM_{2.5}$ emissions (exhaust and fugitive dust) generated during construction of the proposed project.

Table 2
Project Annual $PM_{2.5}$ Construction Emissions

Scenario	$PM_{2.5}$ Exhaust[1]	$PM_{2.5}$ Dust[2]
	Tons per year	
Total Construction 2023-2024	0.016	0.005

Notes: $PM_{2.5}$ = particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less.

1 Exhaust emissions are based on the "mitigated" CalEEMod output; however, incorporation of Tier 4 equipment is part of the project and is not considered mitigation.

2 Fugitive dust emissions account for the required BAAQMD best management practices for dust control, as implemented in the UC Berkeley Continuing Best Practice (CBP) AIR-2. As such, the controls are not considered mitigation.

4.3 Health Risk Assessment Methodology

In March 2015, the OEHHA approved the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). The construction and operational HRA was prepared following the 2015 Risk Assessment Guidelines Manual. Cancer and noncancer health risk calculations were performed for the project using ground-level unity emission concentration (X/Q) input from AERMOD. This modeling established the emissions dispersion field to the existing sensitive receptors from atmospheric influence of the source emissions. Plot files generated in AERMOD were then imported into HARP2, with ground level concentrations determined by multiplication of emission rates and X/Q values for each source of emissions. HARP2 then assessed resulting cancer and noncancer risk at the existing receptors from exposure to TAC emissions.

5 HEALTH RISK RESULTS

The cancer risk calculations were performed by multiplying the AERMOD-predicted DPM concentrations in $\mu g/m^3$ per unit g/s due to DPM emissions from trucks and construction equipment by the appropriate risk values. The potential exposure pathway for DPM includes inhalation only. The potential exposure through other pathways (e.g., ingestion) requires substance and site-specific data, and the specific parameters for DPM are not known for these pathways (CARB 1998).

The maximally exposed receptor would be the nearest off-site existing residence to the south of the project boundary, along Canyon Road. Potential health risk at the maximally exposed individual resident (MEIR) resulting from construction activities are shown in Table 3 below.

Table 3
Construction-Related Health Risk

Receptor	Cancer Risk (persons per million)	Chronic Impact	$PM_{2.5}$ Concentration ($\mu g/m^3$)
Maximally Exposed Individual Resident (MEIR)[1,2]	1.05	0.0019	0.012
BAAQMD Significance Criteria	10	1.0	0.3
Exceed Threshold?	No	No	No

Source: Appendix B.

Note: MEIR = maximally exposed individual resident; BAAQMD = Bay Area Air Quality Management District; $PM_{2.5}$ = fine particulate matter; UTM = Universal Transverse Mercator

Diesel exhaust exposure at proximate receptors was modeled with AERMOD, and then input into HARP2 to generate health risk estimates. Construction diesel particulate exposure was assumed to begin in the third trimester of pregnancy for a duration of 0.6 years of active construction. The total $PM_{2.5}$ concentrations include both exhaust and fugitive dust.

1 The MEIR for health risk impacts is directly south of the project at UTM coordinates 566170.46 meters Easting (m E)/ 4191774.22 meters Northing (m N).

2 Risk values are based on the "mitigated" CalEEMod emissions output; however, incorporation of Tier 4 equipment and fugitive dust controls are part of the project and are not considered mitigation.

As shown in Table 3, the incremental cancer risk at the MEIR of 1 in 1 million (assuming exposure starts in third trimester of pregnancy) from project construction would not exceed the BAAQMD threshold of 10 in 1 million. The chronic hazard index would be 0.0019 at the MEIR, which would be below the BAAQMD threshold of 1.0. The maximum annual $PM_{2.5}$ concentration would be 0.012 micrograms per cubic meter at the MEIR, which would be below the BAAQMD threshold of 0.3 micrograms per cubic meter. Based on the preceding considerations, potential health risk impacts associated with proposed project construction would be less than significant.

6 CONCLUSIONS

The results determined in this analysis reflect reasonable 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 combined use of the AERMOD dispersion model and the health impact calculations required by OEHHA and BAAQMD tend to overpredict impacts, such that they produce conservative (i.e., health-protective) results. For this reason, the estimated cancer risks and noncancer hazard indices reported in this analysis are likely upper-bound estimates for potential exposure to project-related emissions. In addition, the estimated cancer risks and noncancer hazard indices represent the maximum exposed individual (resident) and do not represent the risk over a broad area. The actual risks of cancer or noncancer effects from the project are likely to be lower than presented herein.

Based on this analysis, project construction would result in potential cancer risk, chronic health risk impacts, and $PM_{2.5}$ concentrations that would be less than significant without mitigation.

7 REFERENCES

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APPENDIX A

Emission Calculations

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cal Softball Field Renovation Project - Const HRA

Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.20	Acre	0.20	8,712.00	0
City Park	0.90	Acre	0.90	39,204.00	0
Health Club	60.43	1000sqft	1.01	60,429.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Levine-Fricke Field Renovation Project

Land Use - Proposed uses: 0.9 acre field (modeled as City Park), 60,429 sq ft of supportive buildings/structures (modeled as Health Club), and about 0.2 acres to be paved. ~2.11 acres to be graded

Construction Phase - Phase durations based on applicant input

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Cal Softball Field Renovation Project - Const HRA - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Trips and VMT - Default assumptions except for vendor truck trips added to Site Preparation and Grading phases to account for water trucks. Reduced triplengths to 1,000 feet to account for pass-bys

On-road Fugitive Dust - Default

Demolition - 2,410 sf of buildings/structures and 66,030 sf of impermeable surface to be demolished

Grading - Total soil import of 2,219 CY

Architectural Coating - Default

Vehicle Trips - Worst-case annual net increase of 26 average new daily trips based on 325x"Typical Days" plus 30x"Average Event Days" (which have max new trips) minus 10 days of federal holidays

Consumer Products - Default

Area Coating - Default

Landscape Equipment - Default. Conservative since landscaping likely minimal based on synthetic turf field.

Energy Use - No natural gas demand for the project as indicated by the applicant

Water And Wastewater - Zeroed out outdoor water for the proposed buildings/structures. Retained outdoor water for the "City Park" as a conservative estimate for the project since the field will be synthetic turf

Solid Waste - Default

Construction Off-road Equipment Mitigation - BAAQMD BMPs: Watering 2x/day and limiting vehicle speeds on unpaved areas to 15 mph. UCB will also require Tier 4 Final for all equipment >= 50 hp

Waste Mitigation - 54% waste diversion based on current campus average

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	168.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24NG	19.51	0.00
tblGrading	MaterialImported	0.00	2,219.00
tblLandUse	LandUseSquareFeet	60,430.00	60,429.00
tblLandUse	LotAcreage	1.39	1.01
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	1.96	30.86
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	2.19	30.86
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	0.78	30.86
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	OutdoorWaterUseRate	2,190,528.51	0.00

2.0 Emissions Summary

Cal Softball Field Renovation Project - Const HRA - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.1303	1.0643	1.0785	1.9100e-003	0.0296	0.0472	0.0767	0.0115	0.0449	0.0564	0.0000	160.6179	160.6179	0.0327	5.8000e-004	161.6086
2024	0.3597	0.3407	0.3946	6.8000e-004	9.0000e-005	0.0144	0.0145	3.0000e-005	0.0137	0.0138	0.0000	56.7186	56.7186	0.0114	1.8000e-004	57.0570
Maximum	**0.3597**	**1.0643**	**1.0785**	**1.9100e-003**	**0.0296**	**0.0472**	**0.0767**	**0.0115**	**0.0449**	**0.0564**	**0.0000**	**160.6179**	**160.6179**	**0.0327**	**5.8000e-004**	**161.6086**

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					
2023	0.0674	0.3507	1.1786	1.9100e-003	0.0135	0.0124	0.0258	5.2100e-003	0.0124	0.0176	0.0000	160.6177	160.6177	0.0327	5.8000e-004	161.6084
2024	0.3405	0.1251	0.4326	6.8000e-004	9.0000e-005	4.0400e-003	4.1300e-003	3.0000e-005	4.0400e-003	4.0700e-003	0.0000	56.7186	56.7186	0.0114	1.8000e-004	57.0569
Maximum	**0.3405**	**0.3507**	**1.1786**	**1.9100e-003**	**0.0135**	**0.0124**	**0.0258**	**5.2100e-003**	**0.0124**	**0.0176**	**0.0000**	**160.6177**	**160.6177**	**0.0327**	**5.8000e-004**	**161.6084**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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	N20	CO2e
Percent Reduction	**16.75**	**66.13**	**-9.38**	**0.00**	**54.32**	**73.36**	**67.16**	**54.47**	**72.05**	**69.16**	**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	**6-1-2023**	**8-31-2023**	0.5194	0.1416
2	**9-1-2023**	**11-30-2023**	0.5087	0.2079
3	**12-1-2023**	**2-29-2024**	0.4890	0.2040
4	**3-1-2024**	**5-31-2024**	0.3744	0.3281
		Highest	0.5194	0.3281

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	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
Mobile	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914
Waste						0.0000	0.0000		0.0000	0.0000	69.9365	0.0000	69.9365	4.1331	0.0000	173.2647
Water						0.0000	0.0000		0.0000	0.0000	1.1339	2.1366	3.2705	0.1168	2.7900e-003	7.0225
Total	**0.2796**	**0.0133**	**0.0994**	**2.1000e-004**	**0.0219**	**1.6000e-004**	**0.0220**	**5.8400e-003**	**1.5000e-004**	**5.9900e-003**	**71.0704**	**66.6786**	**137.7489**	**4.2586**	**4.7100e-003**	**245.6156**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

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	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
Mobile	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914
Waste						0.0000	0.0000		0.0000	0.0000	32.1708	0.0000	32.1708	1.9012	0.0000	79.7017
Water						0.0000	0.0000		0.0000	0.0000	1.1339	2.1366	3.2705	0.1168	2.7900e-003	7.0225
Total	**0.2796**	**0.0133**	**0.0994**	**2.1000e-004**	**0.0219**	**1.6000e-004**	**0.0220**	**5.8400e-003**	**1.5000e-004**	**5.9900e-003**	**33.3047**	**66.6786**	**99.9832**	**2.0267**	**4.7100e-003**	**152.0527**

	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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**53.14**	**0.00**	**27.42**	**52.41**	**0.00**	**38.09**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2023	6/28/2023	5	20	
2	Site Preparation	Site Preparation	6/29/2023	7/3/2023	5	3	
3	Grading	Grading	7/4/2023	7/11/2023	5	6	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	7/12/2023	3/1/2024	5	168	
5	Paving	Paving	3/2/2024	3/15/2024	5	10	
6	Architectural Coating	Architectural Coating	3/16/2024	3/29/2024	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 90,644; Non-Residential Outdoor: 30,215; Striped Parking Area: 523 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	5	13.00	0.00	51.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	2.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	277.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	8	46.00	18.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					5.5400e-003	0.0000	5.5400e-003	8.4000e-004	0.0000	8.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202
Total	**0.0147**	**0.1432**	**0.1346**	**2.4000e-004**	**5.5400e-003**	**6.7700e-003**	**0.0123**	**8.4000e-004**	**6.3300e-003**	**7.1700e-003**	**0.0000**	**21.0866**	**21.0866**	**5.3500e-003**	**0.0000**	**21.2202**

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	3.0000e-005	4.8000e-004	3.8000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0769	0.0769	0.0000	1.0000e-005	0.0806
Vendor	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
Worker	1.5000e-004	7.0000e-005	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0226	0.0226	2.0000e-005	1.0000e-005	0.0252
Total	**1.8000e-004**	**5.5000e-004**	**1.1000e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0995**	**0.0995**	**2.0000e-005**	**2.0000e-005**	**0.1057**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					2.4900e-003	0.0000	2.4900e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8100e-003	0.0122	0.1472	2.4000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202
Total	**2.8100e-003**	**0.0122**	**0.1472**	**2.4000e-004**	**2.4900e-003**	**3.7000e-004**	**2.8600e-003**	**3.8000e-004**	**3.7000e-004**	**7.5000e-004**	**0.0000**	**21.0865**	**21.0865**	**5.3500e-003**	**0.0000**	**21.2202**

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	3.0000e-005	4.8000e-004	3.8000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0769	0.0769	0.0000	1.0000e-005	0.0806
Vendor	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
Worker	1.5000e-004	7.0000e-005	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0226	0.0226	2.0000e-005	1.0000e-005	0.0252
Total	**1.8000e-004**	**5.5000e-004**	**1.1000e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0995**	**0.0995**	**2.0000e-005**	**2.0000e-005**	**0.1057**

Cal Softball Field Renovation Project - Const HRA - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
Total	**1.9500e-003**	**0.0214**	**0.0147**	**4.0000e-005**	**2.3900e-003**	**8.1000e-004**	**3.2000e-003**	**2.6000e-004**	**7.5000e-004**	**1.0100e-003**	**0.0000**	**3.2317**	**3.2317**	**1.0500e-003**	**0.0000**	**3.2578**

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	0.0000	4.0000e-005	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.6900e-003	5.6900e-003	0.0000	0.0000	5.9600e-003
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0800e-003	2.0800e-003	0.0000	0.0000	2.3200e-003
Total	**1.0000e-005**	**5.0000e-005**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.7700e-003**	**7.7700e-003**	**0.0000**	**0.0000**	**8.2800e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	1.9600e-003	0.0178	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
Total	**4.5000e-004**	**1.9600e-003**	**0.0178**	**4.0000e-005**	**1.0700e-003**	**6.0000e-005**	**1.1300e-003**	**1.2000e-004**	**6.0000e-005**	**1.8000e-004**	**0.0000**	**3.2317**	**3.2317**	**1.0500e-003**	**0.0000**	**3.2578**

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	0.0000	4.0000e-005	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.6900e-003	5.6900e-003	0.0000	0.0000	5.9600e-003
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0800e-003	2.0800e-003	0.0000	0.0000	2.3200e-003
Total	**1.0000e-005**	**5.0000e-005**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.7700e-003**	**7.7700e-003**	**0.0000**	**0.0000**	**8.2800e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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					0.0214	0.0000	0.0214	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
Total	**4.0000e-003**	**0.0434**	**0.0261**	**6.0000e-005**	**0.0214**	**1.8100e-003**	**0.0232**	**0.0103**	**1.6700e-003**	**0.0120**	**0.0000**	**5.4312**	**5.4312**	**1.7600e-003**	**0.0000**	**5.4751**

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	1.4000e-004	2.6100e-003	2.0700e-003	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4177	0.4177	1.0000e-005	7.0000e-005	0.4375
Vendor	0.0000	7.0000e-005	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0114	0.0114	0.0000	0.0000	0.0119
Worker	3.0000e-005	2.0000e-005	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.2100e-003	5.2100e-003	0.0000	0.0000	5.8100e-003
Total	**1.7000e-004**	**2.7000e-003**	**2.2900e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4343**	**0.4343**	**1.0000e-005**	**7.0000e-005**	**0.4553**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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					9.6200e-003	0.0000	9.6200e-003	4.6300e-003	0.0000	4.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	3.2800e-003	0.0327	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
Total	**7.6000e-004**	**3.2800e-003**	**0.0327**	**6.0000e-005**	**9.6200e-003**	**1.0000e-004**	**9.7200e-003**	**4.6300e-003**	**1.0000e-004**	**4.7300e-003**	**0.0000**	**5.4312**	**5.4312**	**1.7600e-003**	**0.0000**	**5.4751**

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	1.4000e-004	2.6100e-003	2.0700e-003	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4177	0.4177	1.0000e-005	7.0000e-005	0.4375
Vendor	0.0000	7.0000e-005	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0114	0.0114	0.0000	0.0000	0.0119
Worker	3.0000e-005	2.0000e-005	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.2100e-003	5.2100e-003	0.0000	0.0000	5.8100e-003
Total	**1.7000e-004**	**2.7000e-003**	**2.2900e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4343**	**0.4343**	**1.0000e-005**	**7.0000e-005**	**0.4553**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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					
Off-Road	0.1054	0.8379	0.8742	1.5400e-003		0.0377	0.0377		0.0362	0.0362	0.0000	127.7368	127.7368	0.0242	0.0000	128.3407
Total	**0.1054**	**0.8379**	**0.8742**	**1.5400e-003**		**0.0377**	**0.0377**		**0.0362**	**0.0362**	**0.0000**	**127.7368**	**127.7368**	**0.0242**	**0.0000**	**128.3407**

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	6.5000e-004	0.0137	9.8000e-003	2.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0990	2.0990	5.0000e-005	3.3000e-004	2.1980
Worker	3.2300e-003	1.4500e-003	0.0157	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4912	0.4912	3.4000e-004	1.6000e-004	0.5476
Total	**3.8800e-003**	**0.0151**	**0.0255**	**3.0000e-005**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**8.0000e-005**	**2.0000e-005**	**1.0000e-004**	**0.0000**	**2.5902**	**2.5902**	**3.9000e-004**	**4.9000e-004**	**2.7456**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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					
Off-Road	0.0591	0.3149	0.9519	1.5400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	127.7366	127.7366	0.0242	0.0000	128.3405
Total	**0.0591**	**0.3149**	**0.9519**	**1.5400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**127.7366**	**127.7366**	**0.0242**	**0.0000**	**128.3405**

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	6.5000e-004	0.0137	9.8000e-003	2.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0990	2.0990	5.0000e-005	3.3000e-004	2.1980
Worker	3.2300e-003	1.4500e-003	0.0157	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4912	0.4912	3.4000e-004	1.6000e-004	0.5476
Total	**3.8800e-003**	**0.0151**	**0.0255**	**3.0000e-005**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**8.0000e-005**	**2.0000e-005**	**1.0000e-004**	**0.0000**	**2.5902**	**2.5902**	**3.9000e-004**	**4.9000e-004**	**2.7456**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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					
Off-Road	0.0359	0.2885	0.3173	5.6000e-004		0.0121	0.0121		0.0116	0.0116	0.0000	46.7356	46.7356	8.7000e-003	0.0000	46.9533
Total	**0.0359**	**0.2885**	**0.3173**	**5.6000e-004**		**0.0121**	**0.0121**		**0.0116**	**0.0116**	**0.0000**	**46.7356**	**46.7356**	**8.7000e-003**	**0.0000**	**46.9533**

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	2.4000e-004	4.9800e-003	3.5400e-003	1.0000e-005	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.7549	0.7549	2.0000e-005	1.2000e-004	0.7904
Worker	1.0900e-003	4.9000e-004	5.5300e-003	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.1740	0.1740	1.1000e-004	6.0000e-005	0.1936
Total	**1.3300e-003**	**5.4700e-003**	**9.0700e-003**	**1.0000e-005**	**9.0000e-005**	**1.0000e-005**	**1.0000e-004**	**2.0000e-005**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**0.9288**	**0.9288**	**1.3000e-004**	**1.8000e-004**	**0.9840**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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					
Off-Road	0.0204	0.1125	0.3473	5.6000e-004		3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	46.7356	46.7356	8.7000e-003	0.0000	46.9532
Total	**0.0204**	**0.1125**	**0.3473**	**5.6000e-004**		**3.8000e-003**	**3.8000e-003**		**3.8000e-003**	**3.8000e-003**	**0.0000**	**46.7356**	**46.7356**	**8.7000e-003**	**0.0000**	**46.9532**

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	2.4000e-004	4.9800e-003	3.5400e-003	1.0000e-005	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.7549	0.7549	2.0000e-005	1.2000e-004	0.7904
Worker	1.0900e-003	4.9000e-004	5.5300e-003	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.1740	0.1740	1.1000e-004	6.0000e-005	0.1936
Total	**1.3300e-003**	**5.4700e-003**	**9.0700e-003**	**1.0000e-005**	**9.0000e-005**	**1.0000e-005**	**1.0000e-004**	**2.0000e-005**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**0.9288**	**0.9288**	**1.3000e-004**	**1.8000e-004**	**0.9840**

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3.6 Paving - 2024

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					
Off-Road	4.2100e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7574	7.7574	2.4600e-003	0.0000	7.8188
Paving	2.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4700e-003**	**0.0405**	**0.0585**	**9.0000e-005**		**1.9800e-003**	**1.9800e-003**		**1.8300e-003**	**1.8300e-003**	**0.0000**	**7.7574**	**7.7574**	**2.4600e-003**	**0.0000**	**7.8188**

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	0.0000	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
Worker	8.0000e-005	4.0000e-005	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0126	0.0126	1.0000e-005	0.0000	0.0140
Total	**8.0000e-005**	**4.0000e-005**	**4.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0126**	**0.0126**	**1.0000e-005**	**0.0000**	**0.0140**

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3.6 Paving - 2024

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					
Off-Road	1.3500e-003	6.4000e-003	0.0664	9.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.7573	7.7573	2.4600e-003	0.0000	7.8188
Paving	2.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6100e-003**	**6.4000e-003**	**0.0664**	**9.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.7573**	**7.7573**	**2.4600e-003**	**0.0000**	**7.8188**

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	0.0000	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
Worker	8.0000e-005	4.0000e-005	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0126	0.0126	1.0000e-005	0.0000	0.0140
Total	**8.0000e-005**	**4.0000e-005**	**4.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0126**	**0.0126**	**1.0000e-005**	**0.0000**	**0.0140**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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					
Archit. Coating	0.3169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.3178**	**6.0900e-003**	**9.0500e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	0.0000	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
Worker	5.0000e-005	2.0000e-005	2.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.5600e-003	7.5600e-003	0.0000	0.0000	8.4200e-003
Total	**5.0000e-005**	**2.0000e-005**	**2.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.5600e-003**	**7.5600e-003**	**0.0000**	**0.0000**	**8.4200e-003**

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3.7 Architectural Coating - 2024

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					
Archit. Coating	0.3169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.3171**	**6.4000e-004**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	0.0000	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
Worker	5.0000e-005	2.0000e-005	2.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.5600e-003	7.5600e-003	0.0000	0.0000	8.4200e-003
Total	**5.0000e-005**	**2.0000e-005**	**2.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.5600e-003**	**7.5600e-003**	**0.0000**	**0.0000**	**8.4200e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914
Unmitigated	0.0109	0.0133	0.0989	2.1000e-004	0.0219	1.6000e-004	0.0220	5.8400e-003	1.5000e-004	5.9900e-003	0.0000	19.2528	19.2528	1.2800e-003	1.0300e-003	19.5914

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	27.77	27.77	27.77	59,293	59,293
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	27.77	27.77	27.77	59,293	59,293

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Health Club	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Other Asphalt Surfaces	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.2881	45.2881	7.3300e-003	8.9000e-004	45.7359
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	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

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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	tons/yr										MT/yr					
City Park	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
Health Club	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
Other Asphalt Surfaces	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**

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5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
City Park	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
Health Club	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
Other Asphalt Surfaces	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**

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Health Club	489475	45.2881	7.3300e-003	8.9000e-004	45.7359
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**45.2881**	**7.3300e-003**	**8.9000e-004**	**45.7359**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Health Club	489475	45.2881	7.3300e-003	8.9000e-004	45.7359
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**45.2881**	**7.3300e-003**	**8.9000e-004**	**45.7359**

6.0 Area Detail

6.1 Mitigation Measures Area

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	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	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Unmitigated	0.2687	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-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	tons/yr										MT/yr					
Architectural Coating	0.0317					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Total	**0.2687**	**1.0000e-005**	**5.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**0.0000**	**1.1700e-003**

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6.2 Area by SubCategory

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	0.0317					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-003	1.1000e-003	0.0000	0.0000	1.1700e-003
Total	**0.2687**	**1.0000e-005**	**5.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**0.0000**	**1.1700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.2705	0.1168	2.7900e-003	7.0225
Unmitigated	3.2705	0.1168	2.7900e-003	7.0225

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.07233	0.3473	6.0000e-005	1.0000e-005	0.3507
Health Club	3.57402 / 0	2.9232	0.1168	2.7800e-003	6.6718
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.2705**	**0.1168**	**2.7900e-003**	**7.0225**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.07233	0.3473	6.0000e-005	1.0000e-005	0.3507
Health Club	3.57402 / 0	2.9232	0.1168	2.7800e-003	6.6718
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.2705**	**0.1168**	**2.7900e-003**	**7.0225**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.1708	1.9012	0.0000	79.7017
Unmitigated	69.9365	4.1331	0.0000	173.2647

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.08	0.0162	9.6000e-004	0.0000	0.0402
Health Club	344.45	69.9202	4.1322	0.0000	173.2244
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**69.9365**	**4.1331**	**0.0000**	**173.2647**

Cal Softball Field Renovation Project - Const HRA - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.0368	7.4700e-003	4.4000e-004	0.0000	0.0185
Health Club	158.447	32.1633	1.9008	0.0000	79.6832
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**32.1708**	**1.9012**	**0.0000**	**79.7018**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

APPENDIX B

HARP2 and AERMOD Output Files

Cal Softball Fields Project Construction HRA - Cancer Risk - Sorted Max to Min

*HARP - HRACalc v22118 7/18/2022 1:46:57 PM

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_R	EGG_RISK
1187	ALL		566170.46	4191774.22	1.05E-06	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL		566190.46	4191774.22	1.02E-06	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL		566130.46	4191754.22	5.92E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL		566150.46	4191754.22	5.36E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL		566170.46	4191754.22	4.69E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL		566190.46	4191754.22	4.43E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL		566110.46	4191734.22	3.64E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL		566130.46	4191734.22	3.41E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL		566150.46	4191734.22	2.91E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL		566170.46	4191734.22	2.52E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL		566190.46	4191734.22	2.36E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL		566090.46	4191714.22	2.32E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL		566110.46	4191714.22	2.16E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL		566070.46	4191714.22	2.13E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL		566130.46	4191714.22	1.96E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL		566150.46	4191714.22	1.72E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL		566070.46	4191694.22	1.68E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL		566090.46	4191694.22	1.56E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL		566170.46	4191714.22	1.54E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL		566050.46	4191694.22	1.52E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL		566190.46	4191714.22	1.48E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL		566110.46	4191694.22	1.40E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL		566270.46	4191694.22	1.38E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL		566250.46	4191694.22	1.27E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL		566130.46	4191694.22	1.23E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL		566050.46	4191674.22	1.21E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL		566070.46	4191674.22	1.18E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL		566230.46	4191694.22	1.15E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL		566030.46	4191674.22	1.15E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL		566150.46	4191694.22	1.10E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL		566090.46	4191674.22	1.07E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL		566210.46	4191694.22	1.05E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL		566290.46	4191674.22	1.05E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL		566170.46	4191694.22	1.02E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL		566010.46	4191674.22	1.02E-07	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL		566190.46	4191694.22	9.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL		566270.46	4191674.22	9.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL		566110.46	4191674.22	9.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL		566030.46	4191654.22	9.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL		566010.46	4191654.22	8.91E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL		566050.46	4191654.22	8.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL		566250.46	4191674.22	8.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL		566070.46	4191654.22	8.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL		566130.46	4191674.22	8.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL		566310.46	4191654.22	8.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL		566230.46	4191674.22	7.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL		566010.46	4191634.22	7.78E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL		566390.46	4191634.22	7.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL		566290.46	4191654.22	7.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL		566150.46	4191674.22	7.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL		566090.46	4191654.22	7.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL		566370.46	4191634.22	7.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL		566210.46	4191674.22	7.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL		566030.46	4191634.22	7.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL		566170.46	4191674.22	7.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1060	ALL	566350.46	4191634.22	7.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	566190.46	4191674.22	7.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	566270.46	4191654.22	7.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	565990.46	4191634.22	7.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	566010.46	4191614.22	6.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	566050.46	4191634.22	6.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	566330.46	4191634.22	6.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	566110.46	4191654.22	6.69E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	566470.46	4191614.22	6.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	566450.46	4191614.22	6.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	566490.46	4191614.22	6.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	566430.46	4191614.22	6.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	566510.46	4191614.22	6.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	566410.46	4191614.22	6.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	566030.46	4191614.22	6.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	566250.46	4191654.22	6.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	566070.46	4191634.22	6.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	566310.46	4191634.22	6.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	566530.46	4191614.22	6.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	565970.46	4191634.22	6.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	566390.46	4191614.22	6.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	565990.46	4191614.22	6.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	566550.46	4191614.22	6.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	566010.46	4191594.22	6.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	566130.46	4191654.22	5.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	566370.46	4191614.22	5.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	566570.46	4191614.22	5.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	566230.46	4191654.22	5.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	566290.46	4191634.22	5.86E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	566490.46	4191594.22	5.77E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	566470.46	4191594.22	5.77E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	566090.46	4191634.22	5.76E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	566510.46	4191594.22	5.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	566450.46	4191594.22	5.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	566030.46	4191594.22	5.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	566050.46	4191614.22	5.66E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	566350.46	4191614.22	5.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	566530.46	4191594.22	5.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	566430.46	4191594.22	5.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	565950.46	4191634.22	5.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	565970.46	4191614.22	5.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	566210.46	4191654.22	5.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	566550.46	4191594.22	5.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	565990.46	4191594.22	5.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	566150.46	4191654.22	5.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	566570.46	4191594.22	5.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	566410.46	4191594.22	5.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	566270.46	4191634.22	5.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	566330.46	4191614.22	5.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	566190.46	4191654.22	5.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	566010.46	4191574.22	5.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	566170.46	4191654.22	5.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	566030.46	4191574.22	5.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	566070.46	4191614.22	5.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	566110.46	4191634.22	5.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	566610.64	4191596.95	5.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	566390.46	4191594.22	5.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	566510.46	4191574.22	5.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	566490.46	4191574.22	5.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

916	ALL	566530.46	4191574.22	5.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	565950.46	4191614.22	5.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	566050.46	4191594.22	5.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	565930.46	4191634.22	5.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	566470.46	4191574.22	5.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	566550.46	4191574.22	5.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	565970.46	4191594.22	4.99E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	566310.46	4191614.22	4.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	566570.46	4191574.22	4.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	566250.46	4191634.22	4.94E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	566450.46	4191574.22	4.93E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	566030.46	4191554.22	4.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	565990.46	4191574.22	4.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	566370.46	4191594.22	4.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	566594.96	4191572.56	4.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	566430.46	4191574.22	4.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	566090.46	4191614.22	4.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	566010.46	4191554.22	4.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	566130.46	4191634.22	4.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	566290.46	4191614.22	4.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	566230.46	4191634.22	4.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	566410.46	4191574.22	4.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	566050.46	4191574.22	4.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	565930.46	4191614.22	4.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	566350.46	4191594.22	4.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	566570.46	4191554.22	4.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	566070.46	4191594.22	4.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	565950.46	4191594.22	4.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	566550.46	4191554.22	4.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	566530.46	4191554.22	4.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	565910.46	4191634.22	4.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	566510.46	4191554.22	4.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	565970.46	4191574.22	4.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	566490.46	4191554.22	4.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	566470.46	4191554.22	4.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	566030.46	4191534.22	4.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	566210.46	4191634.22	4.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	565990.46	4191554.22	4.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	566390.46	4191574.22	4.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	566450.46	4191554.22	4.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	566050.46	4191554.22	4.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	566330.46	4191594.22	4.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	566150.46	4191634.22	4.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	566570.46	4191534.22	4.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	566270.46	4191614.22	4.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	566430.46	4191554.22	4.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	566110.46	4191614.22	4.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	566550.46	4191534.22	4.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	566190.46	4191634.22	4.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	565930.46	4191594.22	4.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	566676.84	4191551.66	4.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	566010.46	4191534.22	4.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	565910.46	4191614.22	4.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	566170.46	4191634.22	4.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	566530.46	4191534.22	4.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	566050.46	4191534.22	4.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	565950.46	4191574.22	4.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	566510.46	4191534.22	4.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	566070.46	4191574.22	4.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

908	ALL	566370.46	4191574.22	4.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	566410.46	4191554.22	4.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	565890.46	4191634.22	4.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	566490.46	4191534.22	4.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	566310.46	4191594.22	4.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	565970.46	4191554.22	4.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	566570.46	4191514.22	4.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	566090.46	4191594.22	4.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	566250.46	4191614.22	4.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	566050.46	4191514.22	3.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	566470.46	4191534.22	3.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	566550.46	4191514.22	3.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	566582.76	4191498.52	3.93E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	566030.46	4191514.22	3.93E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	565990.46	4191534.22	3.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	566530.46	4191514.22	3.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	566450.46	4191534.22	3.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	566130.46	4191614.22	3.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	566390.46	4191554.22	3.86E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	566350.46	4191574.22	3.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	565910.46	4191594.22	3.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	566570.46	4191494.22	3.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	565930.46	4191574.22	3.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	566070.46	4191554.22	3.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	566510.46	4191514.22	3.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	566290.46	4191594.22	3.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	566230.46	4191614.22	3.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	566430.46	4191534.22	3.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	565890.46	4191614.22	3.78E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	565950.46	4191554.22	3.77E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	566010.46	4191514.22	3.74E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	566490.46	4191514.22	3.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	566550.46	4191494.22	3.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	566410.46	4191534.22	3.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	565870.46	4191634.22	3.66E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	565970.46	4191534.22	3.66E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	566607.15	4191478.49	3.66E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	566210.46	4191614.22	3.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	566110.46	4191594.22	3.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	566050.46	4191494.22	3.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	566150.46	4191614.22	3.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	566530.46	4191494.22	3.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	566330.46	4191574.22	3.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	566470.46	4191514.22	3.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	566370.46	4191554.22	3.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	566070.46	4191534.22	3.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	566270.46	4191594.22	3.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	566090.46	4191574.22	3.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	566190.46	4191614.22	3.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	566390.46	4191534.22	3.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	566170.46	4191614.22	3.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	566570.46	4191474.22	3.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	566510.46	4191494.22	3.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	565990.46	4191514.22	3.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	566030.46	4191494.22	3.52E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	565910.46	4191574.22	3.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	565930.46	4191554.22	3.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	566450.46	4191514.22	3.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	565890.46	4191594.22	3.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

710	ALL	566490.46	4191494.22	3.47E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	566550.46	4191474.22	3.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	566430.46	4191514.22	3.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	566070.46	4191514.22	3.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	565950.46	4191534.22	3.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	566250.46	4191594.22	3.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	566310.46	4191574.22	3.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	565870.46	4191614.22	3.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	566410.46	4191514.22	3.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	566130.46	4191594.22	3.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	566010.46	4191494.22	3.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	566470.46	4191494.22	3.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	566350.46	4191554.22	3.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	566530.46	4191474.22	3.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	566370.46	4191534.22	3.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	566070.46	4191494.22	3.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	565970.46	4191514.22	3.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	566390.46	4191514.22	3.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	565850.46	4191634.22	3.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	566050.46	4191474.22	3.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	566230.46	4191594.22	3.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	566090.46	4191554.22	3.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	566510.46	4191474.22	3.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	566290.46	4191574.22	3.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	566070.46	4191474.22	3.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	566639.38	4191459.32	3.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	565910.46	4191554.22	3.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	565890.46	4191574.22	3.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	566450.46	4191494.22	3.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	566110.46	4191574.22	3.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	566570.46	4191454.22	3.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	566490.46	4191474.22	3.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	566150.46	4191594.22	3.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	565930.46	4191534.22	3.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	566210.46	4191594.22	3.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	565990.46	4191494.22	3.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	565870.46	4191594.22	3.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	566030.46	4191474.22	3.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	566370.46	4191514.22	3.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	566330.46	4191554.22	3.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	566550.46	4191454.22	3.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	566170.46	4191594.22	3.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	566190.46	4191594.22	3.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	565830.46	4191654.22	3.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	566430.46	4191494.22	3.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	566270.46	4191574.22	3.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	565950.46	4191514.22	3.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	566090.46	4191534.22	3.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	566470.46	4191474.22	3.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	566350.46	4191534.22	3.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	565850.46	4191614.22	3.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	566530.46	4191454.22	3.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	566410.46	4191494.22	3.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	566070.46	4191454.22	3.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	566390.46	4191494.22	3.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	566010.46	4191474.22	3.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	566250.46	4191574.22	2.99E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	565970.46	4191494.22	2.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	565890.46	4191554.22	2.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

854	ALL	566310.46	4191554.22	2.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	566370.46	4191494.22	2.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	566450.46	4191474.22	2.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	566090.46	4191514.22	2.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	566130.46	4191574.22	2.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	566510.46	4191454.22	2.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	565910.46	4191534.22	2.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	565870.46	4191574.22	2.95E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	566050.46	4191454.22	2.94E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	565830.46	4191634.22	2.94E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	566350.46	4191514.22	2.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	566090.46	4191454.22	2.91E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	565930.46	4191514.22	2.90E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	566490.46	4191454.22	2.90E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	566587.99	4191437.55	2.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	566230.46	4191574.22	2.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	565850.46	4191594.22	2.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	566110.46	4191554.22	2.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	566330.46	4191534.22	2.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	566430.46	4191474.22	2.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	566290.46	4191554.22	2.86E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	566090.46	4191494.22	2.86E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	565990.46	4191474.22	2.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	566150.46	4191574.22	2.84E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	566470.46	4191454.22	2.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	566210.46	4191574.22	2.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	566030.46	4191454.22	2.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	566350.46	4191494.22	2.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	565950.46	4191494.22	2.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	566570.46	4191434.22	2.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	566090.46	4191434.22	2.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	565810.46	4191654.22	2.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	566170.46	4191574.22	2.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	566410.46	4191474.22	2.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	566090.46	4191474.22	2.79E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	566190.46	4191574.22	2.79E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	565830.46	4191614.22	2.78E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	566270.46	4191554.22	2.77E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	566550.46	4191434.22	2.77E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	565870.46	4191554.22	2.76E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	566390.46	4191474.22	2.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	565890.46	4191534.22	2.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	566450.46	4191454.22	2.74E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	566310.46	4191534.22	2.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	566635.9	4191431.45	2.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	566070.46	4191434.22	2.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	565910.46	4191514.22	2.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	566330.46	4191514.22	2.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	566370.46	4191474.22	2.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	565850.46	4191574.22	2.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	566110.46	4191534.22	2.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	566530.46	4191434.22	2.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	565970.46	4191474.22	2.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	566010.46	4191454.22	2.69E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	566250.46	4191554.22	2.69E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	566210.46	4191414.22	2.69E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	566110.46	4191434.22	2.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	565810.46	4191634.22	2.66E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	566230.46	4191414.22	2.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

652	ALL	566350.46	4191474.22	2.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	565930.46	4191494.22	2.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	566430.46	4191454.22	2.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	566130.46	4191554.22	2.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	566290.46	4191534.22	2.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	566330.46	4191494.22	2.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	566510.46	4191434.22	2.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	565830.46	4191594.22	2.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	566050.46	4191434.22	2.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	566868.47	4191523.78	2.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	566110.46	4191514.22	2.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	566230.46	4191554.22	2.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	566190.46	4191414.22	2.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	566270.46	4191534.22	2.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	565810.46	4192174.22	2.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	566110.46	4191414.22	2.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	566410.46	4191454.22	2.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	566490.46	4191434.22	2.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	566310.46	4191514.22	2.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	565770.46	4192174.22	2.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	566210.46	4191554.22	2.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	565990.46	4191454.22	2.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	565870.46	4191534.22	2.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	565950.46	4191474.22	2.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	565790.46	4192174.22	2.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	566150.46	4191554.22	2.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	566110.46	4191494.22	2.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	565850.46	4191554.22	2.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	566190.46	4191554.22	2.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	565890.46	4191514.22	2.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	566210.46	4191394.22	2.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	566170.46	4191554.22	2.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	566330.46	4191474.22	2.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	565810.46	4191614.22	2.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	566250.46	4191434.22	2.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	565790.46	4191654.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	566470.46	4191434.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	566230.46	4191434.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	565810.46	4192194.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	566390.46	4191454.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	566030.46	4191434.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	565750.46	4192174.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	566250.46	4191534.22	2.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	566130.46	4191414.22	2.52E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	566090.46	4191414.22	2.52E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	566290.46	4191514.22	2.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	566190.46	4191394.22	2.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	566310.46	4191494.22	2.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	566230.46	4191394.22	2.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	566350.46	4191454.22	2.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	566110.46	4191474.22	2.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	565910.46	4191494.22	2.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	566270.46	4191514.22	2.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	565830.46	4191574.22	2.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	566450.46	4191434.22	2.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	566130.46	4191534.22	2.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	566370.46	4191454.22	2.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	566270.46	4191434.22	2.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	565790.46	4192194.22	2.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

589	ALL	566110.46	4191454.22	2.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	566330.46	4191454.22	2.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	566170.46	4191394.22	2.47E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	566250.46	4191414.22	2.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	565970.46	4191454.22	2.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	566230.46	4191534.22	2.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	566290.46	4191434.22	2.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	566310.46	4191434.22	2.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	566310.46	4191474.22	2.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	566250.46	4191454.22	2.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	565730.46	4192174.22	2.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	566070.46	4191414.22	2.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	566150.46	4191394.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	566310.46	4191454.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	565930.46	4191474.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	566570.46	4191414.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	566330.46	4191434.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	566290.46	4191494.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	566010.46	4191434.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	566430.46	4191434.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	565790.46	4191634.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	566210.46	4191434.22	2.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	565810.46	4191594.22	2.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	566250.46	4191514.22	2.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	566270.46	4191494.22	2.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	565770.46	4192194.22	2.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	566210.46	4191534.22	2.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	566270.46	4191454.22	2.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	566550.46	4191414.22	2.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	566130.46	4191394.22	2.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	566170.46	4191414.22	2.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	565850.46	4191534.22	2.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	566290.46	4191454.22	2.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	565870.46	4191514.22	2.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	566150.46	4191534.22	2.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	566130.46	4191514.22	2.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	566190.46	4191534.22	2.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	566350.46	4191434.22	2.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	565710.46	4192174.22	2.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	566250.46	4191494.22	2.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	566170.46	4191534.22	2.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	565810.46	4192214.22	2.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	566410.46	4191434.22	2.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	566290.46	4191474.22	2.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	566250.46	4191474.22	2.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	566270.46	4191474.22	2.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	566270.46	4191414.22	2.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	565890.46	4191494.22	2.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	565830.46	4191554.22	2.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	566530.46	4191414.22	2.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	566050.46	4191414.22	2.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	565950.46	4191454.22	2.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	566390.46	4191434.22	2.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	566230.46	4191514.22	2.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	566230.46	4191454.22	2.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	566110.46	4191394.22	2.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	566130.46	4191494.22	2.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	565690.46	4192174.22	2.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	565990.46	4191434.22	2.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

551	ALL	566370.46	4191434.22	2.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	566150.46	4191414.22	2.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	565790.46	4191614.22	2.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	566210.46	4191374.22	2.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	566290.46	4191414.22	2.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	566616.73	4191406.19	2.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	565750.46	4192194.22	2.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	565810.46	4191574.22	2.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	565910.46	4191474.22	2.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	565770.46	4191654.22	2.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	566130.46	4191434.22	2.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	566510.46	4191414.22	2.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	566130.46	4191474.22	2.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	566310.46	4191414.22	2.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	565790.46	4192214.22	2.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	566210.46	4191514.22	2.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	566250.46	4191394.22	2.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	566230.46	4191494.22	2.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	566190.46	4191374.22	2.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	566150.46	4191514.22	2.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	566190.46	4191434.22	2.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	566030.46	4191414.22	2.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	566230.46	4191374.22	2.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	566190.46	4191514.22	2.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	566230.46	4191474.22	2.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	566090.46	4191394.22	2.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	565710.46	4192034.22	2.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	566130.46	4191454.22	2.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	566170.46	4191514.22	2.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	565710.46	4192014.22	2.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	566330.46	4191414.22	2.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	565850.46	4191514.22	2.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	566170.46	4191374.22	2.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	565970.46	4191434.22	2.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	565730.46	4192194.22	2.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	565930.46	4191454.22	2.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	565710.46	4191994.22	2.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	566490.46	4191414.22	2.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	565790.46	4191594.22	2.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	565870.46	4191494.22	2.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	565830.46	4191534.22	2.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	566210.46	4191454.22	2.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	565770.46	4191634.22	2.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	565810.46	4192234.22	2.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	566150.46	4191494.22	2.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	565710.46	4191974.22	2.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	566150.46	4191374.22	2.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	566210.46	4191494.22	2.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	566010.46	4191414.22	2.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	565710.46	4191954.22	2.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	566350.46	4191414.22	2.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	565810.46	4191554.22	2.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	565770.46	4192214.22	2.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	565890.46	4191474.22	2.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	565710.46	4191934.22	2.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	566470.46	4191414.22	2.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	565710.46	4192194.22	2.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	566070.46	4191394.22	2.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	565710.46	4191914.22	2.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

645	ALL	566210.46	4191474.22	2.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	566450.46	4191414.22	2.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	565690.46	4192194.22	2.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	566270.46	4191394.22	2.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	566190.46	4191494.22	2.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	565710.46	4191894.22	2.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	566170.46	4191434.22	2.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	566130.46	4191374.22	2.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	566150.46	4191434.22	2.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	566170.46	4191494.22	2.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	566430.46	4191414.22	2.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	566150.46	4191474.22	2.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	565950.46	4191434.22	2.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	565710.46	4191874.22	2.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	565670.46	4192194.22	2.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	566370.46	4191414.22	2.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	566410.46	4191414.22	2.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	565770.46	4191614.22	2.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	565790.46	4191574.22	2.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	565910.46	4191454.22	2.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	566390.46	4191414.22	2.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	565710.46	4191854.22	2.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	566190.46	4191454.22	2.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	565990.46	4191414.22	2.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	566210.46	4191354.22	2.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	565790.46	4192234.22	2.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	566050.46	4191394.22	2.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	566150.46	4191454.22	2.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	566290.46	4191394.22	2.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	565710.46	4191834.22	2.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	566190.46	4191474.22	2.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	566570.46	4191394.22	2.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	566250.46	4191374.22	2.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	565750.46	4191654.22	2.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	566110.46	4191374.22	2.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	565850.46	4191494.22	2.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	566170.46	4191474.22	2.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	565750.46	4192214.22	2.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	565830.46	4191514.22	2.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	566230.46	4191354.22	2.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	565710.46	4191814.22	2.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	566190.46	4191354.22	2.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	565730.46	4191714.22	2.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	566550.46	4191394.22	2.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	566170.46	4191454.22	2.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	566310.46	4191394.22	2.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	565810.46	4191534.22	2.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	565870.46	4191474.22	2.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	565650.46	4192194.22	2.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	565690.46	4192054.22	2.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	565710.46	4191794.22	2.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	566030.46	4191394.22	2.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	565930.46	4191434.22	2.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	565690.46	4192034.22	2.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	565690.46	4192074.22	2.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	565770.46	4191594.22	2.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	565690.46	4192014.22	2.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	565970.46	4191414.22	2.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	566170.46	4191354.22	2.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

457	ALL	566530.46	4191394.22	2.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	565690.46	4191994.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	565730.46	4192214.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	565790.46	4191554.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	565890.46	4191454.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	565750.46	4191634.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	566090.46	4191374.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	565730.46	4191694.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	565770.46	4192234.22	2.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	566330.46	4191394.22	2.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	565710.46	4191774.22	2.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	565690.46	4191974.22	2.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	566871.96	4191416.64	2.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	566150.46	4191354.22	2.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	566010.46	4191394.22	2.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	565690.46	4191954.22	2.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	565710.46	4192214.22	2.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	565690.46	4191934.22	1.99E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	565690.46	4191914.22	1.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	566270.46	4191374.22	1.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	566510.46	4191394.22	1.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	565710.46	4191754.22	1.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	565950.46	4191414.22	1.98E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	565730.46	4191674.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	566350.46	4191394.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	565690.46	4192214.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	565770.46	4191574.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	566070.46	4191374.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	565650.46	4192214.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	565910.46	4191434.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	565690.46	4191894.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	565670.46	4192214.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	565830.46	4191494.22	1.97E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	566250.46	4191354.22	1.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	565810.46	4191514.22	1.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	565750.46	4191614.22	1.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	565850.46	4191474.22	1.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	566130.46	4191354.22	1.96E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	565690.46	4191874.22	1.95E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	566230.46	4191334.22	1.95E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	565750.46	4192234.22	1.95E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	566210.46	4191334.22	1.95E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	565990.46	4191394.22	1.94E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	565710.46	4191734.22	1.94E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	566370.46	4191394.22	1.94E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	565690.46	4191854.22	1.94E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	565790.46	4191534.22	1.93E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	565870.46	4191454.22	1.93E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	565690.46	4191834.22	1.93E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	566290.46	4191374.22	1.93E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	566050.46	4191374.22	1.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	565730.46	4191654.22	1.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	565630.46	4192214.22	1.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	566490.46	4191394.22	1.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	566190.46	4191334.22	1.92E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	565690.46	4191814.22	1.91E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	566390.46	4191394.22	1.91E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	566600.18	4191377.44	1.91E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	566110.46	4191354.22	1.90E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

478	ALL	565930.46	4191414.22	1.90E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	565710.46	4191714.22	1.90E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	566410.46	4191394.22	1.90E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	565750.46	4191594.22	1.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	565670.46	4192054.22	1.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	565730.46	4192234.22	1.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	565670.46	4192034.22	1.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	565670.46	4192074.22	1.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	565770.46	4191554.22	1.89E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	565690.46	4191794.22	1.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	565890.46	4191434.22	1.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	565670.46	4192014.22	1.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	566170.46	4191334.22	1.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	565970.46	4191394.22	1.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	566310.46	4191374.22	1.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	566430.46	4191394.22	1.88E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	566030.46	4191374.22	1.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	566470.46	4191394.22	1.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	566450.46	4191394.22	1.87E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	565670.46	4191994.22	1.86E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	565730.46	4191634.22	1.86E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	565710.46	4192234.22	1.86E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	565710.46	4191694.22	1.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	565810.46	4191494.22	1.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	565690.46	4191774.22	1.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	565830.46	4191474.22	1.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	565630.46	4192194.22	1.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	566250.46	4191334.22	1.85E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	566570.46	4191374.22	1.84E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	566090.46	4191354.22	1.84E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	565670.46	4191974.22	1.84E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	565630.46	4192234.22	1.84E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	566150.46	4191334.22	1.84E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	565790.46	4191514.22	1.84E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	565670.46	4191954.22	1.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	565850.46	4191454.22	1.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	566010.46	4191374.22	1.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	565750.46	4191574.22	1.83E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	565690.46	4192234.22	1.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	565910.46	4191414.22	1.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	565650.46	4192234.22	1.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	565950.46	4191394.22	1.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	565670.46	4191934.22	1.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	566330.46	4191374.22	1.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	566550.46	4191374.22	1.82E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	565690.46	4191754.22	1.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	565710.46	4191674.22	1.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	565670.46	4191914.22	1.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	566230.46	4191314.22	1.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	565670.46	4192234.22	1.81E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	566270.46	4191354.22	1.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	565730.46	4191614.22	1.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	565770.46	4191534.22	1.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	565870.46	4191434.22	1.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	566070.46	4191354.22	1.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	565670.46	4191894.22	1.80E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	566210.46	4191314.22	1.79E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	566130.46	4191334.22	1.79E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	565610.46	4192234.22	1.79E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1389	ALL	566934.68	4191400.96	1.78E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	565670.46	4191874.22	1.78E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	565990.46	4191374.22	1.78E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	565690.46	4191734.22	1.78E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	566530.46	4191374.22	1.77E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	565670.46	4191854.22	1.77E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	566190.46	4191314.22	1.76E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	565710.46	4191654.22	1.76E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	565670.46	4191834.22	1.76E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	565930.46	4191394.22	1.76E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	565750.46	4191554.22	1.76E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	566350.46	4191374.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	566050.46	4191354.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	565890.46	4191414.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	565730.46	4191594.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	565810.46	4191474.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	565650.46	4192054.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	565670.46	4191814.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	565650.46	4192034.22	1.75E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	566110.46	4191334.22	1.74E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	565650.46	4192074.22	1.74E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	565790.46	4191494.22	1.74E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	565690.46	4191714.22	1.74E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	566290.46	4191354.22	1.74E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	565830.46	4191454.22	1.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	565650.46	4192014.22	1.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	566170.46	4191314.22	1.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	565650.46	4192094.22	1.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	565970.46	4191374.22	1.73E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	565670.46	4191794.22	1.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	565770.46	4191514.22	1.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	565650.46	4191994.22	1.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	565650.46	4192114.22	1.72E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	566030.46	4191354.22	1.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	565850.46	4191434.22	1.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	565710.46	4191634.22	1.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	566510.46	4191374.22	1.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	565610.46	4192214.22	1.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	566370.46	4191374.22	1.71E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	565690.46	4191694.22	1.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	565650.46	4191974.22	1.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	566150.46	4191314.22	1.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	566090.46	4191334.22	1.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	565670.46	4191774.22	1.70E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	565730.46	4191574.22	1.69E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	565910.46	4191394.22	1.69E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	566250.46	4191314.22	1.69E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	565750.46	4191534.22	1.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	565650.46	4191954.22	1.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	566310.46	4191354.22	1.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	565950.46	4191374.22	1.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	565870.46	4191414.22	1.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	566230.46	4191294.22	1.68E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	566010.46	4191354.22	1.67E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	565650.46	4191934.22	1.67E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	566390.46	4191374.22	1.67E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	565670.46	4191754.22	1.67E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	565690.46	4191674.22	1.66E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	565710.46	4191614.22	1.66E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

186	ALL	566210.46	4191294.22	1.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	565650.46	4191914.22	1.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	566130.46	4191314.22	1.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	565790.46	4191474.22	1.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	566070.46	4191334.22	1.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	565810.46	4191454.22	1.65E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	566490.46	4191374.22	1.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	565650.46	4191894.22	1.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	566270.46	4191334.22	1.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	565770.46	4191494.22	1.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	565990.46	4191354.22	1.64E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	565730.46	4191554.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	566410.46	4191374.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	565670.46	4191734.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	566570.46	4191354.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	565830.46	4191434.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	565650.46	4191874.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	565890.46	4191394.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	566190.46	4191294.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	565930.46	4191374.22	1.63E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	565690.46	4191654.22	1.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	566330.46	4191354.22	1.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	565650.46	4191854.22	1.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	565630.46	4192054.22	1.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	565710.46	4191594.22	1.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	565630.46	4192034.22	1.62E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	565750.46	4191514.22	1.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	566110.46	4191314.22	1.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	565630.46	4192074.22	1.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	565650.46	4191834.22	1.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	566050.46	4191334.22	1.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	566430.46	4191374.22	1.61E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	565850.46	4191414.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	565630.46	4192014.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	565630.46	4192094.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	566170.46	4191294.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	565670.46	4191714.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	566470.46	4191374.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	565650.46	4191814.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	566550.46	4191354.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	565970.46	4191354.22	1.60E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	566450.46	4191374.22	1.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	565630.46	4192114.22	1.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	565630.46	4191994.22	1.59E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	565690.46	4191634.22	1.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	565650.46	4191794.22	1.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	566030.46	4191334.22	1.58E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	565630.46	4192134.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	565730.46	4191534.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	565910.46	4191374.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	566090.46	4191314.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	565710.46	4191574.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	566150.46	4191294.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	565670.46	4191694.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	565870.46	4191394.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	565630.46	4191974.22	1.57E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	566250.46	4191294.22	1.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	565790.46	4191454.22	1.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	566290.46	4191334.22	1.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

623	ALL	565770.46	4191474.22	1.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	565630.46	4192154.22	1.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	566350.46	4191354.22	1.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	565650.46	4191774.22	1.56E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	566230.46	4191274.22	1.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	565950.46	4191354.22	1.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	565810.46	4191434.22	1.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	565630.46	4191954.22	1.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	566530.46	4191354.22	1.55E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	565750.46	4191494.22	1.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	566010.46	4191334.22	1.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	565690.46	4191614.22	1.54E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	565630.46	4191934.22	1.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	566210.46	4191274.22	1.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	565670.46	4191674.22	1.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	565830.46	4191414.22	1.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	565650.46	4191754.22	1.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	566130.46	4191294.22	1.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	566070.46	4191314.22	1.53E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	565710.46	4191554.22	1.52E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	565630.46	4191914.22	1.52E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	565630.46	4192174.22	1.52E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	565890.46	4191374.22	1.52E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	565730.46	4191514.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	566370.46	4191354.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	565590.46	4192234.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	565990.46	4191334.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	565930.46	4191354.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	566190.46	4191274.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	565630.46	4191894.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	565650.46	4191734.22	1.51E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	565850.46	4191394.22	1.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	565690.46	4191594.22	1.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	565670.46	4191654.22	1.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	565630.46	4191874.22	1.50E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	566110.46	4191294.22	1.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	566510.46	4191354.22	1.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	566310.46	4191334.22	1.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	566050.46	4191314.22	1.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	565630.46	4191854.22	1.49E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	566170.46	4191274.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	565610.46	4192094.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	565770.46	4191454.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	566270.46	4191314.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	565790.46	4191434.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	565610.46	4192074.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	565650.46	4191714.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	565610.46	4192054.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	565970.46	4191334.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	565610.46	4192034.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	565610.46	4192114.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	566669	4191327.79	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	565630.46	4191834.22	1.48E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	565610.46	4192014.22	1.47E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	565750.46	4191474.22	1.47E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	565710.46	4191534.22	1.47E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	566390.46	4191354.22	1.47E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	565610.46	4191994.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	565810.46	4191414.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

373	ALL	565870.46	4191374.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	565610.46	4192134.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	565670.46	4191634.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	565630.46	4191814.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	565910.46	4191354.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	565690.46	4191574.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	566090.46	4191294.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	566250.46	4191274.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	566030.46	4191314.22	1.46E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	566150.46	4191274.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	565730.46	4191494.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	565610.46	4192154.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	566570.46	4191334.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	565610.46	4191974.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	565630.46	4191794.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	565650.46	4191694.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	566230.46	4191254.22	1.45E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	566490.46	4191354.22	1.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	565950.46	4191334.22	1.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	566410.46	4191354.22	1.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	565830.46	4191394.22	1.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	565610.46	4192174.22	1.44E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	566330.46	4191334.22	1.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	565630.46	4191774.22	1.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	565610.46	4191954.22	1.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	565670.46	4191614.22	1.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	566010.46	4191314.22	1.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	566210.46	4191254.22	1.43E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	566070.46	4191294.22	1.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	566130.46	4191274.22	1.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	565650.46	4191674.22	1.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	565710.46	4191514.22	1.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	565690.46	4191554.22	1.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	565890.46	4191354.22	1.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	566430.46	4191354.22	1.42E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	565610.46	4191934.22	1.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	565630.46	4191754.22	1.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	566550.46	4191334.22	1.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	566250.46	4191254.22	1.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	565850.46	4191374.22	1.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	565770.46	4191434.22	1.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	565750.46	4191454.22	1.41E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	565610.46	4192194.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	565930.46	4191334.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	566190.46	4191254.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	566470.46	4191354.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	566290.46	4191314.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	565790.46	4191414.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	565610.46	4191914.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	566450.46	4191354.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	565990.46	4191314.22	1.40E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	565670.46	4191594.22	1.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	565630.46	4191734.22	1.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	565730.46	4191474.22	1.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	565650.46	4191654.22	1.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	565610.46	4191894.22	1.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	566110.46	4191274.22	1.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	566050.46	4191294.22	1.39E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	566350.46	4191334.22	1.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

421	ALL	565810.46	4191394.22	1.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	565610.46	4191874.22	1.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	566170.46	4191254.22	1.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	565590.46	4192094.22	1.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	565690.46	4191534.22	1.38E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	565610.46	4191854.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	565590.46	4192114.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	565870.46	4191354.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	565970.46	4191314.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	565630.46	4191714.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	566530.46	4191334.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	565710.46	4191494.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	565610.46	4191834.22	1.37E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	566633.29	4191315.6	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	565590.46	4192074.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	566270.46	4191294.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	565910.46	4191334.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	565590.46	4192134.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	565650.46	4191634.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	565670.46	4191574.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	565590.46	4192014.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	566090.46	4191274.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	565590.46	4192054.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	565590.46	4192034.22	1.36E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	565830.46	4191374.22	1.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	565610.46	4191814.22	1.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	566030.46	4191294.22	1.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	565590.46	4191994.22	1.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	565590.46	4192154.22	1.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	566150.46	4191254.22	1.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	566230.46	4191234.22	1.35E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	566370.46	4191334.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	565630.46	4191694.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	565610.46	4191794.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	565750.46	4191434.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	565950.46	4191314.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	565590.46	4191974.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	565590.46	4192174.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	566250.46	4191234.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	565770.46	4191414.22	1.34E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	565730.46	4191454.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	565650.46	4191614.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	565690.46	4191514.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	566310.46	4191314.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL	566210.46	4191234.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	565610.46	4191774.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	566070.46	4191274.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	565590.46	4192194.22	1.33E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	565790.46	4191394.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	565670.46	4191554.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	566010.46	4191294.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	565890.46	4191334.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	565850.46	4191354.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	565590.46	4191954.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	566510.46	4191334.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	566130.46	4191254.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	565630.46	4191674.22	1.32E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	565710.46	4191474.22	1.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	565610.46	4191754.22	1.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

223	ALL	565930.46	4191314.22	1.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	565590.46	4191934.22	1.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL	566190.46	4191234.22	1.31E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	566390.46	4191334.22	1.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	565810.46	4191374.22	1.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	565590.46	4192214.22	1.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	565650.46	4191594.22	1.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	565990.46	4191294.22	1.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	566050.46	4191274.22	1.30E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	565610.46	4191734.22	1.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	565630.46	4191654.22	1.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	566110.46	4191254.22	1.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	565590.46	4191914.22	1.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	565670.46	4191534.22	1.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	566570.46	4191314.22	1.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	566290.46	4191294.22	1.29E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	565690.46	4191494.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	565590.46	4191894.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	565870.46	4191334.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	566410.46	4191334.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	566490.46	4191334.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL	566170.46	4191234.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	565570.46	4192094.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	565590.46	4191874.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	565750.46	4191414.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	565570.46	4192114.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	565830.46	4191354.22	1.28E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	565730.46	4191434.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	565970.46	4191294.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	566270.46	4191274.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	565910.46	4191314.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	565610.46	4191714.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	565590.46	4191854.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	565650.46	4191574.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	565770.46	4191394.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	565630.46	4191634.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	565570.46	4192134.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	565570.46	4192074.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	566090.46	4191254.22	1.27E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	566330.46	4191314.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	566430.46	4191334.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	565590.46	4191834.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	565710.46	4191454.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	566030.46	4191274.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	565570.46	4192054.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	565570.46	4192034.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	565570.46	4192014.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	565570.46	4192154.22	1.26E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	565790.46	4191374.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL	566150.46	4191234.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	565590.46	4191814.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	565570.46	4191994.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	565670.46	4191514.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	566470.46	4191334.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	566450.46	4191334.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	566550.46	4191314.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	565610.46	4191694.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	565570.46	4192174.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	565950.46	4191294.22	1.25E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

270	ALL	565850.46	4191334.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	565630.46	4191614.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	565590.46	4191794.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	565570.46	4192194.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	565690.46	4191474.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	565650.46	4191554.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	565890.46	4191314.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	565570.46	4191974.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	566070.46	4191254.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	566010.46	4191274.22	1.24E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	565590.46	4191774.22	1.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	565570.46	4192214.22	1.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	565810.46	4191354.22	1.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL	566130.46	4191234.22	1.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	565610.46	4191674.22	1.23E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	565570.46	4191954.22	1.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	566270.46	4191254.22	1.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	565930.46	4191294.22	1.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	565590.46	4191754.22	1.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	565730.46	4191414.22	1.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	565630.46	4191594.22	1.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	565750.46	4191394.22	1.22E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	565710.46	4191434.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	565990.46	4191274.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	566530.46	4191314.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	566050.46	4191254.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	565570.46	4192234.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	565670.46	4191494.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	566310.46	4191294.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	566350.46	4191314.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	565570.46	4191934.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	565650.46	4191534.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	565610.46	4191654.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	565770.46	4191374.22	1.21E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL	566110.46	4191234.22	1.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	565870.46	4191314.22	1.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	565830.46	4191334.22	1.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	566290.46	4191274.22	1.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	565590.46	4191734.22	1.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	565570.46	4191914.22	1.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	565690.46	4191454.22	1.20E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	565910.46	4191294.22	1.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	565570.46	4191894.22	1.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	566270.46	4191234.22	1.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	565630.46	4191574.22	1.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	565970.46	4191274.22	1.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	565790.46	4191354.22	1.19E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	565610.46	4191634.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	565570.46	4191874.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	565590.46	4191714.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	566030.46	4191254.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL	566090.46	4191234.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	565570.46	4191854.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	566510.46	4191314.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	565650.46	4191514.22	1.18E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	566370.46	4191314.22	1.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	565570.46	4191834.22	1.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	565670.46	4191474.22	1.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	565850.46	4191314.22	1.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1197	ALL	565570.46	4191814.22	1.17E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	565590.46	4191694.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	565950.46	4191274.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	565610.46	4191614.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	565810.46	4191334.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	565730.46	4191394.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	565630.46	4191554.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	565890.46	4191294.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	565710.46	4191414.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	566070.46	4191234.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	565750.46	4191374.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	566010.46	4191254.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	565570.46	4191794.22	1.16E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	566490.46	4191314.22	1.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	565690.46	4191434.22	1.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	566570.46	4191294.22	1.15E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	565590.46	4191674.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	565570.46	4191774.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	565770.46	4191354.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	566290.46	4191254.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	566390.46	4191314.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	565650.46	4191494.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	565930.46	4191274.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	565610.46	4191594.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	566330.46	4191294.22	1.14E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	565830.46	4191314.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	565630.46	4191534.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	565990.46	4191254.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	566050.46	4191234.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	565570.46	4191754.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	565870.46	4191294.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	565670.46	4191454.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	565590.46	4191654.22	1.13E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	565790.46	4191334.22	1.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	566470.46	4191314.22	1.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	566410.46	4191314.22	1.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	566310.46	4191274.22	1.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	565570.46	4191734.22	1.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	565910.46	4191274.22	1.12E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	565610.46	4191574.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	566430.46	4191314.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	566450.46	4191314.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	565970.46	4191254.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	566550.46	4191294.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	565710.46	4191394.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	565730.46	4191374.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL	566030.46	4191234.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	565590.46	4191634.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	565630.46	4191514.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	565690.46	4191414.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	565650.46	4191474.22	1.11E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	565570.46	4191714.22	1.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	565850.46	4191294.22	1.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	565750.46	4191354.22	1.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	565810.46	4191314.22	1.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	566290.46	4191234.22	1.10E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	565610.46	4191554.22	1.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	565670.46	4191434.22	1.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	565890.46	4191274.22	1.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

71	ALL	565950.46	4191254.22	1.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	565590.46	4191614.22	1.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	565570.46	4191694.22	1.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	565770.46	4191334.22	1.09E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL	566010.46	4191234.22	1.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	566350.46	4191294.22	1.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	566530.46	4191294.22	1.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	565630.46	4191494.22	1.08E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	565830.46	4191294.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	565570.46	4191674.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	565650.46	4191454.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	565590.46	4191594.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	565930.46	4191254.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	565610.46	4191534.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	565790.46	4191314.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	565870.46	4191274.22	1.07E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	565710.46	4191374.22	1.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL	565990.46	4191234.22	1.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	565690.46	4191394.22	1.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	565730.46	4191354.22	1.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	566310.46	4191254.22	1.06E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	565570.46	4191654.22	1.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	566510.46	4191294.22	1.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	565670.46	4191414.22	1.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	566370.46	4191294.22	1.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	565590.46	4191574.22	1.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	565750.46	4191334.22	1.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	565910.46	4191254.22	1.05E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	565630.46	4191474.22	1.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL	565970.46	4191234.22	1.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	565610.46	4191514.22	1.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	566330.46	4191274.22	1.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	565810.46	4191294.22	1.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	565850.46	4191274.22	1.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	565570.46	4191634.22	1.04E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	565650.46	4191434.22	1.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	565770.46	4191314.22	1.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	566570.46	4191274.22	1.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	566490.46	4191294.22	1.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	565590.46	4191554.22	1.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	565890.46	4191254.22	1.03E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL	565950.46	4191234.22	1.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	565570.46	4191614.22	1.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	566390.46	4191294.22	1.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	565690.46	4191374.22	1.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	566310.46	4191234.22	1.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	565710.46	4191354.22	1.02E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	565610.46	4191494.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	565630.46	4191454.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	565830.46	4191274.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	565670.46	4191394.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	565730.46	4191334.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	565790.46	4191294.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	565590.46	4191534.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	566470.46	4191294.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	565570.46	4191594.22	1.01E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL	565930.46	4191234.22	1.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	565870.46	4191254.22	1.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	565650.46	4191414.22	1.00E-08	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

196	ALL	566410.46	4191294.22	9.99E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	565750.46	4191314.22	9.98E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	566550.46	4191274.22	9.98E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	566450.46	4191294.22	9.92E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	566430.46	4191294.22	9.90E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	566350.46	4191274.22	9.89E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	565610.46	4191474.22	9.87E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	565570.46	4191574.22	9.87E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL	565910.46	4191234.22	9.86E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	565810.46	4191274.22	9.86E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	565590.46	4191514.22	9.83E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	565630.46	4191434.22	9.82E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	565850.46	4191254.22	9.81E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	565770.46	4191294.22	9.80E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	566330.46	4191254.22	9.78E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	565690.46	4191354.22	9.77E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	565670.46	4191374.22	9.75E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	565710.46	4191334.22	9.74E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	566530.46	4191274.22	9.70E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	565570.46	4191554.22	9.68E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL	565890.46	4191234.22	9.68E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	565650.46	4191394.22	9.66E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	565730.46	4191314.22	9.64E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	565610.46	4191454.22	9.60E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	565790.46	4191274.22	9.60E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	565830.46	4191254.22	9.58E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	565590.46	4191494.22	9.58E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	566370.46	4191274.22	9.57E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	566570.46	4191254.22	9.55E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	565630.46	4191414.22	9.51E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	565750.46	4191294.22	9.50E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	565570.46	4191534.22	9.49E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	565870.46	4191234.22	9.48E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	566510.46	4191274.22	9.45E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	565670.46	4191354.22	9.38E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	565690.46	4191334.22	9.38E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	566330.46	4191234.22	9.37E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	565810.46	4191254.22	9.36E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	565590.46	4191474.22	9.34E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	565610.46	4191434.22	9.33E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	565770.46	4191274.22	9.33E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	565650.46	4191374.22	9.33E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	565710.46	4191314.22	9.31E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	565570.46	4191514.22	9.28E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	565850.46	4191234.22	9.28E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	566390.46	4191274.22	9.26E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	566350.46	4191254.22	9.23E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	566550.46	4191254.22	9.23E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	566490.46	4191274.22	9.21E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	565630.46	4191394.22	9.21E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	565730.46	4191294.22	9.20E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	565790.46	4191254.22	9.13E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	565590.46	4191454.22	9.10E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	565830.46	4191234.22	9.08E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	565570.46	4191494.22	9.07E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	565750.46	4191274.22	9.06E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	565610.46	4191414.22	9.06E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	565670.46	4191334.22	9.03E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	566470.46	4191274.22	9.02E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

145	ALL	566410.46	4191274.22	9.01E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	565650.46	4191354.22	9.00E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	9.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	565690.46	4191314.22	8.99E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	566570.46	4191234.22	8.96E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	565630.46	4191374.22	8.92E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	566530.46	4191254.22	8.92E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	566450.46	4191274.22	8.91E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	565710.46	4191294.22	8.91E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	566430.46	4191274.22	8.90E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	566370.46	4191254.22	8.89E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	565810.46	4191234.22	8.89E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	565770.46	4191254.22	8.89E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	565590.46	4191434.22	8.87E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	565570.46	4191474.22	8.86E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	565730.46	4191274.22	8.79E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	565610.46	4191394.22	8.79E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	566350.46	4191234.22	8.75E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	565790.46	4191234.22	8.68E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	565650.46	4191334.22	8.68E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	565670.46	4191314.22	8.67E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	565570.46	4191454.22	8.65E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	566550.46	4191234.22	8.65E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	565750.46	4191254.22	8.64E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	566510.46	4191254.22	8.64E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	565590.46	4191414.22	8.63E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	565630.46	4191354.22	8.63E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	565690.46	4191294.22	8.61E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	566390.46	4191254.22	8.60E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	565610.46	4191374.22	8.52E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	565710.46	4191274.22	8.52E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL	565770.46	4191234.22	8.47E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	565570.46	4191434.22	8.44E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	566490.46	4191254.22	8.40E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	565730.46	4191254.22	8.40E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	565590.46	4191394.22	8.39E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	566410.46	4191254.22	8.37E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	566370.46	4191234.22	8.37E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	565650.46	4191314.22	8.35E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	566530.46	4191234.22	8.35E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	565630.46	4191334.22	8.34E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	565670.46	4191294.22	8.32E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	565610.46	4191354.22	8.26E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	565690.46	4191274.22	8.26E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	566470.46	4191254.22	8.26E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	565750.46	4191234.22	8.25E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	566430.46	4191254.22	8.25E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	565570.46	4191414.22	8.22E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	566450.46	4191254.22	8.22E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	565710.46	4191254.22	8.16E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	565590.46	4191374.22	8.15E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	566390.46	4191234.22	8.11E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	566510.46	4191234.22	8.09E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	565630.46	4191314.22	8.04E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	565730.46	4191234.22	8.04E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	565650.46	4191294.22	8.04E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	565570.46	4191394.22	8.01E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	565610.46	4191334.22	8.00E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	8.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	565670.46	4191274.22	7.99E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	565690.46	4191254.22	7.92E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

43	ALL	566410.46	4191234.22	7.92E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	565590.46	4191354.22	7.92E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	566490.46	4191234.22	7.87E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL	565710.46	4191234.22	7.82E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL	566430.46	4191234.22	7.80E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	565570.46	4191374.22	7.80E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	566470.46	4191234.22	7.75E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	565630.46	4191294.22	7.75E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	566450.46	4191234.22	7.75E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	565610.46	4191314.22	7.74E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	565650.46	4191274.22	7.73E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	565670.46	4191254.22	7.68E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	565590.46	4191334.22	7.68E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	565690.46	4191234.22	7.60E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	565570.46	4191354.22	7.58E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	565610.46	4191294.22	7.48E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	565630.46	4191274.22	7.48E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	565590.46	4191314.22	7.45E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	565650.46	4191254.22	7.44E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL	565670.46	4191234.22	7.38E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	565570.46	4191334.22	7.37E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	565610.46	4191274.22	7.23E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	565590.46	4191294.22	7.21E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	565630.46	4191254.22	7.21E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL	565650.46	4191234.22	7.17E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	565570.46	4191314.22	7.16E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	565610.46	4191254.22	6.98E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	565590.46	4191274.22	6.98E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL	565630.46	4191234.22	6.96E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	565570.46	4191294.22	6.95E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	565590.46	4191254.22	6.75E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL	565610.46	4191234.22	6.74E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	565570.46	4191274.22	6.73E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL	565590.46	4191234.22	6.53E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	565570.46	4191254.22	6.53E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	ALL	565570.46	4191234.22	6.32E-09	0.6YrCancerRMP_InhSoilDermMMilk_FAH16to70	6.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Cal Softball Fields Project Construction HRA - Chronic Risk - Sorted Max to Min

*HARP - HRACalc v22118 7/18/2022 1:51:36 PM

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1187	ALL		566170.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
1188	ALL		566190.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
1175	ALL		566130.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1176	ALL		566150.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04
1177	ALL		566170.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04
1178	ALL		566190.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04
1162	ALL		566110.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
1163	ALL		566130.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04
1164	ALL		566150.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04
1165	ALL		566170.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
1166	ALL		566190.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
1148	ALL		566090.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
1149	ALL		566110.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
1147	ALL		566070.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
1150	ALL		566130.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
1151	ALL		566150.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
1127	ALL		566070.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
1128	ALL		566090.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
1152	ALL		566170.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1126	ALL		566050.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1153	ALL		566190.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1129	ALL		566110.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
1137	ALL		566270.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1136	ALL		566250.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
1130	ALL		566130.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1104	ALL		566050.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1105	ALL		566070.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1135	ALL		566230.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1103	ALL		566030.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1131	ALL		566150.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1106	ALL		566090.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
1134	ALL		566210.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1116	ALL		566290.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1132	ALL		566170.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1102	ALL		566010.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1133	ALL		566190.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1115	ALL		566270.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1107	ALL		566110.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1078	ALL		566030.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1077	ALL		566010.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1079	ALL		566050.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1114	ALL		566250.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
1080	ALL		566070.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1108	ALL		566130.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1092	ALL		566310.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1113	ALL		566230.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1043	ALL		566010.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1062	ALL		566390.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1091	ALL		566290.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1109	ALL		566150.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1081	ALL		566090.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1061	ALL		566370.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1112	ALL		566210.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1044	ALL		566030.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1110	ALL		566170.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1060	ALL		566350.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1111	ALL		566190.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1090	ALL		566270.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1042	ALL		565990.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
992	ALL		566010.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1045	ALL		566050.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1059	ALL		566330.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1082	ALL		566110.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1015	ALL		566470.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1014	ALL		566450.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1016	ALL		566490.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1013	ALL		566430.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1017	ALL		566510.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1012	ALL		566410.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
993	ALL		566030.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1089	ALL		566250.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1046	ALL		566070.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1058	ALL		566310.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1018	ALL		566530.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1041	ALL		565970.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1011	ALL		566390.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
991	ALL		565990.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1019	ALL		566550.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
941	ALL		566010.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1083	ALL		566130.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1010	ALL		566370.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1020	ALL		566570.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1088	ALL		566230.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1057	ALL		566290.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
965	ALL		566490.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
964	ALL		566470.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00

891	ALL	566030.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
995	ALL	566070.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05
1048	ALL	566110.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
1375	ALL	566610.6	4191597	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
960	ALL	566390.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
915	ALL	566510.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05
914	ALL	566490.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
916	ALL	566530.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05
989	ALL	565950.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
943	ALL	566050.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
1039	ALL	565930.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05
913	ALL	566470.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05
917	ALL	566550.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
939	ALL	565970.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
1007	ALL	566310.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
918	ALL	566570.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05
1055	ALL	566250.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05
912	ALL	566450.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05
840	ALL	566030.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05
889	ALL	565990.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05
959	ALL	566370.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
1376	ALL	566595	4191573	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
911	ALL	566430.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
996	ALL	566090.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
839	ALL	566010.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
1049	ALL	566130.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05
1006	ALL	566290.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
1054	ALL	566230.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
910	ALL	566410.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05
892	ALL	566050.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
988	ALL	565930.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05
958	ALL	566350.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
867	ALL	566570.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
944	ALL	566070.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
938	ALL	565950.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05
866	ALL	566550.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
865	ALL	566530.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
1038	ALL	565910.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
864	ALL	566510.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
888	ALL	565970.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05
863	ALL	566490.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05
862	ALL	566470.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05
789	ALL	566030.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
1053	ALL	566210.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
838	ALL	565990.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
909	ALL	566390.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
861	ALL	566450.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
841	ALL	566050.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05
957	ALL	566330.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
1050	ALL	566150.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
816	ALL	566570.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
1005	ALL	566270.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
860	ALL	566430.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
997	ALL	566110.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
815	ALL	566550.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
1052	ALL	566190.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
937	ALL	565930.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
1377	ALL	566676.8	4191552	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
788	ALL	566010.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
987	ALL	565910.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
1051	ALL	566170.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
814	ALL	566530.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
790	ALL	566050.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05
887	ALL	565950.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
813	ALL	566510.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
893	ALL	566070.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
908	ALL	566370.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
859	ALL	566410.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
1037	ALL	565890.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
812	ALL	566490.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05
956	ALL	566310.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
837	ALL	565970.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
765	ALL	566570.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
945	ALL	566090.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
1004	ALL	566250.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
739	ALL	566050.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
811	ALL	566470.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
764	ALL	566550.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
1378	ALL	566582.8	4191499	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
738	ALL	566030.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
787	ALL	565990.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05
763	ALL	566530.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
810	ALL	566450.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
998	ALL	566130.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05
858	ALL	566390.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
907	ALL	566350.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
936	ALL	565910.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
714	ALL	566570.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.

791	ALL	566070.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
954	ALL	566270.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
894	ALL	566090.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
1001	ALL	566190.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05
807	ALL	566390.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
1000	ALL	566170.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-05
663	ALL	566570.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05
711	ALL	566510.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
736	ALL	565990.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
687	ALL	566030.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
885	ALL	565910.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05
835	ALL	565930.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
759	ALL	566450.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
935	ALL	565890.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
710	ALL	566490.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05
662	ALL	566550.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05
758	ALL	566430.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
740	ALL	566070.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
785	ALL	565950.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
953	ALL	566250.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
905	ALL	566310.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
985	ALL	565870.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-05
757	ALL	566410.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
947	ALL	566130.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
686	ALL	566010.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
709	ALL	566470.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
856	ALL	566350.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
661	ALL	566530.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
806	ALL	566370.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
689	ALL	566070.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
735	ALL	565970.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
756	ALL	566390.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
1035	ALL	565850.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05
637	ALL	566050.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
952	ALL	566230.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
843	ALL	566090.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
660	ALL	566510.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
904	ALL	566290.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
638	ALL	566070.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
1380	ALL	566639.4	4191459	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
834	ALL	565910.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
884	ALL	565890.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
708	ALL	566450.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
895	ALL	566110.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05
612	ALL	566570.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05
659	ALL	566490.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
948	ALL	566150.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05
784	ALL	565930.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05
951	ALL	566210.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
685	ALL	565990.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
934	ALL	565870.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
636	ALL	566030.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
755	ALL	566370.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
855	ALL	566330.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
611	ALL	566550.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
949	ALL	566170.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
950	ALL	566190.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
1076	ALL	565830.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
707	ALL	566430.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
903	ALL	566270.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
734	ALL	565950.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
792	ALL	566090.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
658	ALL	566470.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
805	ALL	566350.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
984	ALL	565850.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
610	ALL	566530.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
706	ALL	566410.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
587	ALL	566070.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
705	ALL	566390.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
635	ALL	566010.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05
902	ALL	566250.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
684	ALL	565970.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05
833	ALL	565890.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
854	ALL	566310.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
704	ALL	566370.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
657	ALL	566450.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
741	ALL	566090.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
896	ALL	566130.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
609	ALL	566510.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
783	ALL	565910.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
883	ALL	565870.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
586	ALL	566050.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
1034	ALL	565830.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
754	ALL	566350.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
588	ALL	566090.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
733	ALL	565930.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
608	ALL	566490.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
1381	ALL	566588	4191438	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+

560	ALL	566550.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
832	ALL	565870.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
654	ALL	566390.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
782	ALL	565890.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
606	ALL	566450.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05
803	ALL	566310.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
1382	ALL	566635.9	4191431	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
536	ALL	566070.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
732	ALL	565910.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
753	ALL	566330.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
653	ALL	566370.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
882	ALL	565850.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
793	ALL	566110.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
559	ALL	566530.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
633	ALL	565970.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
584	ALL	566010.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
851	ALL	566250.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
492	ALL	566210.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
538	ALL	566110.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
1033	ALL	565810.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
493	ALL	566230.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
652	ALL	566350.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
682	ALL	565930.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
605	ALL	566430.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
845	ALL	566130.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
802	ALL	566290.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
702	ALL	566330.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
558	ALL	566510.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
932	ALL	565830.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
535	ALL	566050.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
1387	ALL	566868.5	4191524	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
742	ALL	566110.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
850	ALL	566230.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
491	ALL	566190.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
801	ALL	566270.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
1335	ALL	565810.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
487	ALL	566110.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
604	ALL	566410.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
557	ALL	566490.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
752	ALL	566310.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
1333	ALL	565770.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
849	ALL	566210.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
583	ALL	565990.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
781	ALL	565870.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
632	ALL	565950.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
1334	ALL	565790.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
846	ALL	566150.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
691	ALL	566110.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
831	ALL	565850.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
848	ALL	566190.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
731	ALL	565890.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
441	ALL	566210.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
847	ALL	566170.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
651	ALL	566330.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
982	ALL	565810.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
545	ALL	566250.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
1074	ALL	565790.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
556	ALL	566470.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
544	ALL	566230.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1348	ALL	565810.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
603	ALL	566390.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
534	ALL	566030.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1332	ALL	565750.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
800	ALL	566250.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
488	ALL	566130.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
486	ALL	566090.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
751	ALL	566290.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
440	ALL	566190.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
701	ALL	566310.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
442	ALL	566230.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
601	ALL	566350.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
640	ALL	566110.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
681	ALL	565910.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
750	ALL	566270.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
881	ALL	565830.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
555	ALL	566450.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
794	ALL	566130.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
602	ALL	566370.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
546	ALL	566270.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
1347	ALL	565790.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
589	ALL	566110.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
600	ALL	566330.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
439	ALL	566170.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
494	ALL	566250.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
582	ALL	565970.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
799	ALL	566230.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
547	ALL	566290.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
548	ALL	566310.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00

780	ALL	565850.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
730	ALL	565870.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
598	ALL	566290.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
795	ALL	566150.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
743	ALL	566130.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
797	ALL	566190.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
550	ALL	566350.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
1330	ALL	565710.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
698	ALL	566250.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
796	ALL	566170.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
1361	ALL	565810.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
553	ALL	566410.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
649	ALL	566290.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
647	ALL	566250.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
648	ALL	566270.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
495	ALL	566270.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
680	ALL	565890.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
830	ALL	565830.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
508	ALL	566530.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
484	ALL	566050.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
581	ALL	565950.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
552	ALL	566390.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
748	ALL	566230.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
595	ALL	566230.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
436	ALL	566110.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
692	ALL	566130.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
1329	ALL	565690.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
532	ALL	565990.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05
551	ALL	566370.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
489	ALL	566150.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
981	ALL	565790.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
390	ALL	566210.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
496	ALL	566290.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1383	ALL	566616.7	4191406	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
1345	ALL	565750.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
880	ALL	565810.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
630	ALL	565910.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
1073	ALL	565770.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
539	ALL	566130.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
507	ALL	566510.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
641	ALL	566130.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
497	ALL	566310.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
1360	ALL	565790.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
747	ALL	566210.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
443	ALL	566250.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
697	ALL	566230.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
389	ALL	566190.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
744	ALL	566150.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
542	ALL	566190.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
483	ALL	566030.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
391	ALL	566230.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
746	ALL	566190.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
646	ALL	566230.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
435	ALL	566090.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
1292	ALL	565710.5	4192034	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
590	ALL	566130.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
745	ALL	566170.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1284	ALL	565710.5	4192014	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
498	ALL	566330.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
729	ALL	565850.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
388	ALL	566170.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
531	ALL	565970.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1344	ALL	565730.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
580	ALL	565930.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1276	ALL	565710.5	4191994	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
506	ALL	566490.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
930	ALL	565790.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
679	ALL	565870.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
779	ALL	565830.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
594	ALL	566210.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1031	ALL	565770.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
1374	ALL	565810.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
693	ALL	566150.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
1268	ALL	565710.5	4191974	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
387	ALL	566150.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
696	ALL	566210.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
482	ALL	566010.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1260	ALL	565710.5	4191954	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
499	ALL	566350.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
829	ALL	565810.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1359	ALL	565770.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
629	ALL	565890.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1252	ALL	565710.5	4191934	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
505	ALL	566470.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1343	ALL	565710.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
434	ALL	566070.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
1244	ALL	565710.5	4191914	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
645	ALL	566210.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00

339	ALL	566210.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
1373	ALL	565790.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
433	ALL	566050.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
591	ALL	566150.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
445	ALL	566290.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1212	ALL	565710.5	4191834	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
644	ALL	566190.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
459	ALL	566570.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
392	ALL	566250.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
1072	ALL	565750.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
385	ALL	566110.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
678	ALL	565850.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
643	ALL	566170.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
1358	ALL	565750.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
728	ALL	565830.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
340	ALL	566230.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
1204	ALL	565710.5	4191814	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
338	ALL	566190.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1146	ALL	565730.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
458	ALL	566550.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
592	ALL	566170.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
446	ALL	566310.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
778	ALL	565810.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
628	ALL	565870.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
1340	ALL	565650.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
1299	ALL	565690.5	4192054	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1196	ALL	565710.5	4191794	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
432	ALL	566030.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
529	ALL	565930.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1291	ALL	565690.5	4192034	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1306	ALL	565690.5	4192074	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
929	ALL	565770.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1283	ALL	565690.5	4192014	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
480	ALL	565970.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
337	ALL	566170.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
457	ALL	566530.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1275	ALL	565690.5	4191994	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1357	ALL	565730.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
828	ALL	565790.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
578	ALL	565890.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1030	ALL	565750.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
384	ALL	566090.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1125	ALL	565730.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1372	ALL	565770.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
447	ALL	566330.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
1186	ALL	565710.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
1267	ALL	565690.5	4191974	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1388	ALL	566872	4191417	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
336	ALL	566150.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
431	ALL	566010.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
1259	ALL	565690.5	4191954	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1356	ALL	565710.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1251	ALL	565690.5	4191934	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
1243	ALL	565690.5	4191914	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
393	ALL	566270.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
456	ALL	566510.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1174	ALL	565710.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
479	ALL	565950.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
1101	ALL	565730.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
448	ALL	566350.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
1355	ALL	565690.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
878	ALL	565770.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
383	ALL	566070.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
1353	ALL	565650.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
528	ALL	565910.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
1235	ALL	565690.5	4191894	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
1354	ALL	565670.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
677	ALL	565830.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
341	ALL	566250.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
727	ALL	565810.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
979	ALL	565750.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
627	ALL	565850.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
335	ALL	566130.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
1227	ALL	565690.5	4191874	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
289	ALL	566230.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
1371	ALL	565750.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
288	ALL	566210.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
430	ALL	565990.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1161	ALL	565710.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
449	ALL	566370.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1219	ALL	565690.5	4191854	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
777	ALL	565790.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
577	ALL	565870.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
1211	ALL	565690.5	4191834	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
394	ALL	566290.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
382	ALL	566050.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1352	ALL	565630.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
1071	ALL	565730.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.

454	ALL	566470.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
453	ALL	566450.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
1274	ALL	565670.5	4191994	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
1029	ALL	565730.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
1369	ALL	565710.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
1124	ALL	565710.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
676	ALL	565810.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1185	ALL	565690.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
626	ALL	565830.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1339	ALL	565630.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
290	ALL	566250.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
408	ALL	566570.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
333	ALL	566090.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1266	ALL	565670.5	4191974	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1365	ALL	565630.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
285	ALL	566150.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
726	ALL	565790.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
1258	ALL	565670.5	4191954	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
576	ALL	565850.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
380	ALL	566010.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
877	ALL	565750.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
1368	ALL	565690.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
477	ALL	565910.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
1366	ALL	565650.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
428	ALL	565950.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
1250	ALL	565670.5	4191934	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
396	ALL	566330.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
407	ALL	566550.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
1173	ALL	565690.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
1100	ALL	565710.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
1242	ALL	565670.5	4191914	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
238	ALL	566230.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1367	ALL	565670.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
342	ALL	566270.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
978	ALL	565730.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
776	ALL	565770.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
526	ALL	565870.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
332	ALL	566070.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1234	ALL	565670.5	4191894	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
237	ALL	566210.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
284	ALL	566130.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1364	ALL	565610.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1389	ALL	566934.7	4191401	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1226	ALL	565670.5	4191874	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
379	ALL	565990.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
1160	ALL	565690.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
406	ALL	566530.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1218	ALL	565670.5	4191854	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
236	ALL	566190.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1070	ALL	565710.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1210	ALL	565670.5	4191834	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
427	ALL	565930.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
826	ALL	565750.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
397	ALL	566350.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
331	ALL	566050.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
476	ALL	565890.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
927	ALL	565730.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
625	ALL	565810.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1297	ALL	565650.5	4192054	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1202	ALL	565670.5	4191814	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1289	ALL	565650.5	4192034	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
283	ALL	566110.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1304	ALL	565650.5	4192074	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
675	ALL	565790.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1144	ALL	565690.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
343	ALL	566290.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
575	ALL	565830.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1281	ALL	565650.5	4192014	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
235	ALL	566170.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1311	ALL	565650.5	4192094	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
378	ALL	565970.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
1194	ALL	565670.5	4191794	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
725	ALL	565770.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
1273	ALL	565650.5	4191994	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
1316	ALL	565650.5	4192114	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
330	ALL	566030.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
525	ALL	565850.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1028	ALL	565710.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
405	ALL	566510.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1351	ALL	565610.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
398	ALL	566370.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1123	ALL	565690.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1265	ALL	565650.5	4191974	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
234	ALL	566150.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
282	ALL	566090.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1184	ALL	565670.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
876	ALL	565730.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
426	ALL	565910.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk

328	ALL	565990.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
825	ALL	565730.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
400	ALL	566410.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1159	ALL	565670.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
357	ALL	566570.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
524	ALL	565830.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1225	ALL	565650.5	4191874	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
425	ALL	565890.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
185	ALL	566190.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
376	ALL	565930.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1069	ALL	565690.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
345	ALL	566330.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1217	ALL	565650.5	4191854	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1296	ALL	565630.5	4192054	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
926	ALL	565710.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1288	ALL	565630.5	4192034	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
724	ALL	565750.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
232	ALL	566110.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1303	ALL	565630.5	4192074	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1209	ALL	565650.5	4191834	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
280	ALL	566050.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
401	ALL	566430.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
474	ALL	565850.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1280	ALL	565630.5	4192014	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1310	ALL	565630.5	4192094	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
184	ALL	566170.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1143	ALL	565670.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
403	ALL	566470.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1201	ALL	565650.5	4191814	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
356	ALL	566550.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
327	ALL	565970.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
402	ALL	566450.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1315	ALL	565630.5	4192114	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1272	ALL	565630.5	4191994	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1027	ALL	565690.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
1193	ALL	565650.5	4191794	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
279	ALL	566030.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
1320	ALL	565630.5	4192134	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
774	ALL	565730.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
375	ALL	565910.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
231	ALL	566090.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
875	ALL	565710.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
183	ALL	566150.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1122	ALL	565670.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
424	ALL	565870.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1264	ALL	565630.5	4191974	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
188	ALL	566250.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
573	ALL	565790.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
292	ALL	566290.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
623	ALL	565770.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
1324	ALL	565630.5	4192154	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
346	ALL	566350.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
1183	ALL	565650.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
136	ALL	566230.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
326	ALL	565950.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
523	ALL	565810.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1256	ALL	565630.5	4191954	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
355	ALL	566530.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
673	ALL	565750.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
278	ALL	566010.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
976	ALL	565690.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1248	ALL	565630.5	4191934	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
135	ALL	566210.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1098	ALL	565670.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
473	ALL	565830.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1171	ALL	565650.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
182	ALL	566130.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
230	ALL	566070.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
824	ALL	565710.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
1240	ALL	565630.5	4191914	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
1328	ALL	565630.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
374	ALL	565890.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
723	ALL	565730.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
347	ALL	566370.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1363	ALL	565590.5	4192234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
277	ALL	565990.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
325	ALL	565930.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
134	ALL	566190.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1232	ALL	565630.5	4191894	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1158	ALL	565650.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
423	ALL	565850.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
925	ALL	565690.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1068	ALL	565670.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1224	ALL	565630.5	4191874	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
181	ALL	566110.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
354	ALL	566510.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
293	ALL	566310.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
229	ALL	566050.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+

1200	ALL	565630.5	4191814	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
324	ALL	565910.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
874	ALL	565690.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
180	ALL	566090.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
137	ALL	566250.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
228	ALL	566030.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
132	ALL	566150.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
672	ALL	565730.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1323	ALL	565610.5	4192154	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
306	ALL	566570.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1263	ALL	565610.5	4191974	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1192	ALL	565630.5	4191794	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1121	ALL	565650.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
85	ALL	566230.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
353	ALL	566490.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
275	ALL	565950.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
349	ALL	566410.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
422	ALL	565830.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1327	ALL	565610.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
294	ALL	566330.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1182	ALL	565630.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1255	ALL	565610.5	4191954	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
975	ALL	565670.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
227	ALL	566010.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
84	ALL	566210.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
179	ALL	566070.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
131	ALL	566130.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1097	ALL	565650.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
722	ALL	565710.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
823	ALL	565690.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
323	ALL	565890.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
350	ALL	566430.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1247	ALL	565610.5	4191934	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1170	ALL	565630.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
305	ALL	566550.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
86	ALL	566250.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
372	ALL	565850.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
521	ALL	565770.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
571	ALL	565750.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1338	ALL	565610.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
274	ALL	565930.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
83	ALL	566190.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
352	ALL	566470.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
241	ALL	566290.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
471	ALL	565790.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1239	ALL	565610.5	4191914	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
351	ALL	566450.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
226	ALL	565990.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
924	ALL	565670.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1157	ALL	565630.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
621	ALL	565730.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1067	ALL	565650.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1231	ALL	565610.5	4191894	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
130	ALL	566110.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
178	ALL	566050.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
295	ALL	566350.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
421	ALL	565810.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1223	ALL	565610.5	4191874	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
82	ALL	566170.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1308	ALL	565590.5	4192094	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
772	ALL	565690.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1215	ALL	565610.5	4191854	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1313	ALL	565590.5	4192114	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
322	ALL	565870.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
225	ALL	565970.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1141	ALL	565630.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
304	ALL	566530.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
671	ALL	565710.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1207	ALL	565610.5	4191834	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1385	ALL	566633.3	4191316	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1301	ALL	565590.5	4192074	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
189	ALL	566270.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1318	ALL	565590.5	4192134	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
273	ALL	565910.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1025	ALL	565650.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
873	ALL	565670.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1278	ALL	565590.5	4192014	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
129	ALL	566090.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1294	ALL	565590.5	4192054	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1286	ALL	565590.5	4192034	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
371	ALL	565830.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1199	ALL	565610.5	4191814	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
177	ALL	566030.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1270	ALL	565590.5	4191994	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1322	ALL	565590.5	4192154	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
81	ALL	566150.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
34	ALL	566230.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
296	ALL	566370.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+

80	ALL	566130.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1096	ALL	565630.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
620	ALL	565710.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1169	ALL	565610.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
223	ALL	565930.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1246	ALL	565590.5	4191934	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
32	ALL	566190.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
297	ALL	566390.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
370	ALL	565810.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1350	ALL	565590.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
923	ALL	565650.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
175	ALL	565990.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
127	ALL	566050.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1156	ALL	565610.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1066	ALL	565630.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
79	ALL	566110.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1238	ALL	565590.5	4191914	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
771	ALL	565670.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
255	ALL	566570.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
190	ALL	566290.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
670	ALL	565690.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1230	ALL	565590.5	4191894	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
271	ALL	565870.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
298	ALL	566410.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
302	ALL	566490.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
31	ALL	566170.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1307	ALL	565570.5	4192094	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1222	ALL	565590.5	4191874	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
469	ALL	565750.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1312	ALL	565570.5	4192114	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
320	ALL	565830.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
519	ALL	565730.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
174	ALL	565970.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
138	ALL	566270.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
222	ALL	565910.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1140	ALL	565610.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1214	ALL	565590.5	4191854	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
872	ALL	565650.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
419	ALL	565770.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1024	ALL	565630.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1317	ALL	565570.5	4192134	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1300	ALL	565570.5	4192074	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
78	ALL	566090.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
243	ALL	566330.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
299	ALL	566430.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1206	ALL	565590.5	4191834	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
569	ALL	565710.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
126	ALL	566030.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1293	ALL	565570.5	4192054	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1285	ALL	565570.5	4192034	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1277	ALL	565570.5	4192014	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1321	ALL	565570.5	4192154	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
369	ALL	565790.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
30	ALL	566150.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1198	ALL	565590.5	4191814	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1269	ALL	565570.5	4191994	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
720	ALL	565670.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
301	ALL	566470.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
300	ALL	566450.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
254	ALL	566550.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1119	ALL	565610.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1325	ALL	565570.5	4192174	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
173	ALL	565950.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
270	ALL	565850.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
973	ALL	565630.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1190	ALL	565590.5	4191794	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1336	ALL	565570.5	4192194	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
619	ALL	565690.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
821	ALL	565650.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1261	ALL	565570.5	4191974	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
221	ALL	565890.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
77	ALL	566070.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
125	ALL	566010.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1180	ALL	565590.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1349	ALL	565570.5	4192214	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
319	ALL	565810.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
29	ALL	566130.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1095	ALL	565610.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1253	ALL	565570.5	4191954	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
87	ALL	566270.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
172	ALL	565930.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1168	ALL	565590.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
468	ALL	565730.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
922	ALL	565630.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
418	ALL	565750.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
518	ALL	565710.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
124	ALL	565990.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
253	ALL	566530.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E

1221	ALL	565570.5	4191874	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1139	ALL	565590.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
75	ALL	566030.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
27	ALL	566090.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1213	ALL	565570.5	4191854	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
252	ALL	566510.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
719	ALL	565650.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
245	ALL	566370.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1205	ALL	565570.5	4191834	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
618	ALL	565670.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
219	ALL	565850.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1197	ALL	565570.5	4191814	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1118	ALL	565590.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
122	ALL	565950.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
972	ALL	565610.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
268	ALL	565810.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
417	ALL	565730.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
820	ALL	565630.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
170	ALL	565890.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
467	ALL	565710.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
26	ALL	566070.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
367	ALL	565750.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
74	ALL	566010.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1189	ALL	565570.5	4191794	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
251	ALL	566490.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
517	ALL	565690.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
204	ALL	566570.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1094	ALL	565590.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1179	ALL	565570.5	4191774	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
317	ALL	565770.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
88	ALL	566290.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
246	ALL	566390.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
668	ALL	565650.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
121	ALL	565930.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
921	ALL	565610.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
192	ALL	566330.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
218	ALL	565830.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
769	ALL	565630.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
73	ALL	565990.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
25	ALL	566050.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1167	ALL	565570.5	4191754	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
169	ALL	565870.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
567	ALL	565670.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1064	ALL	565590.5	4191654	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
267	ALL	565790.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
250	ALL	566470.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
247	ALL	566410.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
140	ALL	566310.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1154	ALL	565570.5	4191734	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
120	ALL	565910.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
870	ALL	565610.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
248	ALL	566430.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
249	ALL	566450.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
72	ALL	565970.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
203	ALL	566550.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
416	ALL	565710.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
366	ALL	565730.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1022	ALL	565590.5	4191634	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
24	ALL	566030.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
718	ALL	565630.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
617	ALL	565650.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
466	ALL	565690.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1138	ALL	565570.5	4191714	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
168	ALL	565850.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
316	ALL	565750.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
217	ALL	565810.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
37	ALL	566290.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
819	ALL	565610.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
516	ALL	565670.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
119	ALL	565890.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
71	ALL	565950.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
971	ALL	565590.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1117	ALL	565570.5	4191694	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
266	ALL	565770.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
23	ALL	566010.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
193	ALL	566350.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
202	ALL	566530.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
667	ALL	565630.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
167	ALL	565830.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1093	ALL	565570.5	4191674	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
566	ALL	565650.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
920	ALL	565590.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
70	ALL	565930.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
768	ALL	565610.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
216	ALL	565790.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
118	ALL	565870.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
365	ALL	565710.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
22	ALL	565990.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00

20	ALL	565950.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
970	ALL	565570.5	4191614	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
195	ALL	566390.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
364	ALL	565690.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
38	ALL	566310.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
314	ALL	565710.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
666	ALL	565610.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
565	ALL	565630.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
116	ALL	565830.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
414	ALL	565670.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
264	ALL	565730.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
165	ALL	565790.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
767	ALL	565590.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
199	ALL	566470.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
919	ALL	565570.5	4191594	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
19	ALL	565930.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
67	ALL	565870.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
464	ALL	565650.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
196	ALL	566410.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
214	ALL	565750.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
152	ALL	566550.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
198	ALL	566450.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
197	ALL	566430.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
142	ALL	566350.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
615	ALL	565610.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
868	ALL	565570.5	4191574	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
18	ALL	565910.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
115	ALL	565810.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
716	ALL	565590.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
514	ALL	565630.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
66	ALL	565850.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
164	ALL	565770.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
90	ALL	566330.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
313	ALL	565690.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
363	ALL	565670.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
263	ALL	565710.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
151	ALL	566530.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
817	ALL	565570.5	4191554	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
17	ALL	565890.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
413	ALL	565650.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
213	ALL	565730.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
564	ALL	565610.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
114	ALL	565790.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
65	ALL	565830.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
665	ALL	565590.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
143	ALL	566370.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
102	ALL	566570.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
463	ALL	565630.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
163	ALL	565750.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
766	ALL	565570.5	4191534	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
16	ALL	565870.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
150	ALL	566510.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
312	ALL	565670.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
262	ALL	565690.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
39	ALL	566330.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
64	ALL	565810.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
614	ALL	565590.5	4191474	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
513	ALL	565610.5	4191434	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
113	ALL	565770.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
362	ALL	565650.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
212	ALL	565710.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
715	ALL	565570.5	4191514	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
15	ALL	565850.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
144	ALL	566390.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
91	ALL	566350.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
101	ALL	566550.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
149	ALL	566490.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
412	ALL	565630.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
162	ALL	565730.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
63	ALL	565790.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
563	ALL	565590.5	4191454	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
14	ALL	565830.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
664	ALL	565570.5	4191494	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
112	ALL	565750.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
462	ALL	565610.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
261	ALL	565670.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
148	ALL	566470.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
145	ALL	566410.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
311	ALL	565650.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
211	ALL	565690.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
51	ALL	566570.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
361	ALL	565630.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
100	ALL	566530.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
147	ALL	566450.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
161	ALL	565710.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
146	ALL	566430.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
92	ALL	566370.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
13	ALL	565810.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0

410	ALL	565590.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
94	ALL	566410.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
41	ALL	566370.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
209	ALL	565650.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
49	ALL	566530.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
259	ALL	565630.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
159	ALL	565670.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
309	ALL	565610.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
109	ALL	565690.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
97	ALL	566470.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
10	ALL	565750.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
95	ALL	566430.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
460	ALL	565570.5	4191414	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
96	ALL	566450.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
59	ALL	565710.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
359	ALL	565590.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
42	ALL	566390.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
48	ALL	566510.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
208	ALL	565630.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
9	ALL	565730.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
158	ALL	565650.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
409	ALL	565570.5	4191394	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
258	ALL	565610.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
108	ALL	565670.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
58	ALL	565690.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
43	ALL	566410.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
308	ALL	565590.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
47	ALL	566490.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
8	ALL	565710.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
44	ALL	566430.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
358	ALL	565570.5	4191374	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
46	ALL	566470.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
157	ALL	565630.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
45	ALL	566450.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
207	ALL	565610.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
107	ALL	565650.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
57	ALL	565670.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
257	ALL	565590.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
7	ALL	565690.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
307	ALL	565570.5	4191354	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
156	ALL	565610.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
106	ALL	565630.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
206	ALL	565590.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
56	ALL	565650.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
6	ALL	565670.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
256	ALL	565570.5	4191334	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
105	ALL	565610.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
155	ALL	565590.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
55	ALL	565630.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
5	ALL	565650.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
205	ALL	565570.5	4191314	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
54	ALL	565610.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
104	ALL	565590.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
4	ALL	565630.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
154	ALL	565570.5	4191294	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
53	ALL	565590.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
3	ALL	565610.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
103	ALL	565570.5	4191274	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
2	ALL	565590.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
52	ALL	565570.5	4191254	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1	ALL	565570.5	4191234	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05

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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 7/15/2022
** File: C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.ADI
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** AERMOD Control Pathway
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   TITLETWO UCB LFF Construction HRA
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 1671329 Alameda_County_Population
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL UCB_LFF_Const.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** LINE VOLUME Source ID = SLINE1
** DESCRSRC Equipment and Trucks - Exhaust
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 30
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   LOCATION L0000008     VOLUME   566120.047 4191856.134 148.39
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   LOCATION L0000011     VOLUME   566136.304 4191841.842 148.39
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   LOCATION L0000017     VOLUME   566162.144 4191794.762 149.52
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   LOCATION L0000021     VOLUME   566194.587 4191810.363 151.44
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   LOCATION L0000025     VOLUME   566227.031 4191825.964 152.80
   LOCATION L0000026     VOLUME   566235.142 4191829.865 153.76
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   LOCATION L0000028     VOLUME   566249.861 4191838.160 154.96
   LOCATION L0000029     VOLUME   566245.648 4191846.112 153.51
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   LOCATION L0000031     VOLUME   566237.221 4191862.018 151.39
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   LOCATION L0000034     VOLUME   566224.581 4191885.877 151.35
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LOCATION L0000050 VOLUME 566104.043 4191865.795 150.34
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LOCATION L0000052 VOLUME 566087.405 4191858.928 149.33
LOCATION L0000053 VOLUME 566079.086 4191855.494 149.26
LOCATION L0000054 VOLUME 566070.766 4191852.060 149.37
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LOCATION L0000060 VOLUME 566115.425 4191859.688 148.83
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LOCATION L0000067 VOLUME 566153.663 4191824.578 148.67
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LOCATION L0000070 VOLUME 566169.739 4191809.626 149.45
LOCATION L0000071 VOLUME 566177.952 4191813.306 149.92
LOCATION L0000072 VOLUME 566186.165 4191816.986 150.18
LOCATION L0000073 VOLUME 566194.379 4191820.666 150.21
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LOCATION L0000075 VOLUME 566210.805 4191828.027 150.44
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LOCATION L0000082 VOLUME 566224.670 4191869.562 150.93
LOCATION L0000083 VOLUME 566220.710 4191877.644 151.04
LOCATION L0000084 VOLUME 566216.749 4191885.725 151.27
LOCATION L0000085 VOLUME 566212.789 4191893.807 152.13
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LOCATION L0000087 VOLUME 566200.899 4191899.670 153.15
LOCATION L0000088 VOLUME 566192.539 4191896.335 152.40
LOCATION L0000089 VOLUME 566184.180 4191893.001 151.46
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LOCATION L0000091 VOLUME 566167.461 4191886.331 150.49
LOCATION L0000092 VOLUME 566159.102 4191882.997 150.74
LOCATION L0000093 VOLUME 566150.742 4191879.662 150.85
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LOCATION L0000098 VOLUME 566146.896 4191850.421 148.91
LOCATION L0000099 VOLUME 566151.613 4191842.756 148.87
LOCATION L0000100 VOLUME 566156.330 4191835.091 148.85
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LOCATION L0000104 VOLUME 566182.091 4191825.984 149.32

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   LOCATION L0000115     VOLUME   566206.161 4191890.253 151.43
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   LOCATION L0000120     VOLUME   566165.205 4191877.524 150.21
   LOCATION L0000121     VOLUME   566156.771 4191874.383 150.27
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   LOCATION L0000125     VOLUME   566157.478 4191849.363 149.08
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   LOCATION L0000127     VOLUME   566166.426 4191833.744 149.04
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   LOCATION L0000130     VOLUME   566190.122 4191839.155 149.44
   LOCATION L0000131     VOLUME   566198.526 4191842.376 149.70
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   LOCATION L0000138     VOLUME   566195.859 4191882.157 150.86
   LOCATION L0000139     VOLUME   566187.525 4191878.759 150.50
   LOCATION L0000140     VOLUME   566179.191 4191875.361 150.17
   LOCATION L0000141     VOLUME   566170.857 4191871.962 149.87
   LOCATION L0000142     VOLUME   566162.524 4191868.564 149.83
   LOCATION L0000143     VOLUME   566159.210 4191863.429 149.54
   LOCATION L0000144     VOLUME   566163.661 4191855.606 149.27
   LOCATION L0000145     VOLUME   566168.111 4191847.784 149.25
   LOCATION L0000146     VOLUME   566173.963 4191843.656 149.29
   LOCATION L0000147     VOLUME   566182.482 4191846.560 149.43
   LOCATION L0000148     VOLUME   566191.000 4191849.464 149.57
   LOCATION L0000149     VOLUME   566199.519 4191852.368 149.81
   LOCATION L0000150     VOLUME   566206.802 4191855.766 150.04
   LOCATION L0000151     VOLUME   566202.639 4191863.745 150.14
   LOCATION L0000152     VOLUME   566198.476 4191871.725 150.41
   LOCATION L0000153     VOLUME   566191.204 4191871.621 150.27
   LOCATION L0000154     VOLUME   566182.767 4191868.487 149.97
   LOCATION L0000155     VOLUME   566174.331 4191865.354 149.71
   LOCATION L0000156     VOLUME   566169.640 4191860.576 149.48
   LOCATION L0000157     VOLUME   566173.190 4191852.311 149.38
   LOCATION L0000158     VOLUME   566181.344 4191854.453 149.51
   LOCATION L0000159     VOLUME   566189.836 4191857.433 149.65
   LOCATION L0000160     VOLUME   566196.153 4191861.185 149.87
   LOCATION L0000161     VOLUME   566189.629 4191864.000 149.90
   LOCATION L0000162     VOLUME   566181.047 4191861.290 149.66
** End of LINE VOLUME Source ID = SLINE1
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** DESCRSRC Fugitive Dust
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** Source Parameters **
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   SRCPARAM L0000003     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000004     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000005     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000006     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000007     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000008     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000009     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000010     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000011     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000012     0.0061728395      5.00      4.19      4.65
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   SRCPARAM L0000015     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000016     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000017     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000018     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000019     0.0061728395      5.00      4.19      4.65
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   SRCPARAM L0000022     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000023     0.0061728395      5.00      4.19      4.65
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   SRCPARAM L0000025     0.0061728395      5.00      4.19      4.65
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   SRCPARAM L0000057     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000058     0.0061728395      5.00      4.19      4.65
   SRCPARAM L0000059     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000072     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000077     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000079     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000080     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000081     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000082     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000083     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000086     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000092     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000094     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000095     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000096     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000097     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000098     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000099     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000100     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000101     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000107     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000116     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000117     0.0061728395      5.00      4.19      4.65
SRCPARAM L0000118     0.0061728395      5.00      4.19      4.65
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SRCPARAM L0000120     0.0061728395      5.00      4.19      4.65
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   SRCPARAM L0000137     0.0061728395      5.00      4.19      4.65
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   SRCPARAM L0000162     0.0061728395      5.00      4.19      4.65
** ------------------------------------------------------------------
   SRCPARAM PAREA1       0.0001008814     2.000         6     0.000
   AREAVERT PAREA1       566062.953 4191848.556 566071.659 4191832.111
   AREAVERT PAREA1       566128.248 4191857.746 566162.105 4191792.934
   AREAVERT PAREA1       566252.068 4191837.915 566211.924 4191912.884
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Scenario 1"
   EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT L0000001     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT L0000002     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT L0000003     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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   EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000005     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000009     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000014     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000016     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000018     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000019     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000021     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000022     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000023     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000024     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000025     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000027     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000032     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000035     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000104     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000105     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000105     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000084     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000084     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000084     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000085     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000085     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000086     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000087     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000126     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000147     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000064     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000065     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000066     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000107     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000110     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000043     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000044     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000045     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000046     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000087     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000094     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000023     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000025     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000026     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000146     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000146     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000146     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000147     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000147     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000148     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000149     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000149     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000149     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000123     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000123     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000124     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000124     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000124     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000126     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000126     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000126     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000127     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000127     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000127     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000128     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000128     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000128     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000129     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000129     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000130     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000131     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000132     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000132     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000143     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000147     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000150     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000153     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000153     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000153     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000154     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000162     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000162     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT PAREA1       HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT PAREA1       HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT PAREA1       HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT PAREA1       HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT PAREA1       HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP PAREA1   PAREA1
SRCGROUP SLINE1   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP SLINE1   L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
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   SRCGROUP SLINE1   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
   SRCGROUP SLINE1   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
   SRCGROUP SLINE1   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
   SRCGROUP SLINE1   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
   SRCGROUP SLINE1   L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
   SRCGROUP SLINE1   L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
   SRCGROUP SLINE1   L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
   SRCGROUP SLINE1   L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
   SRCGROUP SLINE1   L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
   SRCGROUP SLINE1   L0000067 L0000068 L0000069 L0000070 L0000071 L0000072
   SRCGROUP SLINE1   L0000073 L0000074 L0000075 L0000076 L0000077 L0000078
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   SRCGROUP SLINE1   L0000085 L0000086 L0000087 L0000088 L0000089 L0000090
   SRCGROUP SLINE1   L0000091 L0000092 L0000093 L0000094 L0000095 L0000096
   SRCGROUP SLINE1   L0000097 L0000098 L0000099 L0000100 L0000101 L0000102
   SRCGROUP SLINE1   L0000103 L0000104 L0000105 L0000106 L0000107 L0000108
   SRCGROUP SLINE1   L0000109 L0000110 L0000111 L0000112 L0000113 L0000114
   SRCGROUP SLINE1   L0000115 L0000116 L0000117 L0000118 L0000119 L0000120
   SRCGROUP SLINE1   L0000121 L0000122 L0000123 L0000124 L0000125 L0000126
   SRCGROUP SLINE1   L0000127 L0000128 L0000129 L0000130 L0000131 L0000132
   SRCGROUP SLINE1   L0000133 L0000134 L0000135 L0000136 L0000137 L0000138
   SRCGROUP SLINE1   L0000139 L0000140 L0000141 L0000142 L0000143 L0000144
   SRCGROUP SLINE1   L0000145 L0000146 L0000147 L0000148 L0000149 L0000150
   SRCGROUP SLINE1   L0000151 L0000152 L0000153 L0000154 L0000155 L0000156
   SRCGROUP SLINE1   L0000157 L0000158 L0000159 L0000160 L0000161 L0000162
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED UCB_LFF_Const.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "C:\Users\mmorales\Dropbox\12545 - UCB Softball\_AQ Data\Construction HRA\Met Data\724930
- Oakland Intl Airport\724930.SFC"
   PROFFILE "C:\Users\mmorales\Dropbox\12545 - UCB Softball\_AQ Data\Construction HRA\Met Data\724930
- Oakland Intl Airport\724930.PFL"
   SURFDATA 23230 2009 OAKLAND/WSO_AP
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 1.8 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
```

```
   PLOTFILE 1 ALL 1ST UCB_LFF_Const.AD\01H1GALL.PLT 31
   PLOTFILE 1 PAREA1 1ST UCB_LFF_Const.AD\01H1G001.PLT 32
   PLOTFILE 1 SLINE1 1ST UCB_LFF_Const.AD\01H1G002.PLT 33
   PLOTFILE PERIOD ALL UCB_LFF_Const.AD\PE00GALL.PLT 34
   PLOTFILE PERIOD PAREA1 UCB_LFF_Const.AD\PE00G001.PLT 35
   PLOTFILE PERIOD SLINE1 UCB_LFF_Const.AD\PE00G002.PLT 36
   SUMMFILE UCB_LFF_Const.sum
OU FINISHED

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                            ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   163 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   1671329.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_2.5

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    163 Source(s);       3 Source Group(s); and    1389 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    162 VOLUME source(s)
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.61728E-02	566065.7	4191843.3	148.7	5.00	4.19	4.65	YES	HRDOW7
L0000002	0	0.61728E-02	566070.0	4191835.9	147.7	5.00	4.19	4.65	YES	

```
HRDOW7
 L0000003         0   0.61728E-02  566078.3 4191839.3   147.9     5.00     4.19     4.65     YES
HRDOW7
 L0000004         0   0.61728E-02  566086.7 4191842.7   148.0     5.00     4.19     4.65     YES
HRDOW7
 L0000005         0   0.61728E-02  566095.0 4191846.0   148.0     5.00     4.19     4.65     YES
HRDOW7
 L0000006         0   0.61728E-02  566103.4 4191849.4   148.1     5.00     4.19     4.65     YES
HRDOW7
 L0000007         0   0.61728E-02  566111.7 4191852.8   148.3     5.00     4.19     4.65     YES
HRDOW7
 L0000008         0   0.61728E-02  566120.0 4191856.1   148.4     5.00     4.19     4.65     YES
HRDOW7
 L0000009         0   0.61728E-02  566127.7 4191857.7   148.6     5.00     4.19     4.65     YES
HRDOW7
 L0000010         0   0.61728E-02  566132.0 4191849.8   148.5     5.00     4.19     4.65     YES
HRDOW7
 L0000011         0   0.61728E-02  566136.3 4191841.8   148.4     5.00     4.19     4.65     YES
HRDOW7
 L0000012         0   0.61728E-02  566140.6 4191833.9   148.4     5.00     4.19     4.65     YES
HRDOW7
 L0000013         0   0.61728E-02  566144.9 4191826.0   148.4     5.00     4.19     4.65     YES
HRDOW7
 L0000014         0   0.61728E-02  566149.2 4191818.1   148.5     5.00     4.19     4.65     YES
HRDOW7
 L0000015         0   0.61728E-02  566153.4 4191810.2   148.6     5.00     4.19     4.65     YES
HRDOW7
 L0000016         0   0.61728E-02  566157.7 4191802.3   148.8     5.00     4.19     4.65     YES
HRDOW7
 L0000017         0   0.61728E-02  566162.1 4191794.8   149.5     5.00     4.19     4.65     YES
HRDOW7
 L0000018         0   0.61728E-02  566170.3 4191798.7   149.8     5.00     4.19     4.65     YES
HRDOW7
 L0000019         0   0.61728E-02  566178.4 4191802.6   150.5     5.00     4.19     4.65     YES
HRDOW7
 L0000020         0   0.61728E-02  566186.5 4191806.5   151.1     5.00     4.19     4.65     YES
HRDOW7
 L0000021         0   0.61728E-02  566194.6 4191810.4   151.4     5.00     4.19     4.65     YES
HRDOW7
 L0000022         0   0.61728E-02  566202.7 4191814.3   151.8     5.00     4.19     4.65     YES
HRDOW7
 L0000023         0   0.61728E-02  566210.8 4191818.2   152.0     5.00     4.19     4.65     YES
HRDOW7
 L0000024         0   0.61728E-02  566218.9 4191822.1   152.1     5.00     4.19     4.65     YES
HRDOW7
 L0000025         0   0.61728E-02  566227.0 4191826.0   152.8     5.00     4.19     4.65     YES
HRDOW7
 L0000026         0   0.61728E-02  566235.1 4191829.9   153.8     5.00     4.19     4.65     YES
HRDOW7
 L0000027         0   0.61728E-02  566243.3 4191833.8   154.8     5.00     4.19     4.65     YES
HRDOW7
 L0000028         0   0.61728E-02  566249.9 4191838.2   155.0     5.00     4.19     4.65     YES
HRDOW7
 L0000029         0   0.61728E-02  566245.6 4191846.1   153.5     5.00     4.19     4.65     YES
HRDOW7
 L0000030         0   0.61728E-02  566241.4 4191854.1   152.2     5.00     4.19     4.65     YES
HRDOW7
 L0000031         0   0.61728E-02  566237.2 4191862.0   151.4     5.00     4.19     4.65     YES
HRDOW7
 L0000032         0   0.61728E-02  566233.0 4191870.0   151.2     5.00     4.19     4.65     YES
HRDOW7
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000041	0	0.61728E-02	566178.9	4191896.7	151.8	5.00	4.19	4.65	YES	HRDOW7
L0000042	0	0.61728E-02	566170.6	4191893.3	151.0	5.00	4.19	4.65	YES	HRDOW7
L0000043	0	0.61728E-02	566162.3	4191889.8	151.0	5.00	4.19	4.65	YES	HRDOW7
L0000044	0	0.61728E-02	566154.0	4191886.4	151.2	5.00	4.19	4.65	YES	HRDOW7
L0000045	0	0.61728E-02	566145.6	4191883.0	151.4	5.00	4.19	4.65	YES	HRDOW7
L0000046	0	0.61728E-02	566137.3	4191879.5	151.6	5.00	4.19	4.65	YES	HRDOW7
L0000047	0	0.61728E-02	566129.0	4191876.1	151.7	5.00	4.19	4.65	YES	HRDOW7
L0000048	0	0.61728E-02	566120.7	4191872.7	151.4	5.00	4.19	4.65	YES	HRDOW7
L0000049	0	0.61728E-02	566112.4	4191869.2	150.9	5.00	4.19	4.65	YES	HRDOW7
L0000050	0	0.61728E-02	566104.0	4191865.8	150.3	5.00	4.19	4.65	YES	HRDOW7
L0000051	0	0.61728E-02	566095.7	4191862.4	149.7	5.00	4.19	4.65	YES	HRDOW7
L0000052	0	0.61728E-02	566087.4	4191858.9	149.3	5.00	4.19	4.65	YES	HRDOW7
L0000053	0	0.61728E-02	566079.1	4191855.5	149.3	5.00	4.19	4.65	YES	

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HRDOW7
 L0000054         0   0.61728E-02  566070.8 4191852.1   149.4     5.00     4.19     4.65     YES
HRDOW7
 L0000055         0   0.61728E-02  566073.2 4191844.3   148.4     5.00     4.19     4.65     YES
HRDOW7
 L0000056         0   0.61728E-02  566081.6 4191847.4   148.5     5.00     4.19     4.65     YES
HRDOW7
 L0000057         0   0.61728E-02  566090.1 4191850.4   148.4     5.00     4.19     4.65     YES
HRDOW7
 L0000058         0   0.61728E-02  566098.5 4191853.5   148.3     5.00     4.19     4.65     YES
HRDOW7
 L0000059         0   0.61728E-02  566107.0 4191856.6   148.4     5.00     4.19     4.65     YES
HRDOW7
 L0000060         0   0.61728E-02  566115.4 4191859.7   148.8     5.00     4.19     4.65     YES
HRDOW7
 L0000061         0   0.61728E-02  566123.9 4191862.8   149.4     5.00     4.19     4.65     YES
HRDOW7
 L0000062         0   0.61728E-02  566131.6 4191863.8   149.6     5.00     4.19     4.65     YES
HRDOW7
 L0000063         0   0.61728E-02  566136.0 4191855.9   148.7     5.00     4.19     4.65     YES
HRDOW7
 L0000064         0   0.61728E-02  566140.4 4191848.1   148.7     5.00     4.19     4.65     YES
HRDOW7
 L0000065         0   0.61728E-02  566144.8 4191840.3   148.7     5.00     4.19     4.65     YES
HRDOW7
 L0000066         0   0.61728E-02  566149.2 4191832.4   148.7     5.00     4.19     4.65     YES
HRDOW7
 L0000067         0   0.61728E-02  566153.7 4191824.6   148.7     5.00     4.19     4.65     YES
HRDOW7
 L0000068         0   0.61728E-02  566158.1 4191816.7   148.8     5.00     4.19     4.65     YES
HRDOW7
 L0000069         0   0.61728E-02  566162.5 4191808.9   149.1     5.00     4.19     4.65     YES
HRDOW7
 L0000070         0   0.61728E-02  566169.7 4191809.6   149.5     5.00     4.19     4.65     YES
HRDOW7
 L0000071         0   0.61728E-02  566178.0 4191813.3   149.9     5.00     4.19     4.65     YES
HRDOW7
 L0000072         0   0.61728E-02  566186.2 4191817.0   150.2     5.00     4.19     4.65     YES
HRDOW7
 L0000073         0   0.61728E-02  566194.4 4191820.7   150.2     5.00     4.19     4.65     YES
HRDOW7
 L0000074         0   0.61728E-02  566202.6 4191824.3   150.4     5.00     4.19     4.65     YES
HRDOW7
 L0000075         0   0.61728E-02  566210.8 4191828.0   150.4     5.00     4.19     4.65     YES
HRDOW7
 L0000076         0   0.61728E-02  566219.0 4191831.7   150.9     5.00     4.19     4.65     YES
HRDOW7
 L0000077         0   0.61728E-02  566227.2 4191835.4   152.1     5.00     4.19     4.65     YES
HRDOW7
 L0000078         0   0.61728E-02  566235.4 4191839.1   153.0     5.00     4.19     4.65     YES
HRDOW7
 L0000079         0   0.61728E-02  566236.6 4191845.3   152.6     5.00     4.19     4.65     YES
HRDOW7
 L0000080         0   0.61728E-02  566232.6 4191853.4   151.5     5.00     4.19     4.65     YES
HRDOW7
*** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000081	0	0.61728E-02	566228.6	4191861.5	150.9	5.00	4.19	4.65	YES	HRDOW7
L0000082	0	0.61728E-02	566224.7	4191869.6	150.9	5.00	4.19	4.65	YES	HRDOW7
L0000083	0	0.61728E-02	566220.7	4191877.6	151.0	5.00	4.19	4.65	YES	HRDOW7
L0000084	0	0.61728E-02	566216.7	4191885.7	151.3	5.00	4.19	4.65	YES	HRDOW7
L0000085	0	0.61728E-02	566212.8	4191893.8	152.1	5.00	4.19	4.65	YES	HRDOW7
L0000086	0	0.61728E-02	566208.8	4191901.9	153.6	5.00	4.19	4.65	YES	HRDOW7
L0000087	0	0.61728E-02	566200.9	4191899.7	153.2	5.00	4.19	4.65	YES	HRDOW7
L0000088	0	0.61728E-02	566192.5	4191896.3	152.4	5.00	4.19	4.65	YES	HRDOW7
L0000089	0	0.61728E-02	566184.2	4191893.0	151.5	5.00	4.19	4.65	YES	HRDOW7
L0000090	0	0.61728E-02	566175.8	4191889.7	150.7	5.00	4.19	4.65	YES	HRDOW7
L0000091	0	0.61728E-02	566167.5	4191886.3	150.5	5.00	4.19	4.65	YES	HRDOW7
L0000092	0	0.61728E-02	566159.1	4191883.0	150.7	5.00	4.19	4.65	YES	HRDOW7
L0000093	0	0.61728E-02	566150.7	4191879.7	150.9	5.00	4.19	4.65	YES	HRDOW7
L0000094	0	0.61728E-02	566142.4	4191876.3	150.9	5.00	4.19	4.65	YES	HRDOW7
L0000095	0	0.61728E-02	566134.0	4191873.0	150.9	5.00	4.19	4.65	YES	HRDOW7
L0000096	0	0.61728E-02	566137.5	4191865.8	149.8	5.00	4.19	4.65	YES	HRDOW7
L0000097	0	0.61728E-02	566142.2	4191858.1	148.9	5.00	4.19	4.65	YES	HRDOW7
L0000098	0	0.61728E-02	566146.9	4191850.4	148.9	5.00	4.19	4.65	YES	HRDOW7
L0000099	0	0.61728E-02	566151.6	4191842.8	148.9	5.00	4.19	4.65	YES	HRDOW7
L0000100	0	0.61728E-02	566156.3	4191835.1	148.9	5.00	4.19	4.65	YES	HRDOW7
L0000101	0	0.61728E-02	566161.0	4191827.4	148.8	5.00	4.19	4.65	YES	HRDOW7
L0000102	0	0.61728E-02	566165.8	4191819.8	149.1	5.00	4.19	4.65	YES	HRDOW7
L0000103	0	0.61728E-02	566173.8	4191822.5	149.3	5.00	4.19	4.65	YES	HRDOW7
L0000104	0	0.61728E-02	566182.1	4191826.0	149.3	5.00	4.19	4.65	YES	

HRDOW7
 L0000105   0   0.61728E-02 566190.4 4191829.5   149.3   5.00   4.19   4.65   YES
HRDOW7
 L0000106   0   0.61728E-02 566198.7 4191833.0   149.7   5.00   4.19   4.65   YES
HRDOW7
 L0000107   0   0.61728E-02 566207.0 4191836.5   150.1   5.00   4.19   4.65   YES
HRDOW7
 L0000108   0   0.61728E-02 566215.2 4191840.0   150.6   5.00   4.19   4.65   YES
HRDOW7
 L0000109   0   0.61728E-02 566223.5 4191843.5   151.2   5.00   4.19   4.65   YES
HRDOW7
 L0000110   0   0.61728E-02 566225.3 4191849.5   151.1   5.00   4.19   4.65   YES
HRDOW7
 L0000111   0   0.61728E-02 566221.5 4191857.7   150.5   5.00   4.19   4.65   YES
HRDOW7
 L0000112   0   0.61728E-02 566217.6 4191865.8   150.6   5.00   4.19   4.65   YES
HRDOW7
 L0000113   0   0.61728E-02 566213.8 4191874.0   150.8   5.00   4.19   4.65   YES
HRDOW7
 L0000114   0   0.61728E-02 566210.0 4191882.1   151.0   5.00   4.19   4.65   YES
HRDOW7
 L0000115   0   0.61728E-02 566206.2 4191890.3   151.4   5.00   4.19   4.65   YES
HRDOW7
 L0000116   0   0.61728E-02 566198.9 4191890.1   151.3   5.00   4.19   4.65   YES
HRDOW7
 L0000117   0   0.61728E-02 566190.5 4191886.9   151.0   5.00   4.19   4.65   YES
HRDOW7
 L0000118   0   0.61728E-02 566182.1 4191883.8   150.6   5.00   4.19   4.65   YES
HRDOW7
 L0000119   0   0.61728E-02 566173.6 4191880.7   150.2   5.00   4.19   4.65   YES
HRDOW7
 L0000120   0   0.61728E-02 566165.2 4191877.5   150.2   5.00   4.19   4.65   YES
HRDOW7

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.   URBAN
EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ   SOURCE
SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
BY
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L0000125	0	0.61728E-02	566157.5	4191849.4	149.1	5.00	4.19	4.65	YES
HRDOW7									
L0000126	0	0.61728E-02	566162.0	4191841.6	149.1	5.00	4.19	4.65	YES
HRDOW7									
L0000127	0	0.61728E-02	566166.4	4191833.7	149.0	5.00	4.19	4.65	YES
HRDOW7									
L0000128	0	0.61728E-02	566173.3	4191832.7	149.2	5.00	4.19	4.65	YES
HRDOW7									
L0000129	0	0.61728E-02	566181.7	4191835.9	149.3	5.00	4.19	4.65	YES
HRDOW7									
L0000130	0	0.61728E-02	566190.1	4191839.2	149.4	5.00	4.19	4.65	YES
HRDOW7									
L0000131	0	0.61728E-02	566198.5	4191842.4	149.7	5.00	4.19	4.65	YES
HRDOW7									
L0000132	0	0.61728E-02	566206.9	4191845.6	150.1	5.00	4.19	4.65	YES
HRDOW7									
L0000133	0	0.61728E-02	566215.3	4191848.8	150.4	5.00	4.19	4.65	YES
HRDOW7									
L0000134	0	0.61728E-02	566214.4	4191855.6	150.3	5.00	4.19	4.65	YES
HRDOW7									
L0000135	0	0.61728E-02	566210.3	4191863.6	150.3	5.00	4.19	4.65	YES
HRDOW7									
L0000136	0	0.61728E-02	566206.1	4191871.6	150.6	5.00	4.19	4.65	YES
HRDOW7									
L0000137	0	0.61728E-02	566202.0	4191879.6	150.8	5.00	4.19	4.65	YES
HRDOW7									
L0000138	0	0.61728E-02	566195.9	4191882.2	150.9	5.00	4.19	4.65	YES
HRDOW7									
L0000139	0	0.61728E-02	566187.5	4191878.8	150.5	5.00	4.19	4.65	YES
HRDOW7									
L0000140	0	0.61728E-02	566179.2	4191875.4	150.2	5.00	4.19	4.65	YES
HRDOW7									
L0000141	0	0.61728E-02	566170.9	4191872.0	149.9	5.00	4.19	4.65	YES
HRDOW7									
L0000142	0	0.61728E-02	566162.5	4191868.6	149.8	5.00	4.19	4.65	YES
HRDOW7									
L0000143	0	0.61728E-02	566159.2	4191863.4	149.5	5.00	4.19	4.65	YES
HRDOW7									
L0000144	0	0.61728E-02	566163.7	4191855.6	149.3	5.00	4.19	4.65	YES
HRDOW7									
L0000145	0	0.61728E-02	566168.1	4191847.8	149.2	5.00	4.19	4.65	YES
HRDOW7									
L0000146	0	0.61728E-02	566174.0	4191843.7	149.3	5.00	4.19	4.65	YES
HRDOW7									
L0000147	0	0.61728E-02	566182.5	4191846.6	149.4	5.00	4.19	4.65	YES
HRDOW7									
L0000148	0	0.61728E-02	566191.0	4191849.5	149.6	5.00	4.19	4.65	YES
HRDOW7									
L0000149	0	0.61728E-02	566199.5	4191852.4	149.8	5.00	4.19	4.65	YES
HRDOW7									
L0000150	0	0.61728E-02	566206.8	4191855.8	150.0	5.00	4.19	4.65	YES
HRDOW7									
L0000151	0	0.61728E-02	566202.6	4191863.7	150.1	5.00	4.19	4.65	YES
HRDOW7									
L0000152	0	0.61728E-02	566198.5	4191871.7	150.4	5.00	4.19	4.65	YES
HRDOW7									
L0000153	0	0.61728E-02	566191.2	4191871.6	150.3	5.00	4.19	4.65	YES
HRDOW7									
L0000154	0	0.61728E-02	566182.8	4191868.5	150.0	5.00	4.19	4.65	YES
HRDOW7									
L0000155	0	0.61728E-02	566174.3	4191865.4	149.7	5.00	4.19	4.65	YES

HRDOW7
 L0000156   0   0.61728E-02 566169.6 4191860.6   149.5   5.00   4.19   4.65   YES
HRDOW7
 L0000157   0   0.61728E-02 566173.2 4191852.3   149.4   5.00   4.19   4.65   YES
HRDOW7
 L0000158   0   0.61728E-02 566181.3 4191854.5   149.5   5.00   4.19   4.65   YES
HRDOW7
 L0000159   0   0.61728E-02 566189.8 4191857.4   149.7   5.00   4.19   4.65   YES
HRDOW7
 L0000160   0   0.61728E-02 566196.2 4191861.2   149.9   5.00   4.19   4.65   YES
HRDOW7

*** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.   URBAN
EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ   SOURCE
SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
BY
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- - - - - - - - - -

 L0000161   0   0.61728E-02 566189.6 4191864.0   149.9   5.00   4.19   4.65   YES
HRDOW7
 L0000162   0   0.61728E-02 566181.0 4191861.3   149.7   5.00   4.19   4.65   YES
HRDOW7

*** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA BASE   RELEASE NUMBER   INIT.   URBAN
EMISSION RATE
   SOURCE   PART. (GRAMS/SEC   X   Y   ELEV.   HEIGHT OF VERTS.   SZ   SOURCE
SCALAR VARY
     ID   CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)   (METERS)
   BY
 -
- - - - - - - - - - - - -

 PAREA1   0   0.10088E-03 566063.0 4191848.6   149.5   2.00   6   0.00   YES
HRDOW7

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
PAREA1	PAREA1 ,
SLINE1	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
	L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
	L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
	L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,
	L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,
	L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 ,
	L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , L0000104 ,
	L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 , L0000112 ,
	L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , L0000119 , L0000120 ,
	L0000121 , L0000122 , L0000123 , L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

             L0000153   , L0000154   , L0000155   , L0000156   , L0000157   , L0000158   ,
L0000159   , L0000160   ,

             L0000161   , L0000162   ,

  ALL   L0000001   , L0000002   , L0000003   , L0000004   , L0000005   , L0000006   ,
L0000007   , L0000008   ,

             L0000009   , L0000010   , L0000011   , L0000012   , L0000013   , L0000014   ,
L0000015   , L0000016   ,

             L0000017   , L0000018   , L0000019   , L0000020   , L0000021   , L0000022   ,
L0000023   , L0000024   ,

             L0000025   , L0000026   , L0000027   , L0000028   , L0000029   , L0000030   ,
L0000031   , L0000032   ,

             L0000033   , L0000034   , L0000035   , L0000036   , L0000037   , L0000038   ,
L0000039   , L0000040   ,

             L0000041   , L0000042   , L0000043   , L0000044   , L0000045   , L0000046   ,
L0000047   , L0000048   ,

             L0000049   , L0000050   , L0000051   , L0000052   , L0000053   , L0000054   ,
L0000055   , L0000056   ,

             L0000057   , L0000058   , L0000059   , L0000060   , L0000061   , L0000062   ,
L0000063   , L0000064   ,

             L0000065   , L0000066   , L0000067   , L0000068   , L0000069   , L0000070   ,
L0000071   , L0000072   ,

             L0000073   , L0000074   , L0000075   , L0000076   , L0000077   , L0000078   ,
L0000079   , L0000080   ,

             L0000081   , L0000082   , L0000083   , L0000084   , L0000085   , L0000086   ,
L0000087   , L0000088   ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 ,
L0000151 , L0000152 ,

L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 ,
L0000159 , L0000160 ,

L0000161 , L0000162 , PAREA1 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

1671329. L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 ,
L0000008 ,

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             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    , L0000014    ,
L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    , L0000022    ,
L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    , L0000029    , L0000030    ,
L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    , L0000037    , L0000038    ,
L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    , L0000045    , L0000046    ,
L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    , L0000054    ,
L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    , L0000061    , L0000062    ,
L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    , L0000069    , L0000070    ,
L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    , L0000077    , L0000078    ,
L0000079    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    , L0000085    , L0000086    ,
L0000087    , L0000088    ,

             L0000089    , L0000090    , L0000091    , L0000092    , L0000093    , L0000094    ,
L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    , L0000101    , L0000102    ,
L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    , L0000109    , L0000110    ,
L0000111    , L0000112    ,

             L0000113    , L0000114    , L0000115    , L0000116    , L0000117    , L0000118    ,
L0000119    , L0000120    ,

             L0000121    , L0000122    , L0000123    , L0000124    , L0000125    , L0000126    ,
L0000127    , L0000128    ,

             L0000129    , L0000130    , L0000131    , L0000132    , L0000133    , L0000134    ,
L0000135    , L0000136    ,

             L0000137    , L0000138    , L0000139    , L0000140    , L0000141    , L0000142    ,
L0000143    , L0000144    ,

             L0000145    , L0000146    , L0000147    , L0000148    , L0000149    , L0000150    ,
L0000151    , L0000152    ,

             L0000153    , L0000154    , L0000155    , L0000156    , L0000157    , L0000158    ,
L0000159    , L0000160    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***       07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0000161 , L0000162 , PAREA1 ,

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000001 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000002 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15													

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								

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								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000003 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

DAY OF WEEK = FRIDAY

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								

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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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
.0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+01
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23
.0000E+00   24  .0000E+00
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  18
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000007 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000008     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000009 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15

.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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

                                          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

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000010   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000011     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000012     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  25
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000013     ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000014     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000015 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000017   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000018   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - -

```
    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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000019     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000020 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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

.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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000021   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000022 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          DAY OF WEEK = FRIDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000024 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR
- - - -

.0000E+00   24 .0000E+00

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000025 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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

                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  38
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000027 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15

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.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  40
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000028     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          DAY OF WEEK = WEDNESDY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
.0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  41
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+01
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23
.0000E+00   24  .0000E+00

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
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.0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000031     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23
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.0000E+00   24  .0000E+00
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  44
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000032     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          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  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  45
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000033     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
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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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000034 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

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  SCALAR   HOUR   SCALAR
 - - -
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 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000036     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000037 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000038 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

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													

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000039 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

DAY OF WEEK = SUNDAY

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000040 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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										

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000041 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000042   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -
                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000043 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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

                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000044     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000045 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  58
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000046     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000047 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000048     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE  61
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000050 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000051     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000052 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15

```
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000053     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  66
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
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- - - -

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 SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000057 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

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								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000058 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000059     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR
- - - -

.0000E+00   24 .0000E+00

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  74
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000062     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000063 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15													

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								

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								

.4200E+01   16 .4200E+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

                                                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

                                                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

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000064   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -

                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                                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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  77
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000065     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
    ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  78
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000066     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15
.4200E+01 16 .4200E+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

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 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15
.4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000067 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR
- - - -

.0000E+00   24 .0000E+00

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000068 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  81
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000069     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000070 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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

                                          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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000071   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          DAY OF WEEK = TUESDAY

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
.0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE  84
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000072     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+01
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23
.0000E+00   24  .0000E+00

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55

               PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000073     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000074   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- -

```
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000075     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000076 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000077 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000078   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - -

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000079   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000080     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000081 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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

.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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000082   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - -

```
    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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000083     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000084     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15
.4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000085 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR
- - - -

.0000E+00   24 .0000E+00

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000086 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE  99
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000087     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000088 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	

```
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 101
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000089     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 102
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000090     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 103
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000091     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000092     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

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 .4200E+01
   9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
   9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
   9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
   9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000093   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - -

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 .4200E+01

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 106
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000094     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
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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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000095 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

```
  SCALAR   HOUR   SCALAR
 - - -
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```
 SOURCE ID = L0000096     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000097 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000098 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

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								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000099 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

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													

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000100   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - -
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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
                                          DAY OF WEEK = SUNDAY

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000101 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000102 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
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

DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

DAY OF WEEK = WEDNESDY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

DAY OF WEEK = THURSDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

DAY OF WEEK = FRIDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

DAY OF WEEK = SATURDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
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
                                          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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000103   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000104     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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

                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE 117
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000105     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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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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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000106 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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

                                          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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000107   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 120
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000108     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
    ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 121
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000109     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          DAY OF WEEK = WEDNESDY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
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```
.0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55

               PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000110     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000111 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000112     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000113 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15

```
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000114     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000115     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
```

- - - -

SOURCE ID = L0000116 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000117 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000118 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

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								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000119 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 132
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000120     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000121     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000122 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000123 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000124 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15													

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								

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								

.4200E+01   16 .4200E+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

                                          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

                                          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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000125   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000126     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 139
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000127     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15
.4200E+01 16 .4200E+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

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 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15
.4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000128 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR
- - - -

.0000E+00   24 .0000E+00

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000129 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE 142
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000130     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000131 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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

                                          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

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000132   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE 145
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000133     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 146
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000134     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 147
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000135     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE 148
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000136     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 149
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000137 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000138 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000139   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000140   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR
- - - -

```
    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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000141     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000142 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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

DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000143   ; SOURCE TYPE = VOLUME   :

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

DAY OF WEEK = SATURDAY

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000144 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01										

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23
.0000E+00   24  .0000E+00
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 157
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000145     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15
.4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000146 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR
- - - -

.0000E+00   24 .0000E+00

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000147 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000148     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
```

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000149 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15

.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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

                                          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

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000150   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - - -

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000151     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+01
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23
.0000E+00   24  .0000E+00
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 164
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000152     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                          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
                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 165
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000153     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000154 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                          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

                                          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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

               PAGE 167
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000155     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
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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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+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

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

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000156 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

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  SCALAR   HOUR   SCALAR
 - - -
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 SOURCE ID = L0000157     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                              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
                                              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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000158     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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
                                                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
                                                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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000159 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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	.4200E+01												
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+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												

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												

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												

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000160 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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								

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													

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000161   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 -
- - - - - - - - - - - - -
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15
.4200E+01   16 .4200E+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
                                          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
                                          DAY OF WEEK = SUNDAY

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000162 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+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								

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

                                                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 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
*** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
    ***        10:56:55

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = PAREA1       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

                                                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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                                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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                                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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                                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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                                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  .4200E+01
   9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01   14  .4200E+01   15
.4200E+01   16  .4200E+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

                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

    (565570.5, 4191234.2,   89.8,   580.5,   0.0);   (565590.5, 4191234.2,
90.8,   580.5,   0.0);
    (565610.5, 4191234.2,   91.8,   580.5,   0.0);   (565630.5, 4191234.2,
92.7,   580.5,   0.0);
    (565650.5, 4191234.2,   93.5,   580.5,   0.0);   (565670.5, 4191234.2,
94.4,   580.5,   0.0);
    (565690.5, 4191234.2,   95.4,   580.5,   0.0);   (565710.5, 4191234.2,
96.4,   580.5,   0.0);
    (565730.5, 4191234.2,   97.5,   580.5,   0.0);   (565750.5, 4191234.2,
98.6,   580.5,   0.0);
    (565770.5, 4191234.2,   99.8,   580.5,   0.0);   (565790.5, 4191234.2,
101.0,   580.5,   0.0);
    (565810.5, 4191234.2,   101.9,   580.5,   0.0);   (565830.5, 4191234.2,
102.6,   580.5,   0.0);
    (565850.5, 4191234.2,   103.8,   580.5,   0.0);   (565870.5, 4191234.2,
105.0,   580.5,   0.0);
    (565890.5, 4191234.2,   106.2,   580.5,   0.0);   (565910.5, 4191234.2,
107.1,   580.5,   0.0);
    (565930.5, 4191234.2,   108.0,   580.5,   0.0);   (565950.5, 4191234.2,
109.3,   580.5,   0.0);
    (565970.5, 4191234.2,   110.7,   580.5,   0.0);   (565990.5, 4191234.2,
112.2,   580.5,   0.0);
    (566010.5, 4191234.2,   114.0,   580.5,   0.0);   (566030.5, 4191234.2,
116.1,   580.5,   0.0);
    (566050.5, 4191234.2,   118.7,   580.5,   0.0);   (566070.5, 4191234.2,
121.2,   580.5,   0.0);
    (566090.5, 4191234.2,   123.5,   580.5,   0.0);   (566110.5, 4191234.2,
125.8,   580.5,   0.0);
    (566130.5, 4191234.2,   128.4,   580.5,   0.0);   (566150.5, 4191234.2,
131.1,   580.5,   0.0);
    (566170.5, 4191234.2,   134.8,   580.5,   0.0);   (566190.5, 4191234.2,
138.7,   580.5,   0.0);
    (566210.5, 4191234.2,   142.9,   580.5,   0.0);   (566230.5, 4191234.2,
147.1,   580.5,   0.0);
    (566250.5, 4191234.2,   151.4,   580.5,   0.0);   (566270.5, 4191234.2,
157.0,   580.5,   0.0);
    (566290.5, 4191234.2,   164.0,   580.5,   0.0);   (566310.5, 4191234.2,

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171.7,     580.5,       0.0);
     ( 566330.5, 4191234.2,     180.0,     580.5,       0.0);         ( 566350.5, 4191234.2,
189.2,     580.5,       0.0);
     ( 566370.5, 4191234.2,     199.4,     580.5,       0.0);         ( 566390.5, 4191234.2,
209.5,     580.5,       0.0);
     ( 566410.5, 4191234.2,     218.8,     580.5,       0.0);         ( 566430.5, 4191234.2,
226.6,     580.5,       0.0);
     ( 566450.5, 4191234.2,     233.1,     580.5,       0.0);         ( 566470.5, 4191234.2,
238.9,     580.5,       0.0);
     ( 566490.5, 4191234.2,     242.2,     580.5,       0.0);         ( 566510.5, 4191234.2,
242.9,     580.5,       0.0);
     ( 566530.5, 4191234.2,     243.7,     580.5,       0.0);         ( 566550.5, 4191234.2,
244.5,     580.5,       0.0);
     ( 566570.5, 4191234.2,     245.7,     580.5,       0.0);         ( 565570.5, 4191254.2,
90.1,      580.5,       0.0);
     ( 565590.5, 4191254.2,      91.2,     580.5,       0.0);         ( 565610.5, 4191254.2,
92.1,      580.5,       0.0);
     ( 565630.5, 4191254.2,      92.9,     580.5,       0.0);         ( 565650.5, 4191254.2,
93.7,      580.5,       0.0);
     ( 565670.5, 4191254.2,      94.6,     580.5,       0.0);         ( 565690.5, 4191254.2,
95.6,      580.5,       0.0);
     ( 565710.5, 4191254.2,      96.6,     580.5,       0.0);         ( 565730.5, 4191254.2,
97.6,      580.5,       0.0);
     ( 565750.5, 4191254.2,      98.7,     580.5,       0.0);         ( 565770.5, 4191254.2,
99.9,      580.5,       0.0);
     ( 565790.5, 4191254.2,     101.1,     580.5,       0.0);         ( 565810.5, 4191254.2,
102.1,     580.5,       0.0);
     ( 565830.5, 4191254.2,     103.1,     580.5,       0.0);         ( 565850.5, 4191254.2,
104.3,     580.5,       0.0);
     ( 565870.5, 4191254.2,     105.6,     580.5,       0.0);         ( 565890.5, 4191254.2,
106.9,     580.5,       0.0);
     ( 565910.5, 4191254.2,     108.0,     580.5,       0.0);         ( 565930.5, 4191254.2,
108.9,     580.5,       0.0);
     ( 565950.5, 4191254.2,     110.2,     580.5,       0.0);         ( 565970.5, 4191254.2,
111.5,     580.5,       0.0);
     ( 565990.5, 4191254.2,     112.9,     580.5,       0.0);         ( 566010.5, 4191254.2,
114.5,     580.5,       0.0);
     ( 566030.5, 4191254.2,     116.6,     580.5,       0.0);         ( 566050.5, 4191254.2,
119.5,     580.5,       0.0);
     ( 566070.5, 4191254.2,     122.2,     580.5,       0.0);         ( 566090.5, 4191254.2,
124.6,     580.5,       0.0);
     ( 566110.5, 4191254.2,     127.1,     580.5,       0.0);         ( 566130.5, 4191254.2,
129.8,     580.5,       0.0);
     ( 566150.5, 4191254.2,     132.9,     580.5,       0.0);         ( 566170.5, 4191254.2,
136.5,     580.5,       0.0);
     ( 566190.5, 4191254.2,     140.0,     580.5,       0.0);         ( 566210.5, 4191254.2,
143.9,     580.5,       0.0);
     ( 566230.5, 4191254.2,     148.2,     580.5,       0.0);         ( 566250.5, 4191254.2,
153.0,     580.5,       0.0);
     ( 566270.5, 4191254.2,     159.3,     580.5,       0.0);         ( 566290.5, 4191254.2,
166.2,     580.5,       0.0);
     ( 566310.5, 4191254.2,     173.9,     580.5,       0.0);         ( 566330.5, 4191254.2,
182.2,     580.5,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(566350.5, 4191254.2, 191.1, 580.5, 0.0); (566370.5, 4191254.2, 200.9, 580.5, 0.0);
(566390.5, 4191254.2, 211.7, 580.5, 0.0); (566410.5, 4191254.2, 221.8, 580.5, 0.0);
(566430.5, 4191254.2, 230.0, 580.5, 0.0); (566450.5, 4191254.2, 236.3, 580.5, 0.0);
(566470.5, 4191254.2, 241.6, 580.5, 0.0); (566490.5, 4191254.2, 244.7, 580.5, 0.0);
(566510.5, 4191254.2, 246.4, 580.5, 0.0); (566530.5, 4191254.2, 247.9, 580.5, 0.0);
(566550.5, 4191254.2, 249.5, 580.5, 0.0); (566570.5, 4191254.2, 251.5, 580.5, 0.0);
(565570.5, 4191274.2, 90.5, 580.5, 0.0); (565590.5, 4191274.2, 91.7, 580.5, 0.0);
(565610.5, 4191274.2, 92.5, 580.5, 0.0); (565630.5, 4191274.2, 93.1, 580.5, 0.0);
(565650.5, 4191274.2, 94.0, 580.5, 0.0); (565670.5, 4191274.2, 94.9, 580.5, 0.0);
(565690.5, 4191274.2, 95.8, 580.5, 0.0); (565710.5, 4191274.2, 96.7, 580.5, 0.0);
(565730.5, 4191274.2, 97.8, 580.5, 0.0); (565750.5, 4191274.2, 98.8, 580.5, 0.0);
(565770.5, 4191274.2, 100.0, 580.5, 0.0); (565790.5, 4191274.2, 101.2, 580.5, 0.0);
(565810.5, 4191274.2, 102.4, 580.5, 0.0); (565830.5, 4191274.2, 103.7, 580.5, 0.0);
(565850.5, 4191274.2, 104.9, 580.5, 0.0); (565870.5, 4191274.2, 106.3, 580.5, 0.0);
(565890.5, 4191274.2, 107.8, 580.5, 0.0); (565910.5, 4191274.2, 108.9, 580.5, 0.0);
(565930.5, 4191274.2, 110.0, 580.5, 0.0); (565950.5, 4191274.2, 111.2, 580.5, 0.0);
(565970.5, 4191274.2, 112.4, 580.5, 0.0); (565990.5, 4191274.2, 113.5, 580.5, 0.0);
(566010.5, 4191274.2, 114.9, 580.5, 0.0); (566030.5, 4191274.2, 116.8, 580.5, 0.0);
(566050.5, 4191274.2, 120.0, 580.5, 0.0); (566070.5, 4191274.2, 122.8, 580.5, 0.0);
(566090.5, 4191274.2, 125.5, 580.5, 0.0); (566110.5, 4191274.2, 128.1, 580.5, 0.0);
(566130.5, 4191274.2, 131.2, 580.5, 0.0); (566150.5, 4191274.2, 134.7, 580.5, 0.0);
(566170.5, 4191274.2, 137.9, 580.5, 0.0); (566190.5, 4191274.2, 140.9, 580.5, 0.0);
(566210.5, 4191274.2, 144.5, 580.5, 0.0); (566230.5, 4191274.2, 149.0, 580.5, 0.0);
(566250.5, 4191274.2, 154.5, 580.5, 0.0); (566270.5, 4191274.2, 161.4, 580.5, 0.0);
(566290.5, 4191274.2, 167.8, 580.5, 0.0); (566310.5, 4191274.2, 174.9, 580.5, 0.0);
(566330.5, 4191274.2, 182.8, 580.5, 0.0); (566350.5, 4191274.2, 191.4, 580.5, 0.0);
(566370.5, 4191274.2, 200.2, 580.5, 0.0); (566390.5, 4191274.2, 211.0, 580.5, 0.0);
(566410.5, 4191274.2, 221.1, 580.5, 0.0); (566430.5, 4191274.2, 229.1, 580.5, 0.0);
(566450.5, 4191274.2, 234.8, 580.5, 0.0); (566470.5, 4191274.2,

239.0,   580.5,   0.0);
     (566490.5, 4191274.2,   241.9,   580.5,   0.0);   (566510.5, 4191274.2,
245.0,   580.5,   0.0);
     (566530.5, 4191274.2,   248.5,   580.5,   0.0);   (566550.5, 4191274.2,
252.0,   580.5,   0.0);
     (566570.5, 4191274.2,   255.4,   580.5,   0.0);   (565570.5, 4191294.2,
91.0,   580.5,   0.0);
     (565590.5, 4191294.2,   92.2,   580.5,   0.0);   (565610.5, 4191294.2,
92.9,   580.5,   0.0);
     (565630.5, 4191294.2,   93.7,   580.5,   0.0);   (565650.5, 4191294.2,
94.6,   580.5,   0.0);
     (565670.5, 4191294.2,   95.5,   580.5,   0.0);   (565690.5, 4191294.2,
96.4,   580.5,   0.0);
     (565710.5, 4191294.2,   97.2,   580.5,   0.0);   (565730.5, 4191294.2,
98.3,   580.5,   0.0);
     (565750.5, 4191294.2,   99.3,   580.5,   0.0);   (565770.5, 4191294.2,
100.3,   580.5,   0.0);
     (565790.5, 4191294.2,   101.5,   580.5,   0.0);   (565810.5, 4191294.2,
102.8,   580.5,   0.0);
     (565830.5, 4191294.2,   104.3,   580.5,   0.0);   (565850.5, 4191294.2,
105.7,   580.5,   0.0);
     (565870.5, 4191294.2,   107.2,   580.5,   0.0);   (565890.5, 4191294.2,
108.8,   580.5,   0.0);
     (565910.5, 4191294.2,   110.1,   580.5,   0.0);   (565930.5, 4191294.2,
111.5,   580.5,   0.0);
     (565950.5, 4191294.2,   112.8,   580.5,   0.0);   (565970.5, 4191294.2,
113.8,   580.5,   0.0);
     (565990.5, 4191294.2,   114.7,   580.5,   0.0);   (566010.5, 4191294.2,
115.7,   580.5,   0.0);
     (566030.5, 4191294.2,   117.2,   580.5,   0.0);   (566050.5, 4191294.2,
119.9,   580.5,   0.0);
     (566070.5, 4191294.2,   122.8,   580.5,   0.0);   (566090.5, 4191294.2,
125.7,   580.5,   0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

     (566110.5, 4191294.2,   128.7,   580.5,   0.0);   (566130.5, 4191294.2,
132.1,   580.5,   0.0);
     (566150.5, 4191294.2,   136.0,   580.5,   0.0);   (566170.5, 4191294.2,
139.2,   580.5,   0.0);
     (566190.5, 4191294.2,   141.8,   580.5,   0.0);   (566210.5, 4191294.2,
145.1,   580.5,   0.0);
     (566230.5, 4191294.2,   149.4,   580.5,   0.0);   (566250.5, 4191294.2,
154.6,   580.5,   0.0);
     (566270.5, 4191294.2,   161.8,   580.5,   0.0);   (566290.5, 4191294.2,
168.1,   580.5,   0.0);
     (566310.5, 4191294.2,   174.5,   580.5,   0.0);   (566330.5, 4191294.2,
181.4,   580.5,   0.0);
     (566350.5, 4191294.2,   188.8,   580.5,   0.0);   (566370.5, 4191294.2,
196.5,   580.5,   0.0);
     (566390.5, 4191294.2,   206.1,   580.5,   0.0);   (566410.5, 4191294.2,
215.0,   580.5,   0.0);

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    ( 566430.5, 4191294.2,     222.4,     580.5,       0.0);        ( 566450.5, 4191294.2,
228.3,     580.5,       0.0);
    ( 566470.5, 4191294.2,     233.0,     580.5,       0.0);        ( 566490.5, 4191294.2,
236.4,     580.5,       0.0);
    ( 566510.5, 4191294.2,     240.7,     580.5,       0.0);        ( 566530.5, 4191294.2,
245.0,     580.5,       0.0);
    ( 566550.5, 4191294.2,     248.8,     580.5,       0.0);        ( 566570.5, 4191294.2,
252.5,     580.5,       0.0);
    ( 565570.5, 4191314.2,      91.3,     580.5,       0.0);        ( 565590.5, 4191314.2,
92.5,     580.5,       0.0);
    ( 565610.5, 4191314.2,      93.5,     580.5,       0.0);        ( 565630.5, 4191314.2,
94.4,     580.5,       0.0);
    ( 565650.5, 4191314.2,      95.4,     580.5,       0.0);        ( 565670.5, 4191314.2,
96.3,     580.5,       0.0);
    ( 565690.5, 4191314.2,      97.1,     580.5,       0.0);        ( 565710.5, 4191314.2,
97.9,     580.5,       0.0);
    ( 565730.5, 4191314.2,      98.9,     580.5,       0.0);        ( 565750.5, 4191314.2,
99.9,     580.5,       0.0);
    ( 565770.5, 4191314.2,     101.0,     580.5,       0.0);        ( 565790.5, 4191314.2,
102.1,     580.5,       0.0);
    ( 565810.5, 4191314.2,     103.3,     580.5,       0.0);        ( 565830.5, 4191314.2,
104.9,     580.5,       0.0);
    ( 565850.5, 4191314.2,     106.5,     580.5,       0.0);        ( 565870.5, 4191314.2,
108.2,     580.5,       0.0);
    ( 565890.5, 4191314.2,     109.8,     580.5,       0.0);        ( 565910.5, 4191314.2,
111.3,     580.5,       0.0);
    ( 565930.5, 4191314.2,     113.0,     580.5,       0.0);        ( 565950.5, 4191314.2,
114.4,     580.5,       0.0);
    ( 565970.5, 4191314.2,     115.4,     580.5,       0.0);        ( 565990.5, 4191314.2,
116.2,     580.5,       0.0);
    ( 566010.5, 4191314.2,     117.1,     580.5,       0.0);        ( 566030.5, 4191314.2,
118.3,     580.5,       0.0);
    ( 566050.5, 4191314.2,     120.2,     580.5,       0.0);        ( 566070.5, 4191314.2,
123.0,     580.5,       0.0);
    ( 566090.5, 4191314.2,     126.0,     580.5,       0.0);        ( 566110.5, 4191314.2,
129.2,     580.5,       0.0);
    ( 566130.5, 4191314.2,     132.8,     580.5,       0.0);        ( 566150.5, 4191314.2,
137.0,     580.5,       0.0);
    ( 566170.5, 4191314.2,     140.3,     580.5,       0.0);        ( 566190.5, 4191314.2,
143.0,     580.5,       0.0);
    ( 566210.5, 4191314.2,     146.0,     580.5,       0.0);        ( 566230.5, 4191314.2,
149.9,     580.5,       0.0);
    ( 566250.5, 4191314.2,     154.5,     580.5,       0.0);        ( 566270.5, 4191314.2,
161.3,     580.5,       0.0);
    ( 566290.5, 4191314.2,     167.3,     580.5,       0.0);        ( 566310.5, 4191314.2,
173.0,     580.5,       0.0);
    ( 566330.5, 4191314.2,     178.9,     580.5,       0.0);        ( 566350.5, 4191314.2,
185.1,     580.5,       0.0);
    ( 566370.5, 4191314.2,     191.6,     580.5,       0.0);        ( 566390.5, 4191314.2,
199.9,     580.5,       0.0);
    ( 566410.5, 4191314.2,     207.8,     580.5,       0.0);        ( 566430.5, 4191314.2,
215.3,     580.5,       0.0);
    ( 566450.5, 4191314.2,     222.4,     580.5,       0.0);        ( 566470.5, 4191314.2,
228.4,     580.5,       0.0);
    ( 566490.5, 4191314.2,     232.1,     580.5,       0.0);        ( 566510.5, 4191314.2,
236.8,     580.5,       0.0);
    ( 566530.5, 4191314.2,     241.1,     580.5,       0.0);        ( 566550.5, 4191314.2,
245.0,     580.5,       0.0);
    ( 566570.5, 4191314.2,     249.2,     580.5,       0.0);        ( 565570.5, 4191334.2,
91.5,     580.5,       0.0);
    ( 565590.5, 4191334.2,      92.7,     580.5,       0.0);        ( 565610.5, 4191334.2,
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93.9,   580.5,   0.0);
     (565630.5, 4191334.2,   95.1,   580.5,   0.0);   (565650.5, 4191334.2,
96.2,   580.5,   0.0);
     (565670.5, 4191334.2,   97.0,   580.5,   0.0);   (565690.5, 4191334.2,
97.7,   580.5,   0.0);
     (565710.5, 4191334.2,   98.6,   580.5,   0.0);   (565730.5, 4191334.2,
99.7,   580.5,   0.0);
     (565750.5, 4191334.2,   100.7,   580.5,   0.0);   (565770.5, 4191334.2,
101.7,   580.5,   0.0);
     (565790.5, 4191334.2,   102.9,   580.5,   0.0);   (565810.5, 4191334.2,
104.0,   580.5,   0.0);
     (565830.5, 4191334.2,   105.5,   580.5,   0.0);   (565850.5, 4191334.2,
107.4,   580.5,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

     (565870.5, 4191334.2,   109.1,   580.5,   0.0);   (565890.5, 4191334.2,
110.8,   580.5,   0.0);
     (565910.5, 4191334.2,   112.5,   580.5,   0.0);   (565930.5, 4191334.2,
114.5,   580.5,   0.0);
     (565950.5, 4191334.2,   115.9,   580.5,   0.0);   (565970.5, 4191334.2,
117.0,   580.5,   0.0);
     (565990.5, 4191334.2,   117.8,   580.5,   0.0);   (566010.5, 4191334.2,
118.8,   580.5,   0.0);
     (566030.5, 4191334.2,   119.8,   580.5,   0.0);   (566050.5, 4191334.2,
120.9,   580.5,   0.0);
     (566070.5, 4191334.2,   123.3,   580.5,   0.0);   (566090.5, 4191334.2,
126.5,   580.5,   0.0);
     (566110.5, 4191334.2,   129.8,   580.5,   0.0);   (566130.5, 4191334.2,
133.2,   580.5,   0.0);
     (566150.5, 4191334.2,   137.5,   580.5,   0.0);   (566170.5, 4191334.2,
141.4,   580.5,   0.0);
     (566190.5, 4191334.2,   144.3,   580.5,   0.0);   (566210.5, 4191334.2,
147.2,   580.5,   0.0);
     (566230.5, 4191334.2,   150.5,   580.5,   0.0);   (566250.5, 4191334.2,
154.3,   580.5,   0.0);
     (566270.5, 4191334.2,   159.9,   580.5,   0.0);   (566290.5, 4191334.2,
165.3,   580.5,   0.0);
     (566310.5, 4191334.2,   170.3,   580.5,   0.0);   (566330.5, 4191334.2,
175.1,   580.5,   0.0);
     (566350.5, 4191334.2,   179.9,   580.5,   0.0);   (566370.5, 4191334.2,
185.2,   580.5,   0.0);
     (566390.5, 4191334.2,   192.1,   580.5,   0.0);   (566410.5, 4191334.2,
199.4,   580.5,   0.0);
     (566430.5, 4191334.2,   208.1,   580.5,   0.0);   (566450.5, 4191334.2,
217.5,   580.5,   0.0);
     (566470.5, 4191334.2,   225.9,   580.5,   0.0);   (566490.5, 4191334.2,
230.1,   580.5,   0.0);
     (566510.5, 4191334.2,   234.0,   580.5,   0.0);   (566530.5, 4191334.2,
237.5,   580.5,   0.0);
     (566550.5, 4191334.2,   241.3,   580.5,   0.0);   (566570.5, 4191334.2,
246.2,   580.5,   0.0);

```
     ( 565570.5, 4191354.2,      91.6,     580.5,       0.0);         ( 565590.5, 4191354.2,
92.8,     580.5,       0.0);
     ( 565610.5, 4191354.2,      93.9,     580.5,       0.0);         ( 565630.5, 4191354.2,
95.3,     580.5,       0.0);
     ( 565650.5, 4191354.2,      96.4,     580.5,       0.0);         ( 565670.5, 4191354.2,
97.4,     580.5,       0.0);
     ( 565690.5, 4191354.2,      98.3,     580.5,       0.0);         ( 565710.5, 4191354.2,
99.3,     580.5,       0.0);
     ( 565730.5, 4191354.2,     100.5,     580.5,       0.0);         ( 565750.5, 4191354.2,
101.4,     580.5,       0.0);
     ( 565770.5, 4191354.2,     102.5,     580.5,       0.0);         ( 565790.5, 4191354.2,
103.7,     580.5,       0.0);
     ( 565810.5, 4191354.2,     104.8,     580.5,       0.0);         ( 565830.5, 4191354.2,
106.2,     580.5,       0.0);
     ( 565850.5, 4191354.2,     108.2,     580.5,       0.0);         ( 565870.5, 4191354.2,
110.2,     580.5,       0.0);
     ( 565890.5, 4191354.2,     112.0,     580.5,       0.0);         ( 565910.5, 4191354.2,
113.6,     580.5,       0.0);
     ( 565930.5, 4191354.2,     115.7,     580.5,       0.0);         ( 565950.5, 4191354.2,
117.3,     580.5,       0.0);
     ( 565970.5, 4191354.2,     118.6,     580.5,       0.0);         ( 565990.5, 4191354.2,
119.7,     580.5,       0.0);
     ( 566010.5, 4191354.2,     120.8,     580.5,       0.0);         ( 566030.5, 4191354.2,
121.9,     580.5,       0.0);
     ( 566050.5, 4191354.2,     123.3,     580.5,       0.0);         ( 566070.5, 4191354.2,
124.9,     580.5,       0.0);
     ( 566090.5, 4191354.2,     127.6,     580.5,       0.0);         ( 566110.5, 4191354.2,
131.2,     580.5,       0.0);
     ( 566130.5, 4191354.2,     135.2,     580.5,       0.0);         ( 566150.5, 4191354.2,
138.8,     580.5,       0.0);
     ( 566170.5, 4191354.2,     141.0,     580.5,       0.0);         ( 566190.5, 4191354.2,
144.2,     580.5,       0.0);
     ( 566210.5, 4191354.2,     148.1,     580.5,       0.0);         ( 566230.5, 4191354.2,
151.8,     580.5,       0.0);
     ( 566250.5, 4191354.2,     155.0,     580.5,       0.0);         ( 566270.5, 4191354.2,
159.2,     580.5,       0.0);
     ( 566290.5, 4191354.2,     163.4,     580.5,       0.0);         ( 566310.5, 4191354.2,
167.8,     580.5,       0.0);
     ( 566330.5, 4191354.2,     172.4,     580.5,       0.0);         ( 566350.5, 4191354.2,
177.2,     580.5,       0.0);
     ( 566370.5, 4191354.2,     182.2,     580.5,       0.0);         ( 566390.5, 4191354.2,
188.4,     580.5,       0.0);
     ( 566410.5, 4191354.2,     195.9,     580.5,       0.0);         ( 566430.5, 4191354.2,
205.1,     580.5,       0.0);
     ( 566450.5, 4191354.2,     214.9,     580.5,       0.0);         ( 566470.5, 4191354.2,
223.3,     580.5,       0.0);
     ( 566490.5, 4191354.2,     227.5,     580.5,       0.0);         ( 566510.5, 4191354.2,
230.7,     580.5,       0.0);
     ( 566530.5, 4191354.2,     234.0,     580.5,       0.0);         ( 566550.5, 4191354.2,
238.3,     580.5,       0.0);
     ( 566570.5, 4191354.2,     244.2,     580.5,       0.0);         ( 565570.5, 4191374.2,
91.8,     580.5,       0.0);
     ( 565590.5, 4191374.2,      93.0,     580.5,       0.0);         ( 565610.5, 4191374.2,
94.0,     580.5,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 180
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(565630.5, 4191374.2, 95.3, 580.5, 0.0); (565650.5, 4191374.2, 96.6, 580.5, 0.0);
(565670.5, 4191374.2, 97.8, 580.5, 0.0); (565690.5, 4191374.2, 99.0, 580.5, 0.0);
(565710.5, 4191374.2, 100.1, 580.5, 0.0); (565730.5, 4191374.2, 101.2, 580.5, 0.0);
(565750.5, 4191374.2, 102.2, 580.5, 0.0); (565770.5, 4191374.2, 103.3, 580.5, 0.0);
(565790.5, 4191374.2, 104.5, 580.5, 0.0); (565810.5, 4191374.2, 105.7, 580.5, 0.0);
(565830.5, 4191374.2, 107.1, 580.5, 0.0); (565850.5, 4191374.2, 109.1, 580.5, 0.0);
(565870.5, 4191374.2, 111.3, 580.5, 0.0); (565890.5, 4191374.2, 113.2, 580.5, 0.0);
(565910.5, 4191374.2, 114.8, 580.5, 0.0); (565930.5, 4191374.2, 116.9, 580.5, 0.0);
(565950.5, 4191374.2, 118.8, 580.5, 0.0); (565970.5, 4191374.2, 120.3, 580.5, 0.0);
(565990.5, 4191374.2, 121.7, 580.5, 0.0); (566010.5, 4191374.2, 123.1, 580.5, 0.0);
(566030.5, 4191374.2, 124.4, 580.5, 0.0); (566050.5, 4191374.2, 126.1, 580.5, 0.0);
(566070.5, 4191374.2, 127.7, 580.5, 0.0); (566090.5, 4191374.2, 130.8, 580.5, 0.0);
(566110.5, 4191374.2, 135.1, 580.5, 0.0); (566130.5, 4191374.2, 139.6, 580.5, 0.0);
(566150.5, 4191374.2, 142.5, 580.5, 0.0); (566170.5, 4191374.2, 143.0, 580.5, 0.0);
(566190.5, 4191374.2, 144.9, 580.5, 0.0); (566210.5, 4191374.2, 148.4, 580.5, 0.0);
(566230.5, 4191374.2, 152.4, 580.5, 0.0); (566250.5, 4191374.2, 155.6, 580.5, 0.0);
(566270.5, 4191374.2, 158.8, 580.5, 0.0); (566290.5, 4191374.2, 162.3, 580.5, 0.0);
(566310.5, 4191374.2, 166.1, 580.5, 0.0); (566330.5, 4191374.2, 170.3, 580.5, 0.0);
(566350.5, 4191374.2, 175.1, 580.5, 0.0); (566370.5, 4191374.2, 179.7, 580.5, 0.0);
(566390.5, 4191374.2, 185.2, 580.5, 0.0); (566410.5, 4191374.2, 192.3, 580.5, 0.0);
(566430.5, 4191374.2, 201.2, 580.5, 0.0); (566450.5, 4191374.2, 210.9, 580.5, 0.0);
(566470.5, 4191374.2, 219.2, 580.5, 0.0); (566490.5, 4191374.2, 223.6, 580.5, 0.0);
(566510.5, 4191374.2, 226.7, 580.5, 0.0); (566530.5, 4191374.2, 230.3, 580.5, 0.0);
(566550.5, 4191374.2, 235.3, 580.5, 0.0); (566570.5, 4191374.2, 242.0, 580.5, 0.0);
(565570.5, 4191394.2, 92.1, 580.5, 0.0); (565590.5, 4191394.2, 93.2, 580.5, 0.0);
(565610.5, 4191394.2, 94.2, 580.5, 0.0); (565630.5, 4191394.2, 95.5, 580.5, 0.0);
(565650.5, 4191394.2, 96.8, 580.5, 0.0); (565670.5, 4191394.2, 98.3, 580.5, 0.0);
(565690.5, 4191394.2, 99.7, 580.5, 0.0); (565710.5, 4191394.2, 100.9, 580.5, 0.0);

(565730.5, 4191394.2, 101.9, 580.5, 0.0); (565750.5, 4191394.2,
103.0, 580.5, 0.0);
(565770.5, 4191394.2, 104.1, 580.5, 0.0); (565790.5, 4191394.2,
105.3, 580.5, 0.0);
(565810.5, 4191394.2, 106.6, 580.5, 0.0); (565830.5, 4191394.2,
108.0, 580.5, 0.0);
(565850.5, 4191394.2, 110.1, 580.5, 0.0); (565870.5, 4191394.2,
112.3, 580.5, 0.0);
(565890.5, 4191394.2, 114.3, 580.5, 0.0); (565910.5, 4191394.2,
116.1, 580.5, 0.0);
(565930.5, 4191394.2, 118.3, 580.5, 0.0); (565950.5, 4191394.2,
120.3, 580.5, 0.0);
(565970.5, 4191394.2, 122.1, 580.5, 0.0); (565990.5, 4191394.2,
123.9, 580.5, 0.0);
(566010.5, 4191394.2, 125.7, 580.5, 0.0); (566030.5, 4191394.2,
127.3, 580.5, 0.0);
(566050.5, 4191394.2, 129.2, 580.5, 0.0); (566070.5, 4191394.2,
131.6, 580.5, 0.0);
(566090.5, 4191394.2, 136.1, 580.5, 0.0); (566110.5, 4191394.2,
141.8, 580.5, 0.0);
(566130.5, 4191394.2, 146.9, 580.5, 0.0); (566150.5, 4191394.2,
149.4, 580.5, 0.0);
(566170.5, 4191394.2, 148.2, 580.5, 0.0); (566190.5, 4191394.2,
146.6, 580.5, 0.0);
(566210.5, 4191394.2, 148.1, 580.5, 0.0); (566230.5, 4191394.2,
152.0, 580.5, 0.0);
(566250.5, 4191394.2, 155.9, 580.5, 0.0); (566270.5, 4191394.2,
159.1, 580.5, 0.0);
(566290.5, 4191394.2, 162.3, 580.5, 0.0); (566310.5, 4191394.2,
165.6, 580.5, 0.0);
(566330.5, 4191394.2, 169.3, 580.5, 0.0); (566350.5, 4191394.2,
173.4, 580.5, 0.0);
(566370.5, 4191394.2, 177.4, 580.5, 0.0); (566390.5, 4191394.2,
182.0, 580.5, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(566410.5, 4191394.2, 187.2, 580.5, 0.0); (566430.5, 4191394.2,
194.5, 580.5, 0.0);
(566450.5, 4191394.2, 203.4, 580.5, 0.0); (566470.5, 4191394.2,
211.9, 580.5, 0.0);
(566490.5, 4191394.2, 217.1, 580.5, 0.0); (566510.5, 4191394.2,
221.1, 580.5, 0.0);
(566530.5, 4191394.2, 225.9, 580.5, 0.0); (566550.5, 4191394.2,
231.9, 580.5, 0.0);
(566570.5, 4191394.2, 238.8, 580.5, 0.0); (565570.5, 4191414.2,
92.5, 580.5, 0.0);
(565590.5, 4191414.2, 93.5, 580.5, 0.0); (565610.5, 4191414.2,
94.6, 580.5, 0.0);
(565630.5, 4191414.2, 95.9, 580.5, 0.0); (565650.5, 4191414.2,
97.3, 580.5, 0.0);
(565670.5, 4191414.2, 98.9, 580.5, 0.0); (565690.5, 4191414.2,

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100.5,     580.5,       0.0);
     ( 565710.5, 4191414.2,     101.7,     580.5,       0.0);         ( 565730.5, 4191414.2,
102.8,     580.5,       0.0);
     ( 565750.5, 4191414.2,     104.0,     580.5,       0.0);         ( 565770.5, 4191414.2,
105.0,     580.5,       0.0);
     ( 565790.5, 4191414.2,     106.1,     580.5,       0.0);         ( 565810.5, 4191414.2,
107.5,     580.5,       0.0);
     ( 565830.5, 4191414.2,     109.2,     580.5,       0.0);         ( 565850.5, 4191414.2,
111.1,     580.5,       0.0);
     ( 565870.5, 4191414.2,     113.3,     580.5,       0.0);         ( 565890.5, 4191414.2,
115.3,     580.5,       0.0);
     ( 565910.5, 4191414.2,     117.2,     580.5,       0.0);         ( 565930.5, 4191414.2,
119.4,     580.5,       0.0);
     ( 565950.5, 4191414.2,     121.8,     580.5,       0.0);         ( 565970.5, 4191414.2,
123.6,     580.5,       0.0);
     ( 565990.5, 4191414.2,     125.8,     580.5,       0.0);         ( 566010.5, 4191414.2,
128.2,     580.5,       0.0);
     ( 566030.5, 4191414.2,     130.6,     580.5,       0.0);         ( 566050.5, 4191414.2,
133.3,     580.5,       0.0);
     ( 566070.5, 4191414.2,     137.2,     580.5,       0.0);         ( 566090.5, 4191414.2,
142.5,     580.5,       0.0);
     ( 566110.5, 4191414.2,     148.0,     580.5,       0.0);         ( 566130.5, 4191414.2,
152.6,     580.5,       0.0);
     ( 566150.5, 4191414.2,     155.3,     580.5,       0.0);         ( 566170.5, 4191414.2,
155.1,     580.5,       0.0);
     ( 566190.5, 4191414.2,     153.2,     580.5,       0.0);         ( 566210.5, 4191414.2,
152.5,     580.5,       0.0);
     ( 566230.5, 4191414.2,     153.8,     580.5,       0.0);         ( 566250.5, 4191414.2,
156.5,     580.5,       0.0);
     ( 566270.5, 4191414.2,     159.7,     580.5,       0.0);         ( 566290.5, 4191414.2,
162.7,     580.5,       0.0);
     ( 566310.5, 4191414.2,     165.6,     580.5,       0.0);         ( 566330.5, 4191414.2,
169.0,     580.5,       0.0);
     ( 566350.5, 4191414.2,     173.2,     580.5,       0.0);         ( 566370.5, 4191414.2,
178.1,     580.5,       0.0);
     ( 566390.5, 4191414.2,     182.3,     580.5,       0.0);         ( 566410.5, 4191414.2,
186.8,     580.5,       0.0);
     ( 566430.5, 4191414.2,     192.3,     580.5,       0.0);         ( 566450.5, 4191414.2,
199.0,     580.5,       0.0);
     ( 566470.5, 4191414.2,     206.6,     580.5,       0.0);         ( 566490.5, 4191414.2,
212.4,     580.5,       0.0);
     ( 566510.5, 4191414.2,     217.2,     580.5,       0.0);         ( 566530.5, 4191414.2,
221.9,     580.5,       0.0);
     ( 566550.5, 4191414.2,     227.4,     580.5,       0.0);         ( 566570.5, 4191414.2,
233.7,     580.5,       0.0);
     ( 565570.5, 4191434.2,      92.9,     580.5,       0.0);         ( 565590.5, 4191434.2,
93.9,     580.5,       0.0);
     ( 565610.5, 4191434.2,      95.1,     580.5,       0.0);         ( 565630.5, 4191434.2,
96.5,     580.5,       0.0);
     ( 565650.5, 4191434.2,      98.0,     580.5,       0.0);         ( 565670.5, 4191434.2,
99.6,     580.5,       0.0);
     ( 565690.5, 4191434.2,     101.2,     580.5,       0.0);         ( 565710.5, 4191434.2,
102.5,     580.5,       0.0);
     ( 565730.5, 4191434.2,     103.6,     580.5,       0.0);         ( 565750.5, 4191434.2,
104.8,     580.5,       0.0);
     ( 565770.5, 4191434.2,     105.9,     580.5,       0.0);         ( 565790.5, 4191434.2,
107.0,     580.5,       0.0);
     ( 565810.5, 4191434.2,     108.4,     580.5,       0.0);         ( 565830.5, 4191434.2,
110.1,     580.5,       0.0);
     ( 565850.5, 4191434.2,     112.0,     580.5,       0.0);         ( 565870.5, 4191434.2,
114.3,     580.5,       0.0);
```

(565890.5, 4191434.2, 116.4, 580.5, 0.0); (565910.5, 4191434.2,
118.3, 580.5, 0.0);
(565930.5, 4191434.2, 120.6, 580.5, 0.0); (565950.5, 4191434.2,
123.1, 580.5, 0.0);
(565970.5, 4191434.2, 125.3, 580.5, 0.0); (565990.5, 4191434.2,
127.8, 580.5, 0.0);
(566010.5, 4191434.2, 130.9, 580.5, 0.0); (566030.5, 4191434.2,
134.3, 580.5, 0.0);
(566050.5, 4191434.2, 138.1, 580.5, 0.0); (566070.5, 4191434.2,
143.0, 580.5, 0.0);
(566090.5, 4191434.2, 148.3, 580.5, 0.0); (566110.5, 4191434.2,
153.4, 580.5, 0.0);
(566130.5, 4191434.2, 157.8, 580.5, 0.0); (566150.5, 4191434.2,
161.1, 580.5, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(566170.5, 4191434.2, 162.2, 580.5, 0.0); (566190.5, 4191434.2,
161.0, 580.5, 0.0);
(566210.5, 4191434.2, 159.3, 580.5, 0.0); (566230.5, 4191434.2,
158.6, 580.5, 0.0);
(566250.5, 4191434.2, 159.9, 580.5, 0.0); (566270.5, 4191434.2,
163.1, 580.5, 0.0);
(566290.5, 4191434.2, 165.9, 580.5, 0.0); (566310.5, 4191434.2,
168.3, 580.5, 0.0);
(566330.5, 4191434.2, 171.1, 580.5, 0.0); (566350.5, 4191434.2,
175.1, 580.5, 0.0);
(566370.5, 4191434.2, 180.7, 580.5, 0.0); (566390.5, 4191434.2,
184.7, 580.5, 0.0);
(566410.5, 4191434.2, 189.0, 580.5, 0.0); (566430.5, 4191434.2,
193.1, 580.5, 0.0);
(566450.5, 4191434.2, 197.9, 580.5, 0.0); (566470.5, 4191434.2,
203.8, 580.5, 0.0);
(566490.5, 4191434.2, 209.9, 580.5, 0.0); (566510.5, 4191434.2,
215.3, 580.5, 0.0);
(566530.5, 4191434.2, 219.4, 580.5, 0.0); (566550.5, 4191434.2,
223.7, 580.5, 0.0);
(566570.5, 4191434.2, 228.9, 580.5, 0.0); (565570.5, 4191454.2,
93.3, 580.5, 0.0);
(565590.5, 4191454.2, 94.3, 580.5, 0.0); (565610.5, 4191454.2,
95.7, 580.5, 0.0);
(565630.5, 4191454.2, 97.1, 580.5, 0.0); (565650.5, 4191454.2,
98.7, 580.5, 0.0);
(565670.5, 4191454.2, 100.3, 580.5, 0.0); (565690.5, 4191454.2,
101.9, 580.5, 0.0);
(565710.5, 4191454.2, 103.2, 580.5, 0.0); (565730.5, 4191454.2,
104.3, 580.5, 0.0);
(565750.5, 4191454.2, 105.6, 580.5, 0.0); (565770.5, 4191454.2,
106.7, 580.5, 0.0);
(565790.5, 4191454.2, 107.8, 580.5, 0.0); (565810.5, 4191454.2,
109.3, 580.5, 0.0);
(565830.5, 4191454.2, 110.9, 580.5, 0.0); (565850.5, 4191454.2,

```
112.9,     580.5,       0.0);
     ( 565870.5, 4191454.2,     115.3,     580.5,       0.0);         ( 565890.5, 4191454.2,
117.5,     580.5,       0.0);
     ( 565910.5, 4191454.2,     119.4,     580.5,       0.0);         ( 565930.5, 4191454.2,
121.9,     580.5,       0.0);
     ( 565950.5, 4191454.2,     124.5,     580.5,       0.0);         ( 565970.5, 4191454.2,
126.9,     580.5,       0.0);
     ( 565990.5, 4191454.2,     130.0,     580.5,       0.0);         ( 566010.5, 4191454.2,
134.0,     580.5,       0.0);
     ( 566030.5, 4191454.2,     138.6,     580.5,       0.0);         ( 566050.5, 4191454.2,
143.7,     580.5,       0.0);
     ( 566070.5, 4191454.2,     148.8,     580.5,       0.0);         ( 566090.5, 4191454.2,
153.3,     580.5,       0.0);
     ( 566110.5, 4191454.2,     157.9,     580.5,       0.0);         ( 566130.5, 4191454.2,
162.6,     580.5,       0.0);
     ( 566150.5, 4191454.2,     166.7,     580.5,       0.0);         ( 566170.5, 4191454.2,
169.3,     580.5,       0.0);
     ( 566190.5, 4191454.2,     170.0,     580.5,       0.0);         ( 566210.5, 4191454.2,
169.7,     580.5,       0.0);
     ( 566230.5, 4191454.2,     168.9,     580.5,       0.0);         ( 566250.5, 4191454.2,
168.6,     580.5,       0.0);
     ( 566270.5, 4191454.2,     171.9,     580.5,       0.0);         ( 566290.5, 4191454.2,
174.8,     580.5,       0.0);
     ( 566310.5, 4191454.2,     176.5,     580.5,       0.0);         ( 566330.5, 4191454.2,
178.2,     580.5,       0.0);
     ( 566350.5, 4191454.2,     181.2,     580.5,       0.0);         ( 566370.5, 4191454.2,
186.6,     580.5,       0.0);
     ( 566390.5, 4191454.2,     190.6,     580.5,       0.0);         ( 566410.5, 4191454.2,
195.2,     580.5,       0.0);
     ( 566430.5, 4191454.2,     199.6,     580.5,       0.0);         ( 566450.5, 4191454.2,
203.6,     580.5,       0.0);
     ( 566470.5, 4191454.2,     207.6,     580.5,       0.0);         ( 566490.5, 4191454.2,
212.6,     580.5,       0.0);
     ( 566510.5, 4191454.2,     218.0,     580.5,       0.0);         ( 566530.5, 4191454.2,
221.4,     580.5,       0.0);
     ( 566550.5, 4191454.2,     224.2,     580.5,       0.0);         ( 566570.5, 4191454.2,
227.2,     580.5,       0.0);
     ( 565570.5, 4191474.2,      93.8,     580.5,       0.0);         ( 565590.5, 4191474.2,
94.8,     580.5,       0.0);
     ( 565610.5, 4191474.2,      96.4,     580.5,       0.0);         ( 565630.5, 4191474.2,
97.8,     580.5,       0.0);
     ( 565650.5, 4191474.2,      99.4,     580.5,       0.0);         ( 565670.5, 4191474.2,
100.9,     580.5,       0.0);
     ( 565690.5, 4191474.2,     102.3,     580.5,       0.0);         ( 565710.5, 4191474.2,
103.6,     580.5,       0.0);
     ( 565730.5, 4191474.2,     105.0,     580.5,       0.0);         ( 565750.5, 4191474.2,
106.3,     580.5,       0.0);
     ( 565770.5, 4191474.2,     107.5,     580.5,       0.0);         ( 565790.5, 4191474.2,
108.9,     580.5,       0.0);
     ( 565810.5, 4191474.2,     110.5,     580.5,       0.0);         ( 565830.5, 4191474.2,
111.9,     580.5,       0.0);
     ( 565850.5, 4191474.2,     114.2,     580.5,       0.0);         ( 565870.5, 4191474.2,
116.6,     580.5,       0.0);
     ( 565890.5, 4191474.2,     118.5,     580.5,       0.0);         ( 565910.5, 4191474.2,
120.2,     580.5,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(565930.5, 4191474.2, 122.8, 580.5, 0.0); (565950.5, 4191474.2, 125.8, 580.5, 0.0);
(565970.5, 4191474.2, 128.7, 580.5, 0.0); (565990.5, 4191474.2, 132.6, 580.5, 0.0);
(566010.5, 4191474.2, 137.3, 580.5, 0.0); (566030.5, 4191474.2, 142.1, 580.5, 0.0);
(566050.5, 4191474.2, 147.1, 580.5, 0.0); (566070.5, 4191474.2, 152.0, 580.5, 0.0);
(566090.5, 4191474.2, 156.9, 580.5, 0.0); (566110.5, 4191474.2, 161.9, 580.5, 0.0);
(566130.5, 4191474.2, 166.7, 580.5, 0.0); (566150.5, 4191474.2, 171.1, 580.5, 0.0);
(566170.5, 4191474.2, 174.6, 580.5, 0.0); (566190.5, 4191474.2, 176.6, 580.5, 0.0);
(566210.5, 4191474.2, 177.7, 580.5, 0.0); (566230.5, 4191474.2, 177.8, 580.5, 0.0);
(566250.5, 4191474.2, 177.7, 580.5, 0.0); (566270.5, 4191474.2, 181.1, 580.5, 0.0);
(566290.5, 4191474.2, 184.9, 580.5, 0.0); (566310.5, 4191474.2, 186.6, 580.5, 0.0);
(566330.5, 4191474.2, 187.0, 580.5, 0.0); (566350.5, 4191474.2, 187.9, 580.5, 0.0);
(566370.5, 4191474.2, 191.4, 580.5, 0.0); (566390.5, 4191474.2, 196.7, 580.5, 0.0);
(566410.5, 4191474.2, 202.8, 580.5, 0.0); (566430.5, 4191474.2, 208.1, 580.5, 0.0);
(566450.5, 4191474.2, 212.0, 580.5, 0.0); (566470.5, 4191474.2, 215.1, 580.5, 0.0);
(566490.5, 4191474.2, 219.0, 580.5, 0.0); (566510.5, 4191474.2, 224.2, 580.5, 0.0);
(566530.5, 4191474.2, 227.4, 580.5, 0.0); (566550.5, 4191474.2, 229.2, 580.5, 0.0);
(566570.5, 4191474.2, 230.6, 580.5, 0.0); (565570.5, 4191494.2, 94.6, 580.5, 0.0);
(565590.5, 4191494.2, 95.7, 580.5, 0.0); (565610.5, 4191494.2, 97.2, 580.5, 0.0);
(565630.5, 4191494.2, 98.5, 580.5, 0.0); (565650.5, 4191494.2, 100.0, 580.5, 0.0);
(565670.5, 4191494.2, 101.5, 580.5, 0.0); (565690.5, 4191494.2, 102.8, 580.5, 0.0);
(565710.5, 4191494.2, 104.2, 580.5, 0.0); (565730.5, 4191494.2, 105.7, 580.5, 0.0);
(565750.5, 4191494.2, 107.0, 580.5, 0.0); (565770.5, 4191494.2, 108.4, 580.5, 0.0);
(565790.5, 4191494.2, 109.9, 580.5, 0.0); (565810.5, 4191494.2, 111.7, 580.5, 0.0);
(565830.5, 4191494.2, 113.0, 580.5, 0.0); (565850.5, 4191494.2, 115.5, 580.5, 0.0);
(565870.5, 4191494.2, 117.7, 580.5, 0.0); (565890.5, 4191494.2, 119.5, 580.5, 0.0);
(565910.5, 4191494.2, 121.2, 580.5, 0.0); (565930.5, 4191494.2, 124.0, 580.5, 0.0);
(565950.5, 4191494.2, 127.3, 580.5, 0.0); (565970.5, 4191494.2, 130.6, 580.5, 0.0);
(565990.5, 4191494.2, 135.2, 580.5, 0.0); (566010.5, 4191494.2,

140.2,   580.5,   0.0);
     (566030.5, 4191494.2,   144.8,   580.5,   0.0);   (566050.5, 4191494.2,
149.7,   580.5,   0.0);
     (566070.5, 4191494.2,   154.8,   580.5,   0.0);   (566090.5, 4191494.2,
160.3,   580.5,   0.0);
     (566110.5, 4191494.2,   165.8,   580.5,   0.0);   (566130.5, 4191494.2,
171.0,   580.5,   0.0);
     (566150.5, 4191494.2,   175.6,   580.5,   0.0);   (566170.5, 4191494.2,
179.6,   580.5,   0.0);
     (566190.5, 4191494.2,   182.5,   580.5,   0.0);   (566210.5, 4191494.2,
185.1,   580.5,   0.0);
     (566230.5, 4191494.2,   186.6,   580.5,   0.0);   (566250.5, 4191494.2,
187.2,   580.5,   0.0);
     (566270.5, 4191494.2,   190.5,   580.5,   0.0);   (566290.5, 4191494.2,
195.3,   580.5,   0.0);
     (566310.5, 4191494.2,   197.4,   580.5,   0.0);   (566330.5, 4191494.2,
197.1,   580.5,   0.0);
     (566350.5, 4191494.2,   196.1,   580.5,   0.0);   (566370.5, 4191494.2,
197.0,   580.5,   0.0);
     (566390.5, 4191494.2,   203.1,   580.5,   0.0);   (566410.5, 4191494.2,
210.5,   580.5,   0.0);
     (566430.5, 4191494.2,   216.9,   580.5,   0.0);   (566450.5, 4191494.2,
221.3,   580.5,   0.0);
     (566470.5, 4191494.2,   224.2,   580.5,   0.0);   (566490.5, 4191494.2,
227.3,   580.5,   0.0);
     (566510.5, 4191494.2,   232.3,   580.5,   0.0);   (566530.5, 4191494.2,
235.5,   580.5,   0.0);
     (566550.5, 4191494.2,   236.8,   580.5,   0.0);   (566570.5, 4191494.2,
237.1,   580.5,   0.0);
     (565570.5, 4191514.2,   95.5,   580.5,   0.0);   (565590.5, 4191514.2,
96.8,   580.5,   0.0);
     (565610.5, 4191514.2,   98.2,   580.5,   0.0);   (565630.5, 4191514.2,
99.3,   580.5,   0.0);
     (565650.5, 4191514.2,   100.7,   580.5,   0.0);   (565670.5, 4191514.2,
102.1,   580.5,   0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

     (565690.5, 4191514.2,   103.5,   580.5,   0.0);   (565710.5, 4191514.2,
105.0,   580.5,   0.0);
     (565730.5, 4191514.2,   106.5,   580.5,   0.0);   (565750.5, 4191514.2,
107.9,   580.5,   0.0);
     (565770.5, 4191514.2,   109.2,   580.5,   0.0);   (565790.5, 4191514.2,
110.8,   580.5,   0.0);
     (565810.5, 4191514.2,   112.7,   580.5,   0.0);   (565830.5, 4191514.2,
114.1,   580.5,   0.0);
     (565850.5, 4191514.2,   116.6,   580.5,   0.0);   (565870.5, 4191514.2,
118.7,   580.5,   0.0);
     (565890.5, 4191514.2,   120.5,   580.5,   0.0);   (565910.5, 4191514.2,
122.7,   580.5,   0.0);
     (565930.5, 4191514.2,   125.9,   580.5,   0.0);   (565950.5, 4191514.2,
129.0,   580.5,   0.0);

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     ( 565970.5, 4191514.2,     132.8,     580.5,       0.0);         ( 565990.5, 4191514.2,
137.5,     580.5,       0.0);
     ( 566010.5, 4191514.2,     142.1,     580.5,       0.0);         ( 566030.5, 4191514.2,
146.3,     580.5,       0.0);
     ( 566050.5, 4191514.2,     151.2,     580.5,       0.0);         ( 566070.5, 4191514.2,
157.2,     580.5,       0.0);
     ( 566090.5, 4191514.2,     163.6,     580.5,       0.0);         ( 566110.5, 4191514.2,
170.0,     580.5,       0.0);
     ( 566130.5, 4191514.2,     175.9,     580.5,       0.0);         ( 566150.5, 4191514.2,
180.8,     580.5,       0.0);
     ( 566170.5, 4191514.2,     184.6,     580.5,       0.0);         ( 566190.5, 4191514.2,
188.3,     580.5,       0.0);
     ( 566210.5, 4191514.2,     192.4,     580.5,       0.0);         ( 566230.5, 4191514.2,
195.8,     580.5,       0.0);
     ( 566250.5, 4191514.2,     197.8,     580.5,       0.0);         ( 566270.5, 4191514.2,
200.3,     580.5,       0.0);
     ( 566290.5, 4191514.2,     205.8,     580.5,       0.0);         ( 566310.5, 4191514.2,
209.0,     580.5,       0.0);
     ( 566330.5, 4191514.2,     209.5,     580.5,       0.0);         ( 566350.5, 4191514.2,
208.3,     580.5,       0.0);
     ( 566370.5, 4191514.2,     207.6,     580.5,       0.0);         ( 566390.5, 4191514.2,
210.6,     580.5,       0.0);
     ( 566410.5, 4191514.2,     216.5,     580.5,       0.0);         ( 566430.5, 4191514.2,
223.6,     580.5,       0.0);
     ( 566450.5, 4191514.2,     229.9,     580.5,       0.0);         ( 566470.5, 4191514.2,
234.3,     580.5,       0.0);
     ( 566490.5, 4191514.2,     237.2,     580.5,       0.0);         ( 566510.5, 4191514.2,
241.5,     580.5,       0.0);
     ( 566530.5, 4191514.2,     245.3,     580.5,       0.0);         ( 566550.5, 4191514.2,
247.2,     580.5,       0.0);
     ( 566570.5, 4191514.2,     247.4,     580.5,       0.0);         ( 565570.5, 4191534.2,
96.5,     580.5,       0.0);
     ( 565590.5, 4191534.2,      97.4,     580.5,       0.0);         ( 565610.5, 4191534.2,
98.5,     580.5,       0.0);
     ( 565630.5, 4191534.2,      99.7,     580.5,       0.0);         ( 565650.5, 4191534.2,
101.0,     580.5,       0.0);
     ( 565670.5, 4191534.2,     102.4,     580.5,       0.0);         ( 565690.5, 4191534.2,
103.9,     580.5,       0.0);
     ( 565710.5, 4191534.2,     105.6,     580.5,       0.0);         ( 565730.5, 4191534.2,
107.2,     580.5,       0.0);
     ( 565750.5, 4191534.2,     108.5,     580.5,       0.0);         ( 565770.5, 4191534.2,
109.9,     580.5,       0.0);
     ( 565790.5, 4191534.2,     111.5,     580.5,       0.0);         ( 565810.5, 4191534.2,
113.3,     580.5,       0.0);
     ( 565830.5, 4191534.2,     115.0,     580.5,       0.0);         ( 565850.5, 4191534.2,
117.4,     580.5,       0.0);
     ( 565870.5, 4191534.2,     119.5,     580.5,       0.0);         ( 565890.5, 4191534.2,
121.5,     580.5,       0.0);
     ( 565910.5, 4191534.2,     124.0,     580.5,       0.0);         ( 565930.5, 4191534.2,
127.5,     580.5,       0.0);
     ( 565950.5, 4191534.2,     130.5,     580.5,       0.0);         ( 565970.5, 4191534.2,
134.0,     580.5,       0.0);
     ( 565990.5, 4191534.2,     138.4,     580.5,       0.0);         ( 566010.5, 4191534.2,
143.2,     580.5,       0.0);
     ( 566030.5, 4191534.2,     148.3,     580.5,       0.0);         ( 566050.5, 4191534.2,
153.9,     580.5,       0.0);
     ( 566070.5, 4191534.2,     160.2,     580.5,       0.0);         ( 566090.5, 4191534.2,
167.3,     580.5,       0.0);
     ( 566110.5, 4191534.2,     174.4,     580.5,       0.0);         ( 566130.5, 4191534.2,
180.7,     580.5,       0.0);
     ( 566150.5, 4191534.2,     185.7,     580.5,       0.0);         ( 566170.5, 4191534.2,
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189.6,   580.5,   0.0);
     (566190.5, 4191534.2,   193.9,   580.5,   0.0);   (566210.5, 4191534.2,
198.8,   580.5,   0.0);
     (566230.5, 4191534.2,   203.3,   580.5,   0.0);   (566250.5, 4191534.2,
206.6,   580.5,   0.0);
     (566270.5, 4191534.2,   209.6,   580.5,   0.0);   (566290.5, 4191534.2,
214.6,   580.5,   0.0);
     (566310.5, 4191534.2,   218.1,   580.5,   0.0);   (566330.5, 4191534.2,
219.6,   580.5,   0.0);
     (566350.5, 4191534.2,   219.4,   580.5,   0.0);   (566370.5, 4191534.2,
218.7,   580.5,   0.0);
     (566390.5, 4191534.2,   220.2,   580.5,   0.0);   (566410.5, 4191534.2,
224.2,   580.5,   0.0);
     (566430.5, 4191534.2,   230.3,   580.5,   0.0);   (566450.5, 4191534.2,
237.0,   580.5,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

     (566470.5, 4191534.2,   242.6,   580.5,   0.0);   (566490.5, 4191534.2,
246.7,   580.5,   0.0);
     (566510.5, 4191534.2,   251.0,   580.5,   0.0);   (566530.5, 4191534.2,
255.4,   580.5,   0.0);
     (566550.5, 4191534.2,   257.8,   580.5,   0.0);   (566570.5, 4191534.2,
258.0,   580.5,   0.0);
     (565570.5, 4191554.2,   97.2,   580.5,   0.0);   (565590.5, 4191554.2,
98.0,   580.5,   0.0);
     (565610.5, 4191554.2,   98.8,   580.5,   0.0);   (565630.5, 4191554.2,
100.0,   580.5,   0.0);
     (565650.5, 4191554.2,   101.2,   580.5,   0.0);   (565670.5, 4191554.2,
102.6,   580.5,   0.0);
     (565690.5, 4191554.2,   104.2,   580.5,   0.0);   (565710.5, 4191554.2,
106.0,   580.5,   0.0);
     (565730.5, 4191554.2,   107.8,   580.5,   0.0);   (565750.5, 4191554.2,
109.2,   580.5,   0.0);
     (565770.5, 4191554.2,   110.6,   580.5,   0.0);   (565790.5, 4191554.2,
112.1,   580.5,   0.0);
     (565810.5, 4191554.2,   113.9,   580.5,   0.0);   (565830.5, 4191554.2,
115.7,   580.5,   0.0);
     (565850.5, 4191554.2,   118.0,   580.5,   0.0);   (565870.5, 4191554.2,
120.2,   580.5,   0.0);
     (565890.5, 4191554.2,   122.5,   580.5,   0.0);   (565910.5, 4191554.2,
125.4,   580.5,   0.0);
     (565930.5, 4191554.2,   129.0,   580.5,   0.0);   (565950.5, 4191554.2,
131.8,   580.5,   0.0);
     (565970.5, 4191554.2,   134.8,   580.5,   0.0);   (565990.5, 4191554.2,
138.9,   580.5,   0.0);
     (566010.5, 4191554.2,   144.3,   580.5,   0.0);   (566030.5, 4191554.2,
150.6,   580.5,   0.0);
     (566050.5, 4191554.2,   157.0,   580.5,   0.0);   (566070.5, 4191554.2,
163.1,   580.5,   0.0);
     (566090.5, 4191554.2,   170.6,   580.5,   0.0);   (566110.5, 4191554.2,
178.2,   580.5,   0.0);

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     ( 566130.5, 4191554.2,     184.8,     580.5,       0.0);         ( 566150.5, 4191554.2,
189.9,     580.5,       0.0);
     ( 566170.5, 4191554.2,     194.0,     580.5,       0.0);         ( 566190.5, 4191554.2,
199.0,     580.5,       0.0);
     ( 566210.5, 4191554.2,     204.5,     580.5,       0.0);         ( 566230.5, 4191554.2,
209.6,     580.5,       0.0);
     ( 566250.5, 4191554.2,     213.9,     580.5,       0.0);         ( 566270.5, 4191554.2,
217.9,     580.5,       0.0);
     ( 566290.5, 4191554.2,     222.0,     580.5,       0.0);         ( 566310.5, 4191554.2,
225.4,     580.5,       0.0);
     ( 566330.5, 4191554.2,     227.8,     580.5,       0.0);         ( 566350.5, 4191554.2,
229.1,     580.5,       0.0);
     ( 566370.5, 4191554.2,     229.6,     580.5,       0.0);         ( 566390.5, 4191554.2,
230.7,     580.5,       0.0);
     ( 566410.5, 4191554.2,     232.8,     580.5,       0.0);         ( 566430.5, 4191554.2,
237.2,     580.5,       0.0);
     ( 566450.5, 4191554.2,     243.2,     580.5,       0.0);         ( 566470.5, 4191554.2,
249.9,     580.5,       0.0);
     ( 566490.5, 4191554.2,     256.0,     580.5,       0.0);         ( 566510.5, 4191554.2,
260.6,     580.5,       0.0);
     ( 566530.5, 4191554.2,     265.5,     580.5,       0.0);         ( 566550.5, 4191554.2,
268.4,     580.5,       0.0);
     ( 566570.5, 4191554.2,     268.7,     580.5,       0.0);         ( 565570.5, 4191574.2,
97.8,     580.5,       0.0);
     ( 565590.5, 4191574.2,      98.5,     580.5,       0.0);         ( 565610.5, 4191574.2,
99.2,     580.5,       0.0);
     ( 565630.5, 4191574.2,     100.2,     580.5,       0.0);         ( 565650.5, 4191574.2,
101.4,     580.5,       0.0);
     ( 565670.5, 4191574.2,     102.8,     580.5,       0.0);         ( 565690.5, 4191574.2,
104.3,     580.5,       0.0);
     ( 565710.5, 4191574.2,     106.1,     580.5,       0.0);         ( 565730.5, 4191574.2,
108.2,     580.5,       0.0);
     ( 565750.5, 4191574.2,     109.8,     580.5,       0.0);         ( 565770.5, 4191574.2,
111.3,     580.5,       0.0);
     ( 565790.5, 4191574.2,     112.9,     580.5,       0.0);         ( 565810.5, 4191574.2,
114.6,     580.5,       0.0);
     ( 565830.5, 4191574.2,     116.0,     580.5,       0.0);         ( 565850.5, 4191574.2,
118.3,     580.5,       0.0);
     ( 565870.5, 4191574.2,     120.8,     580.5,       0.0);         ( 565890.5, 4191574.2,
123.6,     580.5,       0.0);
     ( 565910.5, 4191574.2,     126.7,     580.5,       0.0);         ( 565930.5, 4191574.2,
130.0,     580.5,       0.0);
     ( 565950.5, 4191574.2,     132.5,     580.5,       0.0);         ( 565970.5, 4191574.2,
134.8,     580.5,       0.0);
     ( 565990.5, 4191574.2,     139.3,     580.5,       0.0);         ( 566010.5, 4191574.2,
145.8,     580.5,       0.0);
     ( 566030.5, 4191574.2,     153.1,     580.5,       0.0);         ( 566050.5, 4191574.2,
160.2,     580.5,       0.0);
     ( 566070.5, 4191574.2,     165.7,     580.5,       0.0);         ( 566090.5, 4191574.2,
172.7,     580.5,       0.0);
     ( 566110.5, 4191574.2,     179.6,     580.5,       0.0);         ( 566130.5, 4191574.2,
186.0,     580.5,       0.0);
     ( 566150.5, 4191574.2,     191.6,     580.5,       0.0);         ( 566170.5, 4191574.2,
196.5,     580.5,       0.0);
     ( 566190.5, 4191574.2,     202.2,     580.5,       0.0);         ( 566210.5, 4191574.2,
208.0,     580.5,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(566230.5, 4191574.2, 213.2, 580.5, 0.0); (566250.5, 4191574.2,
217.6, 580.5, 0.0);
(566270.5, 4191574.2, 221.7, 580.5, 0.0); (566290.5, 4191574.2,
225.1, 580.5, 0.0);
(566310.5, 4191574.2, 228.2, 580.5, 0.0); (566330.5, 4191574.2,
231.1, 580.5, 0.0);
(566350.5, 4191574.2, 233.7, 580.5, 0.0); (566370.5, 4191574.2,
236.1, 580.5, 0.0);
(566390.5, 4191574.2, 238.7, 580.5, 0.0); (566410.5, 4191574.2,
241.6, 580.5, 0.0);
(566430.5, 4191574.2, 245.7, 580.5, 0.0); (566450.5, 4191574.2,
250.9, 580.5, 0.0);
(566470.5, 4191574.2, 256.8, 580.5, 0.0); (566490.5, 4191574.2,
262.7, 580.5, 0.0);
(566510.5, 4191574.2, 268.0, 580.5, 0.0); (566530.5, 4191574.2,
273.1, 580.5, 0.0);
(566550.5, 4191574.2, 276.6, 580.5, 0.0); (566570.5, 4191574.2,
278.4, 580.5, 0.0);
(565570.5, 4191594.2,   98.4, 580.5, 0.0); (565590.5, 4191594.2,
99.2, 580.5, 0.0);
(565610.5, 4191594.2, 100.1, 580.5, 0.0); (565630.5, 4191594.2,
100.9, 580.5, 0.0);
(565650.5, 4191594.2, 101.9, 580.5, 0.0); (565670.5, 4191594.2,
103.0, 580.5, 0.0);
(565690.5, 4191594.2, 104.4, 580.5, 0.0); (565710.5, 4191594.2,
106.0, 580.5, 0.0);
(565730.5, 4191594.2, 108.3, 580.5, 0.0); (565750.5, 4191594.2,
110.1, 580.5, 0.0);
(565770.5, 4191594.2, 111.8, 580.5, 0.0); (565790.5, 4191594.2,
113.5, 580.5, 0.0);
(565810.5, 4191594.2, 115.0, 580.5, 0.0); (565830.5, 4191594.2,
116.5, 580.5, 0.0);
(565850.5, 4191594.2, 118.8, 580.5, 0.0); (565870.5, 4191594.2,
121.9, 580.5, 0.0);
(565890.5, 4191594.2, 125.3, 580.5, 0.0); (565910.5, 4191594.2,
128.5, 580.5, 0.0);
(565930.5, 4191594.2, 131.0, 580.5, 0.0); (565950.5, 4191594.2,
132.8, 580.5, 0.0);
(565970.5, 4191594.2, 135.2, 580.5, 0.0); (565990.5, 4191594.2,
140.2, 580.5, 0.0);
(566010.5, 4191594.2, 147.1, 580.5, 0.0); (566030.5, 4191594.2,
155.0, 580.5, 0.0);
(566050.5, 4191594.2, 162.4, 580.5, 0.0); (566070.5, 4191594.2,
167.2, 580.5, 0.0);
(566090.5, 4191594.2, 173.6, 580.5, 0.0); (566110.5, 4191594.2,
180.2, 580.5, 0.0);
(566130.5, 4191594.2, 186.7, 580.5, 0.0); (566150.5, 4191594.2,
192.9, 580.5, 0.0);
(566170.5, 4191594.2, 198.4, 580.5, 0.0); (566190.5, 4191594.2,
204.4, 580.5, 0.0);
(566210.5, 4191594.2, 210.1, 580.5, 0.0); (566230.5, 4191594.2,
215.2, 580.5, 0.0);
(566250.5, 4191594.2, 219.6, 580.5, 0.0); (566270.5, 4191594.2,
223.0, 580.5, 0.0);

```
     ( 566290.5, 4191594.2,     225.5,     580.5,       0.0);         ( 566310.5, 4191594.2,
228.3,     580.5,       0.0);
     ( 566330.5, 4191594.2,     231.6,     580.5,       0.0);         ( 566350.5, 4191594.2,
235.4,     580.5,       0.0);
     ( 566370.5, 4191594.2,     239.2,     580.5,       0.0);         ( 566390.5, 4191594.2,
243.0,     580.5,       0.0);
     ( 566410.5, 4191594.2,     246.9,     580.5,       0.0);         ( 566430.5, 4191594.2,
251.3,     580.5,       0.0);
     ( 566450.5, 4191594.2,     256.2,     580.5,       0.0);         ( 566470.5, 4191594.2,
261.6,     580.5,       0.0);
     ( 566490.5, 4191594.2,     267.2,     580.5,       0.0);         ( 566510.5, 4191594.2,
272.7,     580.5,       0.0);
     ( 566530.5, 4191594.2,     277.9,     580.5,       0.0);         ( 566550.5, 4191594.2,
282.3,     580.5,       0.0);
     ( 566570.5, 4191594.2,     285.4,     580.5,       0.0);         ( 565570.5, 4191614.2,
98.9,     580.5,       0.0);
     ( 565590.5, 4191614.2,      99.8,     580.5,       0.0);         ( 565610.5, 4191614.2,
100.9,     580.5,       0.0);
     ( 565630.5, 4191614.2,     101.7,     580.5,       0.0);         ( 565650.5, 4191614.2,
102.5,     580.5,       0.0);
     ( 565670.5, 4191614.2,     103.4,     580.5,       0.0);         ( 565690.5, 4191614.2,
104.6,     580.5,       0.0);
     ( 565710.5, 4191614.2,     106.2,     580.5,       0.0);         ( 565730.5, 4191614.2,
108.5,     580.5,       0.0);
     ( 565750.5, 4191614.2,     110.5,     580.5,       0.0);         ( 565770.5, 4191614.2,
112.4,     580.5,       0.0);
     ( 565790.5, 4191614.2,     114.0,     580.5,       0.0);         ( 565810.5, 4191614.2,
115.4,     580.5,       0.0);
     ( 565830.5, 4191614.2,     117.1,     580.5,       0.0);         ( 565850.5, 4191614.2,
119.9,     580.5,       0.0);
     ( 565870.5, 4191614.2,     123.5,     580.5,       0.0);         ( 565890.5, 4191614.2,
127.1,     580.5,       0.0);
     ( 565910.5, 4191614.2,     130.1,     580.5,       0.0);         ( 565930.5, 4191614.2,
131.8,     580.5,       0.0);
     ( 565950.5, 4191614.2,     133.0,     580.5,       0.0);         ( 565970.5, 4191614.2,
135.9,     580.5,       0.0);
↟ *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

     ( 565990.5, 4191614.2,     141.2,     580.5,       0.0);         ( 566010.5, 4191614.2,
148.4,     580.5,       0.0);
     ( 566030.5, 4191614.2,     156.3,     580.5,       0.0);         ( 566050.5, 4191614.2,
163.7,     580.5,       0.0);
     ( 566070.5, 4191614.2,     167.9,     580.5,       0.0);         ( 566090.5, 4191614.2,
173.6,     580.5,       0.0);
     ( 566110.5, 4191614.2,     180.1,     580.5,       0.0);         ( 566130.5, 4191614.2,
186.9,     580.5,       0.0);
     ( 566150.5, 4191614.2,     193.8,     580.5,       0.0);         ( 566170.5, 4191614.2,
199.8,     580.5,       0.0);
     ( 566190.5, 4191614.2,     205.7,     580.5,       0.0);         ( 566210.5, 4191614.2,
211.1,     580.5,       0.0);
     ( 566230.5, 4191614.2,     216.1,     580.5,       0.0);         ( 566250.5, 4191614.2,
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220.1,     580.5,       0.0);
     ( 566270.5, 4191614.2,     222.6,     580.5,       0.0);         ( 566290.5, 4191614.2,
223.9,     580.5,       0.0);
     ( 566310.5, 4191614.2,     226.3,     580.5,       0.0);         ( 566330.5, 4191614.2,
230.1,     580.5,       0.0);
     ( 566350.5, 4191614.2,     234.8,     580.5,       0.0);         ( 566370.5, 4191614.2,
239.6,     580.5,       0.0);
     ( 566390.5, 4191614.2,     244.4,     580.5,       0.0);         ( 566410.5, 4191614.2,
249.2,     580.5,       0.0);
     ( 566430.5, 4191614.2,     254.4,     580.5,       0.0);         ( 566450.5, 4191614.2,
259.5,     580.5,       0.0);
     ( 566470.5, 4191614.2,     264.5,     580.5,       0.0);         ( 566490.5, 4191614.2,
269.6,     580.5,       0.0);
     ( 566510.5, 4191614.2,     274.9,     580.5,       0.0);         ( 566530.5, 4191614.2,
280.2,     580.5,       0.0);
     ( 566550.5, 4191614.2,     285.4,     580.5,       0.0);         ( 566570.5, 4191614.2,
289.9,     580.5,       0.0);
     ( 565570.5, 4191634.2,      99.3,     580.5,       0.0);         ( 565590.5, 4191634.2,
100.2,     580.5,       0.0);
     ( 565610.5, 4191634.2,     101.5,     580.5,       0.0);         ( 565630.5, 4191634.2,
102.5,     580.5,       0.0);
     ( 565650.5, 4191634.2,     103.2,     580.5,       0.0);         ( 565670.5, 4191634.2,
104.1,     580.5,       0.0);
     ( 565690.5, 4191634.2,     105.4,     580.5,       0.0);         ( 565710.5, 4191634.2,
107.2,     580.5,       0.0);
     ( 565730.5, 4191634.2,     109.2,     580.5,       0.0);         ( 565750.5, 4191634.2,
111.1,     580.5,       0.0);
     ( 565770.5, 4191634.2,     112.9,     580.5,       0.0);         ( 565790.5, 4191634.2,
114.5,     580.5,       0.0);
     ( 565810.5, 4191634.2,     116.1,     580.5,       0.0);         ( 565830.5, 4191634.2,
118.5,     580.5,       0.0);
     ( 565850.5, 4191634.2,     122.4,     580.5,       0.0);         ( 565870.5, 4191634.2,
126.0,     580.5,       0.0);
     ( 565890.5, 4191634.2,     129.0,     580.5,       0.0);         ( 565910.5, 4191634.2,
130.9,     580.5,       0.0);
     ( 565930.5, 4191634.2,     131.9,     580.5,       0.0);         ( 565950.5, 4191634.2,
133.8,     580.5,       0.0);
     ( 565970.5, 4191634.2,     137.4,     580.5,       0.0);         ( 565990.5, 4191634.2,
142.5,     580.5,       0.0);
     ( 566010.5, 4191634.2,     149.0,     580.5,       0.0);         ( 566030.5, 4191634.2,
156.2,     580.5,       0.0);
     ( 566050.5, 4191634.2,     162.3,     580.5,       0.0);         ( 566070.5, 4191634.2,
166.4,     580.5,       0.0);
     ( 566090.5, 4191634.2,     171.4,     580.5,       0.0);         ( 566110.5, 4191634.2,
177.8,     580.5,       0.0);
     ( 566130.5, 4191634.2,     185.1,     580.5,       0.0);         ( 566150.5, 4191634.2,
192.5,     580.5,       0.0);
     ( 566170.5, 4191634.2,     198.7,     580.5,       0.0);         ( 566190.5, 4191634.2,
204.1,     580.5,       0.0);
     ( 566210.5, 4191634.2,     209.0,     580.5,       0.0);         ( 566230.5, 4191634.2,
213.4,     580.5,       0.0);
     ( 566250.5, 4191634.2,     216.8,     580.5,       0.0);         ( 566270.5, 4191634.2,
218.6,     580.5,       0.0);
     ( 566290.5, 4191634.2,     219.5,     580.5,       0.0);         ( 566310.5, 4191634.2,
222.0,     580.5,       0.0);
     ( 566330.5, 4191634.2,     226.2,     580.5,       0.0);         ( 566350.5, 4191634.2,
231.3,     580.5,       0.0);
     ( 566370.5, 4191634.2,     236.6,     580.5,       0.0);         ( 566390.5, 4191634.2,
241.7,     580.5,       0.0);
     ( 565570.5, 4191654.2,      99.8,     580.5,       0.0);         ( 565590.5, 4191654.2,
100.9,     580.5,       0.0);
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(565610.5, 4191654.2, 102.2, 580.5, 0.0); (565630.5, 4191654.2,
103.3, 580.5, 0.0);
(565650.5, 4191654.2, 104.1, 580.5, 0.0); (565670.5, 4191654.2,
105.2, 580.5, 0.0);
(565690.5, 4191654.2, 106.7, 580.5, 0.0); (565710.5, 4191654.2,
108.5, 580.5, 0.0);
(565730.5, 4191654.2, 110.2, 580.5, 0.0); (565750.5, 4191654.2,
112.0, 580.5, 0.0);
(565770.5, 4191654.2, 114.0, 580.5, 0.0); (565790.5, 4191654.2,
116.1, 580.5, 0.0);
(565810.5, 4191654.2, 118.4, 580.5, 0.0); (565830.5, 4191654.2,
121.1, 580.5, 0.0);
(566010.5, 4191654.2, 147.6, 580.5, 0.0); (566030.5, 4191654.2,
153.1, 580.5, 0.0);
(566050.5, 4191654.2, 157.8, 580.5, 0.0); (566070.5, 4191654.2,
161.9, 580.5, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(566090.5, 4191654.2, 167.1, 580.5, 0.0); (566110.5, 4191654.2,
173.5, 580.5, 0.0);
(566130.5, 4191654.2, 180.5, 580.5, 0.0); (566150.5, 4191654.2,
187.4, 580.5, 0.0);
(566170.5, 4191654.2, 193.9, 580.5, 0.0); (566190.5, 4191654.2,
199.3, 580.5, 0.0);
(566210.5, 4191654.2, 203.9, 580.5, 0.0); (566230.5, 4191654.2,
207.7, 580.5, 0.0);
(566250.5, 4191654.2, 210.7, 580.5, 0.0); (566270.5, 4191654.2,
212.1, 580.5, 0.0);
(566290.5, 4191654.2, 213.7, 580.5, 0.0); (566310.5, 4191654.2,
217.2, 580.5, 0.0);
(565570.5, 4191674.2, 100.6, 580.5, 0.0); (565590.5, 4191674.2,
101.8, 580.5, 0.0);
(565610.5, 4191674.2, 103.0, 580.5, 0.0); (565630.5, 4191674.2,
104.1, 580.5, 0.0);
(565650.5, 4191674.2, 105.1, 580.5, 0.0); (565670.5, 4191674.2,
106.4, 580.5, 0.0);
(565690.5, 4191674.2, 108.0, 580.5, 0.0); (565710.5, 4191674.2,
109.7, 580.5, 0.0);
(565730.5, 4191674.2, 111.3, 580.5, 0.0); (566010.5, 4191674.2,
145.2, 580.5, 0.0);
(566030.5, 4191674.2, 148.2, 580.5, 0.0); (566050.5, 4191674.2,
151.4, 580.5, 0.0);
(566070.5, 4191674.2, 155.6, 580.5, 0.0); (566090.5, 4191674.2,
161.4, 580.5, 0.0);
(566110.5, 4191674.2, 167.8, 580.5, 0.0); (566130.5, 4191674.2,
173.8, 580.5, 0.0);
(566150.5, 4191674.2, 179.6, 580.5, 0.0); (566170.5, 4191674.2,
186.2, 580.5, 0.0);
(566190.5, 4191674.2, 192.0, 580.5, 0.0); (566210.5, 4191674.2,
196.3, 580.5, 0.0);
(566230.5, 4191674.2, 199.7, 580.5, 0.0); (566250.5, 4191674.2,

```
202.1,     580.5,       0.0);
     ( 566270.5, 4191674.2,     203.4,     580.5,       0.0);         ( 566290.5, 4191674.2,
206.9,     580.5,       0.0);
     ( 565570.5, 4191694.2,     102.0,     580.5,       0.0);         ( 565590.5, 4191694.2,
103.1,     580.5,       0.0);
     ( 565610.5, 4191694.2,     104.0,     580.5,       0.0);         ( 565630.5, 4191694.2,
105.0,     580.5,       0.0);
     ( 565650.5, 4191694.2,     106.3,     580.5,       0.0);         ( 565670.5, 4191694.2,
107.7,     580.5,       0.0);
     ( 565690.5, 4191694.2,     109.1,     580.5,       0.0);         ( 565710.5, 4191694.2,
110.7,     580.5,       0.0);
     ( 565730.5, 4191694.2,     112.2,     580.5,       0.0);         ( 566050.5, 4191694.2,
146.9,     580.5,       0.0);
     ( 566070.5, 4191694.2,     150.3,     580.5,       0.0);         ( 566090.5, 4191694.2,
155.6,     580.5,       0.0);
     ( 566110.5, 4191694.2,     161.4,     580.5,       0.0);         ( 566130.5, 4191694.2,
167.2,     580.5,       0.0);
     ( 566150.5, 4191694.2,     172.9,     580.5,       0.0);         ( 566170.5, 4191694.2,
179.2,     580.5,       0.0);
     ( 566190.5, 4191694.2,     184.9,     580.5,       0.0);         ( 566210.5, 4191694.2,
188.8,     580.5,       0.0);
     ( 566230.5, 4191694.2,     191.2,     580.5,       0.0);         ( 566250.5, 4191694.2,
193.4,     580.5,       0.0);
     ( 566270.5, 4191694.2,     196.8,     580.5,       0.0);         ( 565570.5, 4191714.2,
102.9,     580.5,       0.0);
     ( 565590.5, 4191714.2,     104.3,     580.5,       0.0);         ( 565610.5, 4191714.2,
105.5,     580.5,       0.0);
     ( 565630.5, 4191714.2,     106.5,     580.5,       0.0);         ( 565650.5, 4191714.2,
107.7,     580.5,       0.0);
     ( 565670.5, 4191714.2,     109.0,     580.5,       0.0);         ( 565690.5, 4191714.2,
110.4,     580.5,       0.0);
     ( 565710.5, 4191714.2,     111.7,     580.5,       0.0);         ( 565730.5, 4191714.2,
113.1,     580.5,       0.0);
     ( 566070.5, 4191714.2,     147.1,     580.5,       0.0);         ( 566090.5, 4191714.2,
150.9,     580.5,       0.0);
     ( 566110.5, 4191714.2,     155.4,     580.5,       0.0);         ( 566130.5, 4191714.2,
160.7,     580.5,       0.0);
     ( 566150.5, 4191714.2,     166.5,     580.5,       0.0);         ( 566170.5, 4191714.2,
172.8,     580.5,       0.0);
     ( 566190.5, 4191714.2,     178.5,     580.5,       0.0);         ( 565570.5, 4191734.2,
103.6,     580.5,       0.0);
     ( 565590.5, 4191734.2,     105.4,     580.5,       0.0);         ( 565610.5, 4191734.2,
107.3,     580.5,       0.0);
     ( 565630.5, 4191734.2,     108.1,     580.5,       0.0);         ( 565650.5, 4191734.2,
109.2,     580.5,       0.0);
     ( 565670.5, 4191734.2,     110.5,     580.5,       0.0);         ( 565690.5, 4191734.2,
111.7,     580.5,       0.0);
     ( 565710.5, 4191734.2,     112.7,     580.5,       0.0);         ( 566110.5, 4191734.2,
149.8,     580.5,       0.0);
     ( 566130.5, 4191734.2,     154.2,     580.5,       0.0);         ( 566150.5, 4191734.2,
160.4,     580.5,       0.0);
     ( 566170.5, 4191734.2,     166.8,     580.5,       0.0);         ( 566190.5, 4191734.2,
172.8,     580.5,       0.0);
     ( 565570.5, 4191754.2,     104.4,     580.5,       0.0);         ( 565590.5, 4191754.2,
106.3,     580.5,       0.0);
     ( 565610.5, 4191754.2,     108.2,     580.5,       0.0);         ( 565630.5, 4191754.2,
108.9,     580.5,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(565650.5, 4191754.2, 110.6, 580.5, 0.0); (565670.5, 4191754.2, 112.2, 580.5, 0.0);
(565690.5, 4191754.2, 113.2, 580.5, 0.0); (565710.5, 4191754.2, 113.9, 580.5, 0.0);
(566130.5, 4191754.2, 150.5, 580.5, 0.0); (566150.5, 4191754.2, 155.0, 580.5, 0.0);
(566170.5, 4191754.2, 160.6, 580.5, 0.0); (566190.5, 4191754.2, 165.9, 580.5, 0.0);
(565570.5, 4191774.2, 105.0, 580.5, 0.0); (565590.5, 4191774.2, 106.7, 580.5, 0.0);
(565610.5, 4191774.2, 108.6, 580.5, 0.0); (565630.5, 4191774.2, 109.5, 580.5, 0.0);
(565650.5, 4191774.2, 111.6, 580.5, 0.0); (565670.5, 4191774.2, 113.6, 580.5, 0.0);
(565690.5, 4191774.2, 114.8, 580.5, 0.0); (565710.5, 4191774.2, 115.4, 580.5, 0.0);
(566170.5, 4191774.2, 155.0, 580.5, 0.0); (566190.5, 4191774.2, 159.3, 580.5, 0.0);
(565570.5, 4191794.2, 105.4, 580.5, 0.0); (565590.5, 4191794.2, 106.8, 580.5, 0.0);
(565610.5, 4191794.2, 108.7, 580.5, 0.0); (565630.5, 4191794.2, 110.0, 580.5, 0.0);
(565650.5, 4191794.2, 112.5, 580.5, 0.0); (565670.5, 4191794.2, 114.8, 580.5, 0.0);
(565690.5, 4191794.2, 116.3, 580.5, 0.0); (565710.5, 4191794.2, 117.0, 580.5, 0.0);
(565570.5, 4191814.2, 105.5, 580.5, 0.0); (565590.5, 4191814.2, 107.2, 580.5, 0.0);
(565610.5, 4191814.2, 109.1, 580.5, 0.0); (565630.5, 4191814.2, 110.3, 580.5, 0.0);
(565650.5, 4191814.2, 113.2, 580.5, 0.0); (565670.5, 4191814.2, 115.8, 580.5, 0.0);
(565690.5, 4191814.2, 117.3, 580.5, 0.0); (565710.5, 4191814.2, 117.9, 580.5, 0.0);
(565570.5, 4191834.2, 105.5, 580.5, 0.0); (565590.5, 4191834.2, 107.4, 580.5, 0.0);
(565610.5, 4191834.2, 109.4, 580.5, 0.0); (565630.5, 4191834.2, 110.6, 580.5, 0.0);
(565650.5, 4191834.2, 113.3, 580.5, 0.0); (565670.5, 4191834.2, 115.8, 580.5, 0.0);
(565690.5, 4191834.2, 117.4, 580.5, 0.0); (565710.5, 4191834.2, 118.2, 580.5, 0.0);
(565570.5, 4191854.2, 105.3, 580.5, 0.0); (565590.5, 4191854.2, 107.5, 580.5, 0.0);
(565610.5, 4191854.2, 109.5, 580.5, 0.0); (565630.5, 4191854.2, 110.9, 580.5, 0.0);
(565650.5, 4191854.2, 112.9, 580.5, 0.0); (565670.5, 4191854.2, 114.9, 580.5, 0.0);
(565690.5, 4191854.2, 116.7, 580.5, 0.0); (565710.5, 4191854.2, 118.1, 580.5, 0.0);
(565570.5, 4191874.2, 105.2, 580.5, 0.0); (565590.5, 4191874.2, 107.6, 580.5, 0.0);
(565610.5, 4191874.2, 109.5, 580.5, 0.0); (565630.5, 4191874.2,

111.3,   580.5,   0.0);
     (565650.5, 4191874.2,   113.5,   580.5,   0.0);   (565670.5, 4191874.2,
115.5,   580.5,   0.0);
     (565690.5, 4191874.2,   117.4,   580.5,   0.0);   (565710.5, 4191874.2,
119.0,   580.5,   0.0);
     (565570.5, 4191894.2,   105.6,   580.5,   0.0);   (565590.5, 4191894.2,
108.1,   580.5,   0.0);
     (565610.5, 4191894.2,   110.1,   580.5,   0.0);   (565630.5, 4191894.2,
112.2,   580.5,   0.0);
     (565650.5, 4191894.2,   114.3,   580.5,   0.0);   (565670.5, 4191894.2,
116.4,   580.5,   0.0);
     (565690.5, 4191894.2,   118.3,   580.5,   0.0);   (565710.5, 4191894.2,
119.8,   580.5,   0.0);
     (565570.5, 4191914.2,   106.5,   580.5,   0.0);   (565590.5, 4191914.2,
109.0,   580.5,   0.0);
     (565610.5, 4191914.2,   111.3,   580.5,   0.0);   (565630.5, 4191914.2,
113.6,   580.5,   0.0);
     (565650.5, 4191914.2,   115.6,   580.5,   0.0);   (565670.5, 4191914.2,
117.6,   580.5,   0.0);
     (565690.5, 4191914.2,   119.4,   580.5,   0.0);   (565710.5, 4191914.2,
120.7,   580.5,   0.0);
     (565570.5, 4191934.2,   109.1,   580.5,   0.0);   (565590.5, 4191934.2,
111.6,   580.5,   0.0);
     (565610.5, 4191934.2,   113.9,   580.5,   0.0);   (565630.5, 4191934.2,
115.7,   580.5,   0.0);
     (565650.5, 4191934.2,   117.2,   580.5,   0.0);   (565670.5, 4191934.2,
118.7,   580.5,   0.0);
     (565690.5, 4191934.2,   120.1,   580.5,   0.0);   (565710.5, 4191934.2,
121.3,   580.5,   0.0);
     (565570.5, 4191954.2,   112.1,   580.5,   0.0);   (565590.5, 4191954.2,
114.6,   580.5,   0.0);
     (565610.5, 4191954.2,   116.8,   580.5,   0.0);   (565630.5, 4191954.2,
118.2,   580.5,   0.0);
     (565650.5, 4191954.2,   119.3,   580.5,   0.0);   (565670.5, 4191954.2,
120.2,   580.5,   0.0);
     (565690.5, 4191954.2,   121.3,   580.5,   0.0);   (565710.5, 4191954.2,
122.5,   580.5,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

     (565570.5, 4191974.2,   115.6,   580.5,   0.0);   (565590.5, 4191974.2,
118.1,   580.5,   0.0);
     (565610.5, 4191974.2,   120.3,   580.5,   0.0);   (565630.5, 4191974.2,
121.2,   580.5,   0.0);
     (565650.5, 4191974.2,   122.0,   580.5,   0.0);   (565670.5, 4191974.2,
122.5,   580.5,   0.0);
     (565690.5, 4191974.2,   123.3,   580.5,   0.0);   (565710.5, 4191974.2,
124.8,   580.5,   0.0);
     (565570.5, 4191994.2,   118.4,   580.5,   0.0);   (565590.5, 4191994.2,
121.1,   580.5,   0.0);
     (565610.5, 4191994.2,   123.6,   580.5,   0.0);   (565630.5, 4191994.2,
125.1,   580.5,   0.0);

```
    ( 565650.5, 4191994.2,     125.8,     580.5,       0.0);        ( 565670.5, 4191994.2,
126.3,     580.5,       0.0);
    ( 565690.5, 4191994.2,     127.2,     580.5,       0.0);        ( 565710.5, 4191994.2,
128.7,     580.5,       0.0);
    ( 565570.5, 4192014.2,     120.6,     580.5,       0.0);        ( 565590.5, 4192014.2,
123.2,     580.5,       0.0);
    ( 565610.5, 4192014.2,     126.3,     580.5,       0.0);        ( 565630.5, 4192014.2,
129.1,     580.5,       0.0);
    ( 565650.5, 4192014.2,     129.7,     580.5,       0.0);        ( 565670.5, 4192014.2,
130.2,     580.5,       0.0);
    ( 565690.5, 4192014.2,     131.2,     580.5,       0.0);        ( 565710.5, 4192014.2,
132.9,     580.5,       0.0);
    ( 565570.5, 4192034.2,     121.6,     580.5,       0.0);        ( 565590.5, 4192034.2,
123.7,     580.5,       0.0);
    ( 565610.5, 4192034.2,     127.8,     580.5,       0.0);        ( 565630.5, 4192034.2,
133.0,     580.5,       0.0);
    ( 565650.5, 4192034.2,     133.4,     580.5,       0.0);        ( 565670.5, 4192034.2,
133.5,     580.5,       0.0);
    ( 565690.5, 4192034.2,     134.4,     580.5,       0.0);        ( 565710.5, 4192034.2,
136.9,     580.5,       0.0);
    ( 565570.5, 4192054.2,     123.6,     580.5,       0.0);        ( 565590.5, 4192054.2,
125.5,     580.5,       0.0);
    ( 565610.5, 4192054.2,     129.8,     580.5,       0.0);        ( 565630.5, 4192054.2,
135.6,     580.5,       0.0);
    ( 565650.5, 4192054.2,     136.5,     580.5,       0.0);        ( 565670.5, 4192054.2,
137.1,     580.5,       0.0);
    ( 565690.5, 4192054.2,     138.9,     580.5,       0.0);        ( 565570.5, 4192074.2,
126.5,     580.5,       0.0);
    ( 565590.5, 4192074.2,     128.5,     580.5,       0.0);        ( 565610.5, 4192074.2,
132.3,     580.5,       0.0);
    ( 565630.5, 4192074.2,     137.6,     580.5,       0.0);        ( 565650.5, 4192074.2,
139.2,     580.5,       0.0);
    ( 565670.5, 4192074.2,     140.9,     580.5,       0.0);        ( 565690.5, 4192074.2,
143.8,     580.5,       0.0);
    ( 565570.5, 4192094.2,     131.5,     580.5,       0.0);        ( 565590.5, 4192094.2,
134.2,     580.5,       0.0);
    ( 565610.5, 4192094.2,     136.6,     580.5,       0.0);        ( 565630.5, 4192094.2,
139.2,     580.5,       0.0);
    ( 565650.5, 4192094.2,     141.7,     580.5,       0.0);        ( 565570.5, 4192114.2,
133.7,     580.5,       0.0);
    ( 565590.5, 4192114.2,     136.8,     580.5,       0.0);        ( 565610.5, 4192114.2,
139.0,     580.5,       0.0);
    ( 565630.5, 4192114.2,     141.1,     580.5,       0.0);        ( 565650.5, 4192114.2,
144.4,     580.5,       0.0);
    ( 565570.5, 4192134.2,     134.5,     580.5,       0.0);        ( 565590.5, 4192134.2,
138.1,     580.5,       0.0);
    ( 565610.5, 4192134.2,     140.7,     580.5,       0.0);        ( 565630.5, 4192134.2,
143.4,     580.5,       0.0);
    ( 565570.5, 4192154.2,     134.9,     580.5,       0.0);        ( 565590.5, 4192154.2,
139.1,     580.5,       0.0);
    ( 565610.5, 4192154.2,     143.0,     580.5,       0.0);        ( 565630.5, 4192154.2,
147.1,     580.5,       0.0);
    ( 565570.5, 4192174.2,     137.1,     580.5,       0.0);        ( 565590.5, 4192174.2,
141.8,     580.5,       0.0);
    ( 565610.5, 4192174.2,     146.6,     580.5,       0.0);        ( 565630.5, 4192174.2,
151.7,     580.5,       0.0);
    ( 565690.5, 4192174.2,     166.4,     580.5,       0.0);        ( 565710.5, 4192174.2,
171.4,     580.5,       0.0);
    ( 565730.5, 4192174.2,     175.1,     580.5,       0.0);        ( 565750.5, 4192174.2,
177.5,     580.5,       0.0);
    ( 565770.5, 4192174.2,     181.6,     580.5,       0.0);        ( 565790.5, 4192174.2,
```

189.1,   580.5,   0.0);
     (565810.5, 4192174.2,   197.6,   580.5,   0.0);   (565570.5, 4192194.2,
140.6,   580.5,   0.0);
     (565590.5, 4192194.2,   145.6,   580.5,   0.0);   (565610.5, 4192194.2,
151.2,   580.5,   0.0);
     (565630.5, 4192194.2,   156.8,   580.5,   0.0);   (565650.5, 4192194.2,
161.9,   580.5,   0.0);
     (565670.5, 4192194.2,   167.6,   580.5,   0.0);   (565690.5, 4192194.2,
173.0,   580.5,   0.0);
     (565710.5, 4192194.2,   177.6,   580.5,   0.0);   (565730.5, 4192194.2,
180.8,   580.5,   0.0);
     (565750.5, 4192194.2,   183.7,   580.5,   0.0);   (565770.5, 4192194.2,
185.5,   580.5,   0.0);
     (565790.5, 4192194.2,   189.4,   580.5,   0.0);   (565810.5, 4192194.2,
195.6,   580.5,   0.0);
     (565570.5, 4192214.2,   146.0,   580.5,   0.0);   (565590.5, 4192214.2,
151.0,   580.5,   0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

     (565610.5, 4192214.2,   156.6,   580.5,   0.0);   (565630.5, 4192214.2,
163.1,   580.5,   0.0);
     (565650.5, 4192214.2,   169.2,   580.5,   0.0);   (565670.5, 4192214.2,
175.1,   580.5,   0.0);
     (565690.5, 4192214.2,   179.8,   580.5,   0.0);   (565710.5, 4192214.2,
184.0,   580.5,   0.0);
     (565730.5, 4192214.2,   188.4,   580.5,   0.0);   (565750.5, 4192214.2,
192.4,   580.5,   0.0);
     (565770.5, 4192214.2,   194.7,   580.5,   0.0);   (565790.5, 4192214.2,
196.7,   580.5,   0.0);
     (565810.5, 4192214.2,   199.9,   580.5,   0.0);   (565570.5, 4192234.2,
150.5,   580.5,   0.0);
     (565590.5, 4192234.2,   155.7,   580.5,   0.0);   (565610.5, 4192234.2,
161.7,   580.5,   0.0);
     (565630.5, 4192234.2,   169.1,   580.5,   0.0);   (565650.5, 4192234.2,
175.7,   580.5,   0.0);
     (565670.5, 4192234.2,   181.2,   580.5,   0.0);   (565690.5, 4192234.2,
185.5,   580.5,   0.0);
     (565710.5, 4192234.2,   190.0,   580.5,   0.0);   (565730.5, 4192234.2,
195.6,   580.5,   0.0);
     (565750.5, 4192234.2,   200.5,   580.5,   0.0);   (565770.5, 4192234.2,
203.6,   580.5,   0.0);
     (565790.5, 4192234.2,   205.0,   580.5,   0.0);   (565810.5, 4192234.2,
206.2,   580.5,   0.0);
     (566610.6, 4191596.9,   291.2,   580.5,   0.0);   (566595.0, 4191572.6,
278.8,   580.5,   0.0);
     (566676.8, 4191551.7,   276.9,   580.5,   0.0);   (566582.8, 4191498.5,
239.5,   580.5,   0.0);
     (566607.2, 4191478.5,   237.2,   580.5,   0.0);   (566639.4, 4191459.3,
247.2,   580.5,   0.0);
     (566588.0, 4191437.5,   233.2,   580.5,   0.0);   (566635.9, 4191431.4,
252.6,   580.5,   0.0);

```
     ( 566616.7, 4191406.2,     253.0,     580.5,       0.0);         ( 566600.2, 4191377.4,
253.2,     580.5,       0.0);
     ( 566633.3, 4191315.6,     272.0,     580.5,       0.0);         ( 566669.0, 4191327.8,
286.5,     580.5,       0.0);
     ( 566868.5, 4191523.8,     329.8,     580.5,       0.0);         ( 566872.0, 4191416.6,
339.9,     580.5,       0.0);
     ( 566934.7, 4191401.0,     357.8,     538.2,       0.0);

↟ *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***       07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55

                PAGE 192
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                          *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                    (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1
1 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,
↟ *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***       07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55

                PAGE 193
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

   Surface file:   C:\Users\mmorales\Dropbox\12545 - UCB Softball\_AQ Data\Construction HRA\Met Dat
Met Version:  14134
   Profile file:   C:\Users\mmorales\Dropbox\12545 - UCB Softball\_AQ Data\Construction HRA\Met Dat
   Surface format: FREE

   Profile format: FREE
```

Surface station no.: 23230 Upper air station no.: 23230
Name: OAKLAND/WSO_AP Name: OAKLAND/WSO_AP

Year: 2009 Year: 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	-17.2	0.303	-9.000	-9.000	-999.	401.	147.2	0.63	0.86	1.00	2.36	81.	10.0	282.5	2.0
09	01	01	1	02	-21.8	0.383	-9.000	-9.000	-999.	569.	234.6	0.63	0.86	1.00	2.86	68.	10.0	282.0	2.0
09	01	01	1	03	-26.3	0.460	-9.000	-9.000	-999.	749.	337.1	0.63	0.86	1.00	3.36	84.	10.0	280.9	2.0
09	01	01	1	04	-15.4	0.270	-9.000	-9.000	-999.	368.	116.1	0.47	0.86	1.00	2.36	53.	10.0	280.9	2.0
09	01	01	1	05	-26.3	0.460	-9.000	-9.000	-999.	749.	336.3	0.63	0.86	1.00	3.36	73.	10.0	280.4	2.0
09	01	01	1	06	-21.9	0.383	-9.000	-9.000	-999.	573.	232.9	0.63	0.86	1.00	2.86	82.	10.0	280.4	2.0
09	01	01	1	07	-22.0	0.383	-9.000	-9.000	-999.	569.	232.5	0.63	0.86	1.00	2.86	95.	10.0	279.9	2.0
09	01	01	1	08	-11.2	0.196	-9.000	-9.000	-999.	238.	60.6	0.63	0.86	0.76	1.76	73.	10.0	279.9	2.0
09	01	01	1	09	-2.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.45	0.86	0.39	0.00	0.	10.0	280.4	2.0
09	01	01	1	10	6.8	0.266	0.264	0.016	98.	329.	-250.8	0.63	0.86	0.27	1.76	91.	10.0	280.9	2.0
09	01	01	1	11	15.5	-9.000	-9.000	-9.000	177.	-999.	-99999.0	0.45	0.86	0.22	0.00	0.	10.0	282.0	2.0
09	01	01	1	12	96.1	0.393	1.019	0.014	401.	591.	-57.4	0.22	0.86	0.21	3.36	266.	10.0	281.4	2.0
09	01	01	1	13	102.5	0.395	1.092	0.014	462.	595.	-54.4	0.22	0.86	0.20	3.36	283.	10.0	282.0	2.0
09	01	01	1	14	89.9	0.297	1.066	0.015	489.	394.	-26.5	0.22	0.86	0.21	2.36	249.	10.0	282.0	2.0
09	01	01	1	15	62.1	0.383	0.954	0.014	507.	569.	-82.1	0.22	0.86	0.24	3.36	242.	10.0	282.5	2.0
09	01	01	1	16	23.1	0.665	0.690	0.006	513.	1300.	-1150.4	0.52	0.86	0.33	4.86	304.	10.0	282.5	2.0
09	01	01	1	17	-37.0	0.486	-9.000	-9.000	-999.	846.	280.6	0.22	0.86	0.56	4.86	291.	10.0	281.4	2.0
09	01	01	1	18	-52.2	0.480	-9.000	-9.000	-999.	799.	191.9	0.52	0.86	1.00	3.86	307.	10.0	280.9	2.0
09	01	01	1	19	-25.6	0.224	-9.000	-9.000	-999.	327.	39.8	0.52	0.86	1.00	2.36	334.	10.0	280.4	2.0
09	01	01	1	20	-11.1	0.119	-9.000	-9.000	-999.	115.	13.8	0.52	0.86	1.00	1.76	317.	10.0	280.4	2.0
09	01	01	1	21	-10.3	0.119	-9.000	-9.000	-999.	98.	14.7	0.52	0.86	1.00	1.76	320.	10.0	280.4	2.0
09	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.45	0.86	1.00	0.00	0.	10.0	280.9	2.0
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.45	0.86	1.00	0.00	0.	10.0	281.4	2.0
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.45	0.86	1.00	0.00	0.	10.0	281.4	2.0

First hour of profile data

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565570.46	4191234.22	0.12606	565590.46	4191234.22	0.12760
565610.46	4191234.22	0.12899	565630.46	4191234.22	0.13010
565650.46	4191234.22	0.13100	565670.46	4191234.22	0.13166
565690.46	4191234.22	0.13207	565710.46	4191234.22	0.13223
565730.46	4191234.22	0.13209	565750.46	4191234.22	0.13164
565770.46	4191234.22	0.13091	565790.46	4191234.22	0.12986
565810.46	4191234.22	0.12836	565830.46	4191234.22	0.12650
565850.46	4191234.22	0.12454	565870.46	4191234.22	0.12241
565890.46	4191234.22	0.12006	565910.46	4191234.22	0.11751
565930.46	4191234.22	0.11494	565950.46	4191234.22	0.11267
565970.46	4191234.22	0.11063	565990.46	4191234.22	0.10895
566010.46	4191234.22	0.10781	566030.46	4191234.22	0.10741
566050.46	4191234.22	0.10787	566070.46	4191234.22	0.10897
566090.46	4191234.22	0.11076	566110.46	4191234.22	0.11332
566130.46	4191234.22	0.11674	566150.46	4191234.22	0.12098
566170.46	4191234.22	0.12616	566190.46	4191234.22	0.13178
566210.46	4191234.22	0.13759	566230.46	4191234.22	0.14327
566250.46	4191234.22	0.14719	566270.46	4191234.22	0.15229

566290.46	4191234.22	0.15513	566310.46	4191234.22	0.14928
566330.46	4191234.22	0.13843	566350.46	4191234.22	0.13104
566370.46	4191234.22	0.12761	566390.46	4191234.22	0.12512
566410.46	4191234.22	0.12299	566430.46	4191234.22	0.12187
566450.46	4191234.22	0.12201	566470.46	4191234.22	0.12327
566490.46	4191234.22	0.12627	566510.46	4191234.22	0.13097
566530.46	4191234.22	0.13614	566550.46	4191234.22	0.14173
566570.46	4191234.22	0.14767	565570.46	4191254.22	0.13181
565590.46	4191254.22	0.13377	565610.46	4191254.22	0.13546
565630.46	4191254.22	0.13688	565650.46	4191254.22	0.13811
565670.46	4191254.22	0.13911	565690.46	4191254.22	0.13984
565710.46	4191254.22	0.14027	565730.46	4191254.22	0.14041
565750.46	4191254.22	0.14020	565770.46	4191254.22	0.13967
565790.46	4191254.22	0.13880	565810.46	4191254.22	0.13747
565830.46	4191254.22	0.13579	565850.46	4191254.22	0.13387
565870.46	4191254.22	0.13174	565890.46	4191254.22	0.12936
565910.46	4191254.22	0.12672	565930.46	4191254.22	0.12400
565950.46	4191254.22	0.12146	565970.46	4191254.22	0.11913
565990.46	4191254.22	0.11716	566010.46	4191254.22	0.11576
566030.46	4191254.22	0.11518	566050.46	4191254.22	0.11571
566070.46	4191254.22	0.11691	566090.46	4191254.22	0.11880
566110.46	4191254.22	0.12156	566130.46	4191254.22	0.12530

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: PAREA1   ***

                                  INCLUDING SOURCE(S):   PAREA1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566150.46	4191254.22	0.12999	566170.46	4191254.22	0.13547
566190.46	4191254.22	0.14136	566210.46	4191254.22	0.14754
566230.46	4191254.22	0.15367	566250.46	4191254.22	0.15649
566270.46	4191254.22	0.16261	566290.46	4191254.22	0.16302
566310.46	4191254.22	0.15486	566330.46	4191254.22	0.14444
566350.46	4191254.22	0.13870	566370.46	4191254.22	0.13583
566390.46	4191254.22	0.13295	566410.46	4191254.22	0.13046
566430.46	4191254.22	0.12939	566450.46	4191254.22	0.13001
566470.46	4191254.22	0.13194	566490.46	4191254.22	0.13566
566510.46	4191254.22	0.14063	566530.46	4191254.22	0.14610
566550.46	4191254.22	0.15209	566570.46	4191254.22	0.15840
565570.46	4191274.22	0.13769	565590.46	4191274.22	0.14011
565610.46	4191274.22	0.14215	565630.46	4191274.22	0.14396
565650.46	4191274.22	0.14559	565670.46	4191274.22	0.14699
565690.46	4191274.22	0.14808	565710.46	4191274.22	0.14884
565730.46	4191274.22	0.14930	565750.46	4191274.22	0.14940
565770.46	4191274.22	0.14914	565790.46	4191274.22	0.14848
565810.46	4191274.22	0.14740	565830.46	4191274.22	0.14601
565850.46	4191274.22	0.14415	565870.46	4191274.22	0.14208
565890.46	4191274.22	0.13972	565910.46	4191274.22	0.13702
565930.46	4191274.22	0.13416	565950.46	4191274.22	0.13136
565970.46	4191274.22	0.12872	565990.46	4191274.22	0.12637
566010.46	4191274.22	0.12458	566030.46	4191274.22	0.12371
566050.46	4191274.22	0.12427	566070.46	4191274.22	0.12555
566090.46	4191274.22	0.12759	566110.46	4191274.22	0.13061
566130.46	4191274.22	0.13476	566150.46	4191274.22	0.14000
566170.46	4191274.22	0.14574	566190.46	4191274.22	0.15189
566210.46	4191274.22	0.15853	566230.46	4191274.22	0.16526
566250.46	4191274.22	0.16706	566270.46	4191274.22	

0.17308
566290.46 4191274.22 0.17213 566310.46 4191274.22
0.16363
566330.46 4191274.22 0.15380 566350.46 4191274.22
0.14869
566370.46 4191274.22 0.14621 566390.46 4191274.22
0.14314
566410.46 4191274.22 0.14064 566430.46 4191274.22
0.13997
566450.46 4191274.22 0.14146 566470.46 4191274.22
0.14466
566490.46 4191274.22 0.14927 566510.46 4191274.22
0.15440
566530.46 4191274.22 0.15963 566550.46 4191274.22
0.16536
566570.46 4191274.22 0.17186 565570.46 4191294.22
0.14369
565590.46 4191294.22 0.14659 565610.46 4191294.22
0.14907
565630.46 4191294.22 0.15138 565650.46 4191294.22
0.15350
565670.46 4191294.22 0.15537 565690.46 4191294.22
0.15691

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565710.46	4191294.22	0.15807	565730.46	4191294.22	0.15895
565750.46	4191294.22	0.15941	565770.46	4191294.22	0.15945
565790.46	4191294.22	0.15907	565810.46	4191294.22	0.15830
565830.46	4191294.22	0.15723	565850.46	4191294.22	0.15556
565870.46	4191294.22	0.15363	565890.46	4191294.22	0.15133
565910.46	4191294.22	0.14863	565930.46	4191294.22	0.14580
565950.46	4191294.22	0.14285	565970.46	4191294.22	0.13982
565990.46	4191294.22	0.13700	566010.46	4191294.22	0.13471
566030.46	4191294.22	0.13335	566050.46	4191294.22	

0.13350
566070.46 4191294.22 0.13478 566090.46 4191294.22
0.13702
566110.46 4191294.22 0.14040 566130.46 4191294.22
0.14509
566150.46 4191294.22 0.15096 566170.46 4191294.22
0.15710
566190.46 4191294.22 0.16366 566210.46 4191294.22
0.17086
566230.46 4191294.22 0.17826 566250.46 4191294.22
0.18122
566270.46 4191294.22 0.18596 566290.46 4191294.22
0.18427
566310.46 4191294.22 0.17652 566330.46 4191294.22
0.16771
566350.46 4191294.22 0.16245 566370.46 4191294.22
0.15994
566390.46 4191294.22 0.15726 566410.46 4191294.22
0.15561
566430.46 4191294.22 0.15577 566450.46 4191294.22
0.15790
566470.46 4191294.22 0.16172 566490.46 4191294.22
0.16730
566510.46 4191294.22 0.17279 566530.46 4191294.22
0.17873
566550.46 4191294.22 0.18565 566570.46 4191294.22
0.19347
565570.46 4191314.22 0.14968 565590.46 4191314.22
0.15306
565610.46 4191314.22 0.15619 565630.46 4191314.22
0.15912
565650.46 4191314.22 0.16181 565670.46 4191314.22
0.16420
565690.46 4191314.22 0.16622 565710.46 4191314.22
0.16788
565730.46 4191314.22 0.16930 565750.46 4191314.22
0.17022
565770.46 4191314.22 0.17069 565790.46 4191314.22
0.17071
565810.46 4191314.22 0.17026 565830.46 4191314.22
0.16949
565850.46 4191314.22 0.16818 565870.46 4191314.22
0.16644
565890.46 4191314.22 0.16423 565910.46 4191314.22
0.16160
565930.46 4191314.22 0.15887 565950.46 4191314.22
0.15576
565970.46 4191314.22 0.15242 565990.46 4191314.22
0.14920
566010.46 4191314.22 0.14648 566030.46 4191314.22
0.14464
566050.46 4191314.22 0.14413 566070.46 4191314.22
0.14524
566090.46 4191314.22 0.14766 566110.46 4191314.22
0.15139
566130.46 4191314.22 0.15651 566150.46 4191314.22
0.16302
566170.46 4191314.22 0.16980 566190.46 4191314.22
0.17696
566210.46 4191314.22 0.18481 566230.46 4191314.22
0.19293

                              *** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)
CONC
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```
         566030.46    4191334.22        0.15780                      566050.46    4191334.22
0.15637
         566070.46    4191334.22        0.15712                      566090.46    4191334.22
0.15973
         566110.46    4191334.22        0.16379                      566130.46    4191334.22
0.16921
         566150.46    4191334.22        0.17639                      566170.46    4191334.22
0.18407
         566190.46    4191334.22        0.19204                      566210.46    4191334.22
0.20064
         566230.46    4191334.22        0.20839                      566250.46    4191334.22
0.21105
         566270.46    4191334.22        0.22027                      566290.46    4191334.22
0.22207
         566310.46    4191334.22        0.21802                      566330.46    4191334.22
0.21158
         566350.46    4191334.22        0.20560                      566370.46    4191334.22
0.20174
         566390.46    4191334.22        0.19894                      566410.46    4191334.22
0.19866
         566430.46    4191334.22        0.19903                      566450.46    4191334.22
0.20022
         566470.46    4191334.22        0.20331                      566490.46    4191334.22
0.21118
         566510.46    4191334.22        0.22014                      566530.46    4191334.22
0.23035
         566550.46    4191334.22        0.24116                      566570.46    4191334.22
0.25145
         565570.46    4191354.22        0.16144                      565590.46    4191354.22
0.16594
         565610.46    4191354.22        0.17035                      565630.46    4191354.22
0.17472
         565650.46    4191354.22        0.17883                      565670.46    4191354.22
0.18258
         565690.46    4191354.22        0.18600                      565710.46    4191354.22
0.18916
         565730.46    4191354.22        0.19194                      565750.46    4191354.22
0.19414
         565770.46    4191354.22        0.19587                      565790.46    4191354.22
0.19706
         565810.46    4191354.22        0.19758                      565830.46    4191354.22
0.19762
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 198
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)
CONC
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0.19463
566030.46 4191374.22 0.19172 566050.46 4191374.22
0.19008
566070.46 4191374.22 0.18970 566090.46 4191374.22
0.19228
566110.46 4191374.22 0.19763 566130.46 4191374.22
0.20441
566150.46 4191374.22 0.21126 566170.46 4191374.22
0.21846
566190.46 4191374.22 0.22800 566210.46 4191374.22
0.23914
566230.46 4191374.22 0.24369 566250.46 4191374.22
0.25266
566270.46 4191374.22 0.26370 566290.46 4191374.22
0.27143
566310.46 4191374.22 0.27356 566330.46 4191374.22
0.26894
566350.46 4191374.22 0.26153 566370.46 4191374.22
0.25699
566390.46 4191374.22 0.25496 566410.46 4191374.22
0.25495

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566430.46	4191374.22	0.25630	566450.46	4191374.22	0.25901
566470.46	4191374.22	0.26460	566490.46	4191374.22	0.27662
566510.46	4191374.22	0.29178	566530.46	4191374.22	0.30707
566550.46	4191374.22	0.32051	566570.46	4191374.22	0.33116
565570.46	4191394.22	0.17281	565590.46	4191394.22	0.17859
565610.46	4191394.22	0.18431	565630.46	4191394.22	0.19013
565650.46	4191394.22	0.19593	565670.46	4191394.22	0.20169
565690.46	4191394.22	0.20717	565710.46	4191394.22	0.21223
565730.46	4191394.22	0.21681	565750.46	4191394.22	0.22097
565770.46	4191394.22	0.22454	565790.46	4191394.22	

0.22752
565810.46 4191394.22 0.22985 565830.46 4191394.22
0.23147
565850.46 4191394.22 0.23286 565870.46 4191394.22
0.23354
565890.46 4191394.22 0.23304 565910.46 4191394.22
0.23143
565930.46 4191394.22 0.22956 565950.46 4191394.22
0.22690
565970.46 4191394.22 0.22342 565990.46 4191394.22
0.21991
566010.46 4191394.22 0.21656 566030.46 4191394.22
0.21346
566050.46 4191394.22 0.21169 566070.46 4191394.22
0.21181
566090.46 4191394.22 0.21570 566110.46 4191394.22
0.22159
566130.46 4191394.22 0.22734 566150.46 4191394.22
0.23333
566170.46 4191394.22 0.24103 566190.46 4191394.22
0.25057
566210.46 4191394.22 0.26281 566230.46 4191394.22
0.26851
566250.46 4191394.22 0.27728 566270.46 4191394.22
0.28958
566290.46 4191394.22 0.29845 566310.46 4191394.22
0.30235
566330.46 4191394.22 0.30025 566350.46 4191394.22
0.29548
566370.46 4191394.22 0.29325 566390.46 4191394.22
0.29361
566410.46 4191394.22 0.29746 566430.46 4191394.22
0.30162
566450.46 4191394.22 0.30660 566470.46 4191394.22
0.31361
566490.46 4191394.22 0.32752 566510.46 4191394.22
0.34434
566530.46 4191394.22 0.36014 566550.46 4191394.22
0.37361
566570.46 4191394.22 0.38487 565570.46 4191414.22
0.17829
565590.46 4191414.22 0.18472 565610.46 4191414.22
0.19124
565630.46 4191414.22 0.19791 565650.46 4191414.22
0.20468
565670.46 4191414.22 0.21150 565690.46 4191414.22
0.21812
565710.46 4191414.22 0.22434 565730.46 4191414.22
0.23007
565750.46 4191414.22 0.23546 565770.46 4191414.22
0.24019
565790.46 4191414.22 0.24426 565810.46 4191414.22
0.24781
565830.46 4191414.22 0.25087 565850.46 4191414.22
0.25320
565870.46 4191414.22 0.25489 565890.46 4191414.22
0.25535
565910.46 4191414.22 0.25454 565930.46 4191414.22
0.25322
565950.46 4191414.22 0.25121 565970.46 4191414.22
0.24799

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565990.46	4191414.22	0.24474	566010.46	4191414.22	0.24183
566030.46	4191414.22	0.23938	566050.46	4191414.22	0.23816
566070.46	4191414.22	0.23948	566090.46	4191414.22	0.24292
566110.46	4191414.22	0.24650	566130.46	4191414.22	0.24296
566150.46	4191414.22	0.23406	566170.46	4191414.22	0.24535
566190.46	4191414.22	0.26652	566210.46	4191414.22	0.28065
566230.46	4191414.22	0.29170	566250.46	4191414.22	0.30543
566270.46	4191414.22	0.31878	566290.46	4191414.22	0.32848
566310.46	4191414.22	0.33430	566330.46	4191414.22	0.33414
566350.46	4191414.22	0.32968	566370.46	4191414.22	0.32620
566390.46	4191414.22	0.33070	566410.46	4191414.22	0.33941
566430.46	4191414.22	0.34993	566450.46	4191414.22	0.36107
566470.46	4191414.22	0.37206	566490.46	4191414.22	0.38751
566510.46	4191414.22	0.40567	566530.46	4191414.22	0.42419
566550.46	4191414.22	0.44023	566570.46	4191414.22	0.45309
565570.46	4191434.22	0.18348	565590.46	4191434.22	0.19060
565610.46	4191434.22	0.19801	565630.46	4191434.22	0.20560
565650.46	4191434.22	0.21340	565670.46	4191434.22	0.22130
565690.46	4191434.22	0.22914	565710.46	4191434.22	0.23661
565730.46	4191434.22	0.24368	565750.46	4191434.22	0.25043

565770.46 4191434.22 0.25655 565790.46 4191434.22
0.26204
565810.46 4191434.22 0.26709 565830.46 4191434.22
0.27164
565850.46 4191434.22 0.27535 565870.46 4191434.22
0.27848
565890.46 4191434.22 0.28023 565910.46 4191434.22
0.28046
565930.46 4191434.22 0.28011 565950.46 4191434.22
0.27899
565970.46 4191434.22 0.27638 565990.46 4191434.22
0.27382
566010.46 4191434.22 0.27182 566030.46 4191434.22
0.27043
566050.46 4191434.22 0.26990 566070.46 4191434.22
0.27087
566090.46 4191434.22 0.27171 566110.46 4191434.22
0.26239
566130.46 4191434.22 0.23681 566150.46 4191434.22
0.23206
566170.46 4191434.22 0.24167 566190.46 4191434.22
0.26425
566210.46 4191434.22 0.29022 566230.46 4191434.22
0.31353
566250.46 4191434.22 0.33210 566270.46 4191434.22
0.34342
566290.46 4191434.22 0.35180 566310.46 4191434.22
0.35899
566330.46 4191434.22 0.36246 566350.46 4191434.22
0.36127
566370.46 4191434.22 0.35920 566390.46 4191434.22
0.36948
566410.46 4191434.22 0.38353 566430.46 4191434.22
0.40188
566450.46 4191434.22 0.42134 566470.46 4191434.22
0.43876
566490.46 4191434.22 0.45626 566510.46 4191434.22
0.47551
566530.46 4191434.22 0.49776 566550.46 4191434.22
0.51806

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

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

566570.46 4191434.22 0.53371 565570.46 4191454.22
0.18838
565590.46 4191454.22 0.19623 565610.46 4191454.22
0.20455
565630.46 4191454.22 0.21312 565650.46 4191454.22
0.22197
565670.46 4191454.22 0.23101 565690.46 4191454.22
0.24011
565710.46 4191454.22 0.24891 565730.46 4191454.22
0.25746
565750.46 4191454.22 0.26579 565770.46 4191454.22
0.27354
565790.46 4191454.22 0.28079 565810.46 4191454.22
0.28768
565830.46 4191454.22 0.29372 565850.46 4191454.22
0.29935
565870.46 4191454.22 0.30448 565890.46 4191454.22
0.30791
565910.46 4191454.22 0.30951 565930.46 4191454.22
0.31067
565950.46 4191454.22 0.31073 565970.46 4191454.22
0.30923
565990.46 4191454.22 0.30805 566010.46 4191454.22
0.30766
566030.46 4191454.22 0.30765 566050.46 4191454.22
0.30712
566070.46 4191454.22 0.30491 566090.46 4191454.22
0.29112
566110.46 4191454.22 0.25679 566130.46 4191454.22
0.23835
566150.46 4191454.22 0.22953 566170.46 4191454.22
0.23417
566190.46 4191454.22 0.25134 566210.46 4191454.22
0.27588
566230.46 4191454.22 0.30448 566250.46 4191454.22
0.33077
566270.46 4191454.22 0.33716 566290.46 4191454.22
0.34464
566310.46 4191454.22 0.35780 566330.46 4191454.22
0.37199
566350.46 4191454.22 0.38297 566370.46 4191454.22
0.39029
566390.46 4191454.22 0.40660 566410.46 4191454.22
0.42530
566430.46 4191454.22 0.44763 566450.46 4191454.22
0.47302
566470.46 4191454.22 0.49947 566490.46 4191454.22
0.52246
566510.46 4191454.22 0.54331 566530.46 4191454.22
0.56915
566550.46 4191454.22 0.59536 566570.46 4191454.22
0.61726
565570.46 4191474.22 0.19306 565590.46 4191474.22
0.20159
565610.46 4191474.22 0.21081 565630.46 4191474.22
0.22034
565650.46 4191474.22 0.23024 565670.46 4191474.22
0.24038
565690.46 4191474.22 0.25062 565710.46 4191474.22
0.26094
565730.46 4191474.22 0.27123 565750.46 4191474.22

0.28136
565770.46 4191474.22 0.29110 565790.46 4191474.22
0.30052
565810.46 4191474.22 0.30970 565830.46 4191474.22
0.31770
565850.46 4191474.22 0.32598 565870.46 4191474.22
0.33325
565890.46 4191474.22 0.33831 565910.46 4191474.22
0.34148
565930.46 4191474.22 0.34461 565950.46 4191474.22
0.34696
565970.46 4191474.22 0.34753 565990.46 4191474.22
0.34899
566010.46 4191474.22 0.35034 566030.46 4191474.22
0.34971
566050.46 4191474.22 0.34691 566070.46 4191474.22
0.33329
566090.46 4191474.22 0.29302 566110.46 4191474.22
0.26440

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566130.46	4191474.22	0.24233	566150.46	4191474.22	0.23208
566170.46	4191474.22	0.23535	566190.46	4191474.22	0.25026
566210.46	4191474.22	0.27141	566230.46	4191474.22	0.29729
566250.46	4191474.22	0.32413	566270.46	4191474.22	0.33763
566290.46	4191474.22	0.35018	566310.46	4191474.22	0.36808
566330.46	4191474.22	0.39056	566350.46	4191474.22	0.41473
566370.46	4191474.22	0.43464	566390.46	4191474.22	0.45216
566410.46	4191474.22	0.47044	566430.46	4191474.22	0.49367
566450.46	4191474.22	0.52281	566470.46	4191474.22	0.55582
566490.46	4191474.22	0.58472	566510.46	4191474.22	0.60672
566530.46	4191474.22	0.63455	566550.46	4191474.22	

0.66456
566570.46 4191474.22 0.69167 565570.46 4191494.22
0.19748
565590.46 4191494.22 0.20673 565610.46 4191494.22
0.21681
565630.46 4191494.22 0.22720 565650.46 4191494.22
0.23814
565670.46 4191494.22 0.24944 565690.46 4191494.22
0.26096
565710.46 4191494.22 0.27291 565730.46 4191494.22
0.28504
565750.46 4191494.22 0.29712 565770.46 4191494.22
0.30903
565790.46 4191494.22 0.32093 565810.46 4191494.22
0.33276
565830.46 4191494.22 0.34320 565850.46 4191494.22
0.35456
565870.46 4191494.22 0.36439 565890.46 4191494.22
0.37185
565910.46 4191494.22 0.37760 565930.46 4191494.22
0.38367
565950.46 4191494.22 0.38885 565970.46 4191494.22
0.39243
565990.46 4191494.22 0.39690 566010.46 4191494.22
0.39949
566030.46 4191494.22 0.39769 566050.46 4191494.22
0.39233
566070.46 4191494.22 0.35039 566090.46 4191494.22
0.30932
566110.46 4191494.22 0.27174 566130.46 4191494.22
0.24598
566150.46 4191494.22 0.23769 566170.46 4191494.22
0.24357
566190.46 4191494.22 0.26025 566210.46 4191494.22
0.28245
566230.46 4191494.22 0.30875 566250.46 4191494.22
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566270.46 4191494.22 0.35597 566290.46 4191494.22
0.36937
566310.46 4191494.22 0.38808 566330.46 4191494.22
0.41564
566350.46 4191494.22 0.45090 566370.46 4191494.22
0.48559
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566430.46 4191494.22 0.54348 566450.46 4191494.22
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566470.46 4191494.22 0.61078 566490.46 4191494.22
0.64541
566510.46 4191494.22 0.66861 566530.46 4191494.22
0.69626
566550.46 4191494.22 0.72734 566570.46 4191494.22
0.75779
565570.46 4191514.22 0.20166 565590.46 4191514.22
0.21169
565610.46 4191514.22 0.22251 565630.46 4191514.22
0.23363
565650.46 4191514.22 0.24559 565670.46 4191514.22
0.25809

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

                          *** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: PAREA1   ***
                              INCLUDING SOURCE(S):   PAREA1   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565690.46	4191514.22	0.27107	565710.46	4191514.22	0.28478
565730.46	4191514.22	0.29879	565750.46	4191514.22	0.31290
565770.46	4191514.22	0.32716	565790.46	4191514.22	0.34179
565810.46	4191514.22	0.35659	565830.46	4191514.22	0.37006
565850.46	4191514.22	0.38480	565870.46	4191514.22	0.39773
565890.46	4191514.22	0.40876	565910.46	4191514.22	0.41879
565930.46	4191514.22	0.42929	565950.46	4191514.22	0.43757
565970.46	4191514.22	0.44546	565990.46	4191514.22	0.45247
566010.46	4191514.22	0.45533	566030.46	4191514.22	0.45270
566050.46	4191514.22	0.43911	566070.46	4191514.22	0.37894
566090.46	4191514.22	0.32676	566110.46	4191514.22	0.27795
566130.46	4191514.22	0.25128	566150.46	4191514.22	0.24665
566170.46	4191514.22	0.25789	566190.46	4191514.22	0.27740
566210.46	4191514.22	0.30069	566230.46	4191514.22	0.32696
566250.46	4191514.22	0.35458	566270.46	4191514.22	0.37807
566290.46	4191514.22	0.39054	566310.46	4191514.22	0.40738
566330.46	4191514.22	0.43528	566350.46	4191514.22	0.47600
566370.46	4191514.22	0.52378	566390.46	4191514.22	0.56126
566410.46	4191514.22	0.58804	566430.46	4191514.22	0.60978
566450.46	4191514.22	0.63501	566470.46	4191514.22	0.66832
566490.46	4191514.22	0.70577	566510.46	4191514.22	0.73237

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         566530.46    4191514.22        0.75596                      566550.46    4191514.22
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0.20547
         565590.46    4191534.22        0.21600                      565610.46    4191534.22
0.22729
         565630.46    4191534.22        0.23930                      565650.46    4191534.22
0.25222
         565670.46    4191534.22        0.26590                      565690.46    4191534.22
0.28041
         565710.46    4191534.22        0.29588                      565730.46    4191534.22
0.31195
         565750.46    4191534.22        0.32825                      565770.46    4191534.22
0.34498
         565790.46    4191534.22        0.36231                      565810.46    4191534.22
0.38009
         565830.46    4191534.22        0.39761                      565850.46    4191534.22
0.41613
         565870.46    4191534.22        0.43312                      565890.46    4191534.22
0.44875
         565910.46    4191534.22        0.46405                      565930.46    4191534.22
0.48028
         565950.46    4191534.22        0.49275                      565970.46    4191534.22
0.50386
         565990.46    4191534.22        0.51379                      566010.46    4191534.22
0.51969
         566030.46    4191534.22        0.51829                      566050.46    4191534.22
0.49156
         566070.46    4191534.22        0.41152                      566090.46    4191534.22
0.34258
         566110.46    4191534.22        0.28794                      566130.46    4191534.22
0.26420
         566150.46    4191534.22        0.26287                      566170.46    4191534.22
0.27668
         566190.46    4191534.22        0.29819                      566210.46    4191534.22
0.32345
         566230.46    4191534.22        0.35091                      566250.46    4191534.22
0.37863
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      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 204
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
         566270.46    4191534.22        0.40301                      566290.46    4191534.22
0.41829
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566310.46 4191534.22 0.43732 566330.46 4191534.22
0.46670
566350.46 4191534.22 0.50968 566370.46 4191534.22
0.56387
566390.46 4191534.22 0.61566 566410.46 4191534.22
0.65777
566430.46 4191534.22 0.68879 566450.46 4191534.22
0.71625
566470.46 4191534.22 0.74640 566490.46 4191534.22
0.77921
566510.46 4191534.22 0.80539 566530.46 4191534.22
0.82398
566550.46 4191534.22 0.84318 566570.46 4191534.22
0.86387
565570.46 4191554.22 0.20886 565590.46 4191554.22
0.21982
565610.46 4191554.22 0.23161 565630.46 4191554.22
0.24440
565650.46 4191554.22 0.25821 565670.46 4191554.22
0.27302
565690.46 4191554.22 0.28899 565710.46 4191554.22
0.30616
565730.46 4191554.22 0.32438 565750.46 4191554.22
0.34304
565770.46 4191554.22 0.36245 565790.46 4191554.22
0.38275
565810.46 4191554.22 0.40383 565830.46 4191554.22
0.42544
565850.46 4191554.22 0.44819 565870.46 4191554.22
0.47033
565890.46 4191554.22 0.49195 565910.46 4191554.22
0.51390
565930.46 4191554.22 0.53681 565950.46 4191554.22
0.55459
565970.46 4191554.22 0.56940 565990.46 4191554.22
0.58426
566010.46 4191554.22 0.59580 566030.46 4191554.22
0.59257
566050.46 4191554.22 0.51626 566070.46 4191554.22
0.44606
566090.46 4191554.22 0.36335 566110.46 4191554.22
0.30998
566130.46 4191554.22 0.28692 566150.46 4191554.22
0.28517
566170.46 4191554.22 0.29973 566190.46 4191554.22
0.32284
566210.46 4191554.22 0.35117 566230.46 4191554.22
0.38155
566250.46 4191554.22 0.41071 566270.46 4191554.22
0.43597
566290.46 4191554.22 0.45770 566310.46 4191554.22
0.48266
566330.46 4191554.22 0.51608 566350.46 4191554.22
0.56130
566370.46 4191554.22 0.61841 566390.46 4191554.22
0.68011
566410.46 4191554.22 0.73918 566430.46 4191554.22
0.78587
566450.46 4191554.22 0.82084 566470.46 4191554.22
0.84861
566490.46 4191554.22 0.87298 566510.46 4191554.22

0.89501
566530.46 4191554.22 0.90716 566550.46 4191554.22
0.91779
566570.46 4191554.22 0.92891 565570.46 4191574.22
0.21181
565590.46 4191574.22 0.22320 565610.46 4191574.22
0.23552
565630.46 4191574.22 0.24887 565650.46 4191574.22
0.26350
565670.46 4191574.22 0.27937 565690.46 4191574.22
0.29663
565710.46 4191574.22 0.31538 565730.46 4191574.22
0.33583
565750.46 4191574.22 0.35704 565770.46 4191574.22
0.37940
565790.46 4191574.22 0.40302 565810.46 4191574.22
0.42770

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565830.46	4191574.22	0.45271	565850.46	4191574.22	0.48011
565870.46	4191574.22	0.50882	565890.46	4191574.22	0.53834
565910.46	4191574.22	0.56838	565930.46	4191574.22	0.59807
565950.46	4191574.22	0.62209	565970.46	4191574.22	0.64164
565990.46	4191574.22	0.66596	566010.46	4191574.22	0.68670
566030.46	4191574.22	0.67367	566050.46	4191574.22	0.56592
566070.46	4191574.22	0.48564	566090.46	4191574.22	0.40213
566110.46	4191574.22	0.35141	566130.46	4191574.22	0.32539
566150.46	4191574.22	0.31908	566170.46	4191574.22	0.33220
566190.46	4191574.22	0.35695	566210.46	4191574.22	0.39047
566230.46	4191574.22	0.42693	566250.46	4191574.22	0.46155
566270.46	4191574.22	0.49261	566290.46	4191574.22	

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0.52388
         566310.46    4191574.22        0.55943                    566330.46    4191574.22
0.60327
         566350.46    4191574.22        0.65715                    566370.46    4191574.22
0.71946
         566390.46    4191574.22        0.78513                    566410.46    4191574.22
0.84859
         566430.46    4191574.22        0.90292                    566450.46    4191574.22
0.94585
         566470.46    4191574.22        0.97752                    566490.46    4191574.22
0.99930
         566510.46    4191574.22        1.01274                    566530.46    4191574.22
1.01629
         566550.46    4191574.22        1.01475                    566570.46    4191574.22
1.00985
         565570.46    4191594.22        0.21446                    565590.46    4191594.22
0.22639
         565610.46    4191594.22        0.23942                    565630.46    4191594.22
0.25332
         565650.46    4191594.22        0.26856                    565670.46    4191594.22
0.28518
         565690.46    4191594.22        0.30343                    565710.46    4191594.22
0.32348
         565730.46    4191594.22        0.34602                    565750.46    4191594.22
0.36981
         565770.46    4191594.22        0.39516                    565790.46    4191594.22
0.42207
         565810.46    4191594.22        0.45033                    565830.46    4191594.22
0.47994
         565850.46    4191594.22        0.51304                    565870.46    4191594.22
0.55007
         565890.46    4191594.22        0.58953                    565910.46    4191594.22
0.62887
         565930.46    4191594.22        0.66510                    565950.46    4191594.22
0.69520
         565970.46    4191594.22        0.72503                    565990.46    4191594.22
0.76248
         566010.46    4191594.22        0.79379                    566030.46    4191594.22
0.74647
         566050.46    4191594.22        0.62979                    566070.46    4191594.22
0.54419
         566090.46    4191594.22        0.46080                    566110.46    4191594.22
0.40733
         566130.46    4191594.22        0.37434                    566150.46    4191594.22
0.36149
         566170.46    4191594.22        0.37308                    566190.46    4191594.22
0.40218
         566210.46    4191594.22        0.44377                    566230.46    4191594.22
0.48895
         566250.46    4191594.22        0.53253                    566270.46    4191594.22
0.57547
         566290.46    4191594.22        0.62247                    566310.46    4191594.22
0.67462
         566330.46    4191594.22        0.73431                    566350.46    4191594.22
0.80192
         566370.46    4191594.22        0.87489                    566390.46    4191594.22
0.94775
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     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566410.46	4191594.22	1.01534	566430.46	4191594.22	1.07212
566450.46	4191594.22	1.11518	566470.46	4191594.22	1.14338
566490.46	4191594.22	1.15692	566510.46	4191594.22	1.15773
566530.46	4191594.22	1.14777	566550.46	4191594.22	1.13028
566570.46	4191594.22	1.10763	565570.46	4191614.22	0.21681
565590.46	4191614.22	0.22925	565610.46	4191614.22	0.24292
565630.46	4191614.22	0.25743	565650.46	4191614.22	0.27325
565670.46	4191614.22	0.29055	565690.46	4191614.22	0.30968
565710.46	4191614.22	0.33109	565730.46	4191614.22	0.35543
565750.46	4191614.22	0.38160	565770.46	4191614.22	0.40985
565790.46	4191614.22	0.43997	565810.46	4191614.22	0.47205
565830.46	4191614.22	0.50708	565850.46	4191614.22	0.54747
565870.46	4191614.22	0.59397	565890.46	4191614.22	0.64406
565910.46	4191614.22	0.69322	565930.46	4191614.22	0.73662
565950.46	4191614.22	0.77534	565970.46	4191614.22	0.82094
565990.46	4191614.22	0.87519	566010.46	4191614.22	0.91941
566030.46	4191614.22	0.85593	566050.46	4191614.22	0.71630
566070.46	4191614.22	0.62761	566090.46	4191614.22	0.54207
566110.46	4191614.22	0.48150	566130.46	4191614.22	0.43795
566150.46	4191614.22	0.41615	566170.46	4191614.22	0.42628
566190.46	4191614.22	0.46290	566210.46	4191614.22	0.51632
566230.46	4191614.22	0.57411	566250.46	4191614.22	0.63217

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         566270.46    4191614.22        0.69513                      566290.46    4191614.22
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0.92575
         566350.46    4191614.22        1.01102                      566370.46    4191614.22
1.09678
         566390.46    4191614.22        1.17632                      566410.46    4191614.22
1.24422
         566430.46    4191614.22        1.29571                      566450.46    4191614.22
1.32942
         566470.46    4191614.22        1.34525                      566490.46    4191614.22
1.34360
         566510.46    4191614.22        1.32647                      566530.46    4191614.22
1.29758
         566550.46    4191614.22        1.25993                      566570.46    4191614.22
1.21700
         565570.46    4191634.22        0.21893                      565590.46    4191634.22
0.23172
         565610.46    4191634.22        0.24591                      565630.46    4191634.22
0.26119
         565650.46    4191634.22        0.27757                      565670.46    4191634.22
0.29565
         565690.46    4191634.22        0.31594                      565710.46    4191634.22
0.33895
         565730.46    4191634.22        0.36449                      565750.46    4191634.22
0.39264
         565770.46    4191634.22        0.42342                      565790.46    4191634.22
0.45677
         565810.46    4191634.22        0.49328                      565830.46    4191634.22
0.53520
         565850.46    4191634.22        0.58664                      565870.46    4191634.22
0.64272
         565890.46    4191634.22        0.70057                      565910.46    4191634.22
0.75662
         565930.46    4191634.22        0.80882                      565950.46    4191634.22
0.86578
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      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 207
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
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1.00645
         566010.46    4191634.22        1.06589                      566030.46    4191634.22
1.01466
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566130.46 4191634.22 0.53139 566150.46 4191634.22
0.49740
566170.46 4191634.22 0.50625 566190.46 4191634.22
0.55432
566210.46 4191634.22 0.62509 566230.46 4191634.22
0.70320
566250.46 4191634.22 0.78618 566270.46 4191634.22
0.88032
566290.46 4191634.22 0.98895 566310.46 4191634.22
1.09968
566330.46 4191634.22 1.20938 566350.46 4191634.22
1.31500
566370.46 4191634.22 1.41202 566390.46 4191634.22
1.49371
565570.46 4191654.22 0.22100 565590.46 4191654.22
0.23419
565610.46 4191654.22 0.24883 565630.46 4191654.22
0.26461
565650.46 4191654.22 0.28168 565670.46 4191654.22
0.30074
565690.46 4191654.22 0.32228 565710.46 4191654.22
0.34648
565730.46 4191654.22 0.37323 565750.46 4191654.22
0.40323
565770.46 4191654.22 0.43691 565790.46 4191654.22
0.47470
565810.46 4191654.22 0.51736 565830.46 4191654.22
0.56637
566010.46 4191654.22 1.23279 566030.46 4191654.22
1.27044
566050.46 4191654.22 1.17854 566070.46 4191654.22
1.05601
566090.46 4191654.22 0.89394 566110.46 4191654.22
0.76453
566130.46 4191654.22 0.68183 566150.46 4191654.22
0.63570
566170.46 4191654.22 0.63941 566190.46 4191654.22
0.69901
566210.46 4191654.22 0.79337 566230.46 4191654.22
0.90380
566250.46 4191654.22 1.02858 566270.46 4191654.22
1.17400
566290.46 4191654.22 1.33040 566310.46 4191654.22
1.47860
565570.46 4191674.22 0.22325 565590.46 4191674.22
0.23675
565610.46 4191674.22 0.25167 565630.46 4191674.22
0.26787
565650.46 4191674.22 0.28564 565670.46 4191674.22
0.30565
565690.46 4191674.22 0.32822 565710.46 4191674.22
0.35343
565730.46 4191674.22 0.38138 566010.46 4191674.22
1.41539
566030.46 4191674.22 1.51649 566050.46 4191674.22
1.57964
566070.46 4191674.22 1.51643 566090.46 4191674.22

1.30032
566110.46 4191674.22 1.06653 566130.46 4191674.22
0.93480
566150.46 4191674.22 0.87614 566170.46 4191674.22
0.86880
566190.46 4191674.22 0.93898 566210.46 4191674.22
1.06966
566230.46 4191674.22 1.23733 566250.46 4191674.22
1.43761
566270.46 4191674.22 1.66944 566290.46 4191674.22
1.87387
565570.46 4191694.22 0.22592 565590.46 4191694.22
0.23968
565610.46 4191694.22 0.25455 565630.46 4191694.22
0.27112

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565650.46	4191694.22	0.28964	565670.46	4191694.22	0.31035
565690.46	4191694.22	0.33353	565710.46	4191694.22	0.35954
565730.46	4191694.22	0.38855	566050.46	4191694.22	1.91469
566070.46	4191694.22	2.05523	566090.46	4191694.22	1.93325
566110.46	4191694.22	1.64415	566130.46	4191694.22	1.38017
566150.46	4191694.22	1.25690	566170.46	4191694.22	1.23807
566190.46	4191694.22	1.33058	566210.46	4191694.22	1.53337
566230.46	4191694.22	1.82028	566250.46	4191694.22	2.15293
566270.46	4191694.22	2.45923	565570.46	4191714.22	0.22826
565590.46	4191714.22	0.24254	565610.46	4191714.22	0.25813
565630.46	4191714.22	0.27504	565650.46	4191714.22	0.29397
565670.46	4191714.22	0.31511	565690.46	4191714.22	0.33884
565710.46	4191714.22	0.36539	565730.46	4191714.22	

0.39531
566070.46 4191714.22 2.54655 566090.46 4191714.22
2.77882
566110.46 4191714.22 2.61894 566130.46 4191714.22
2.27068
566150.46 4191714.22 1.95859 566170.46 4191714.22
1.87950
566190.46 4191714.22 2.00752 565570.46 4191734.22
0.23051
565590.46 4191734.22 0.24538 565610.46 4191734.22
0.26197
565630.46 4191734.22 0.27913 565650.46 4191734.22
0.29844
565670.46 4191734.22 0.32016 565690.46 4191734.22
0.34425
565710.46 4191734.22 0.37113 566110.46 4191734.22
4.18186
566130.46 4191734.22 4.36492 566150.46 4191734.22
3.42583
566170.46 4191734.22 3.11168 566190.46 4191734.22
3.28480
565570.46 4191754.22 0.23285 565590.46 4191754.22
0.24819
565610.46 4191754.22 0.26508 565630.46 4191754.22
0.28237
565650.46 4191754.22 0.30290 565670.46 4191754.22
0.32560
565690.46 4191754.22 0.35020 565710.46 4191754.22
0.37721
566130.46 4191754.22 6.89707 566150.46 4191754.22
6.57069
566170.46 4191754.22 6.03961 566190.46 4191754.22
6.48008
565570.46 4191774.22 0.23513 565590.46 4191774.22
0.25053
565610.46 4191774.22 0.26768 565630.46 4191774.22
0.28553
565650.46 4191774.22 0.30710 565670.46 4191774.22
0.33097
565690.46 4191774.22 0.35649 565710.46 4191774.22
0.38411
566170.46 4191774.22 14.88049 566190.46 4191774.22
17.03555
565570.46 4191794.22 0.23740 565590.46 4191794.22
0.25271
565610.46 4191794.22 0.27009 565630.46 4191794.22
0.28872
565650.46 4191794.22 0.31124 565670.46 4191794.22
0.33637
565690.46 4191794.22 0.36317 565710.46 4191794.22
0.39175
565570.46 4191814.22 0.23943 565590.46 4191814.22
0.25525
565610.46 4191814.22 0.27311 565630.46 4191814.22
0.29188

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565650.46	4191814.22	0.31546	565670.46	4191814.22	0.34158
565690.46	4191814.22	0.36913	565710.46	4191814.22	0.39836
565570.46	4191834.22	0.24148	565590.46	4191834.22	0.25782
565610.46	4191834.22	0.27607	565630.46	4191834.22	0.29525
565650.46	4191834.22	0.31904	565670.46	4191834.22	0.34548
565690.46	4191834.22	0.37382	565710.46	4191834.22	0.40438
565570.46	4191854.22	0.24357	565590.46	4191854.22	0.26046
565610.46	4191854.22	0.27902	565630.46	4191854.22	0.29890
565650.46	4191854.22	0.32216	565670.46	4191854.22	0.34827
565690.46	4191854.22	0.37738	565710.46	4191854.22	0.40984
565570.46	4191874.22	0.24587	565590.46	4191874.22	0.26324
565610.46	4191874.22	0.28211	565630.46	4191874.22	0.30300
565650.46	4191874.22	0.32697	565670.46	4191874.22	0.35395
565690.46	4191874.22	0.38415	565710.46	4191874.22	0.41794
565570.46	4191894.22	0.24879	565590.46	4191894.22	0.26665
565610.46	4191894.22	0.28612	565630.46	4191894.22	0.30800
565650.46	4191894.22	0.33265	565670.46	4191894.22	0.36052
565690.46	4191894.22	0.39179	565710.46	4191894.22	0.42668
565570.46	4191914.22	0.25234	565590.46	4191914.22	0.27076
565610.46	4191914.22	0.29117	565630.46	4191914.22	0.31404
565650.46	4191914.22	0.33927	565670.46	4191914.22	0.36808
565690.46	4191914.22	0.40030	565710.46	4191914.22	0.43589
565570.46	4191934.22	0.25793	565590.46	4191934.22	0.27714

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565610.46	4191934.22	0.29827	565630.46	4191934.22	0.32145
565650.46	4191934.22	0.34687	565670.46	4191934.22	0.37570
565690.46	4191934.22	0.40818	565710.46	4191934.22	0.44476
565570.46	4191954.22	0.26436	565590.46	4191954.22	0.28442
565610.46	4191954.22	0.30636	565630.46	4191954.22	0.32973
565650.46	4191954.22	0.35548	565670.46	4191954.22	0.38429
565690.46	4191954.22	0.41709	565710.46	4191954.22	0.45497
565570.46	4191974.22	0.27174	565590.46	4191974.22	0.29266
565610.46	4191974.22	0.31549	565630.46	4191974.22	0.33913
565650.46	4191974.22	0.36546	565670.46	4191974.22	0.39446
565690.46	4191974.22	0.42786	565710.46	4191974.22	0.46768
565570.46	4191994.22	0.27845	565590.46	4191994.22	0.30034
565610.46	4191994.22	0.32454	565630.46	4191994.22	0.35009
565650.46	4191994.22	0.37729	565670.46	4191994.22	0.40768
565690.46	4191994.22	0.44268	565710.46	4191994.22	0.48399
565570.46	4192014.22	0.28439	565590.46	4192014.22	0.30679
565610.46	4192014.22	0.33255	565630.46	4192014.22	0.36096
565650.46	4192014.22	0.38897	565670.46	4192014.22	0.42045
565690.46	4192014.22	0.45683	565710.46	4192014.22	0.49972
565570.46	4192034.22	0.28885	565590.46	4192034.22	0.31076

565610.46 4192034.22 0.33844 565630.46 4192034.22
0.37091
565650.46 4192034.22 0.39944 565670.46 4192034.22
0.43076
565690.46 4192034.22 0.46763 565710.46 4192034.22
0.51254
565570.46 4192054.22 0.29430 565590.46 4192054.22
0.31641
565610.46 4192054.22 0.34450 565630.46 4192054.22
0.37773
565650.46 4192054.22 0.40737 565670.46 4192054.22
0.44006
565690.46 4192054.22 0.47859 565570.46 4192074.22
0.30064
565590.46 4192074.22 0.32328 565610.46 4192074.22
0.35081
565630.46 4192074.22 0.38280 565650.46 4192074.22
0.41331
565670.46 4192074.22 0.44720 565690.46 4192074.22
0.48609
565570.46 4192094.22 0.30896 565590.46 4192094.22
0.33254
565610.46 4192094.22 0.35812 565630.46 4192094.22
0.38645
565650.46 4192094.22 0.41731 565570.46 4192114.22
0.31310
565590.46 4192114.22 0.33691 565610.46 4192114.22
0.36188
565630.46 4192114.22 0.38910 565650.46 4192114.22
0.41964
565570.46 4192134.22 0.31519 565590.46 4192134.22
0.33897
565610.46 4192134.22 0.36376 565630.46 4192134.22
0.39062
565570.46 4192154.22 0.31613 565590.46 4192154.22
0.34000
565610.46 4192154.22 0.36487 565630.46 4192154.22
0.39111
565570.46 4192174.22 0.31800 565590.46 4192174.22
0.34118
565610.46 4192174.22 0.36505 565630.46 4192174.22
0.38721
565690.46 4192174.22 0.46069 565710.46 4192174.22
0.46353
565730.46 4192174.22 0.46891 565750.46 4192174.22
0.48312
565770.46 4192174.22 0.48842 565790.46 4192174.22
0.48535
565810.46 4192174.22 0.49384 565570.46 4192194.22
0.31967
565590.46 4192194.22 0.34140 565610.46 4192194.22
0.36183
565630.46 4192194.22 0.39367 565650.46 4192194.22
0.41588
565670.46 4192194.22 0.42435 565690.46 4192194.22
0.42142
565710.46 4192194.22 0.41958 565730.46 4192194.22
0.42711
565750.46 4192194.22 0.43897 565770.46 4192194.22
0.45777
565790.46 4192194.22 0.47015 565810.46 4192194.22

0.47999
565570.46 4192214.22 0.32042 565590.46 4192214.22
0.33881
565610.46 4192214.22 0.36812 565630.46 4192214.22
0.38640
565650.46 4192214.22 0.38934 565670.46 4192214.22
0.38246
565690.46 4192214.22 0.37907 565710.46 4192214.22
0.38140
565730.46 4192214.22 0.38700 565750.46 4192214.22
0.39843
565770.46 4192214.22 0.41622 565790.46 4192214.22
0.43491

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565810.46	4192214.22	0.45108	565570.46	4192234.22	0.31807
565590.46	4192234.22	0.34402	565610.46	4192234.22	0.36451
565630.46	4192234.22	0.36580	565650.46	4192234.22	0.35504
565670.46	4192234.22	0.34785	565690.46	4192234.22	0.34899
565710.46	4192234.22	0.35392	565730.46	4192234.22	0.36070
565750.46	4192234.22	0.37210	565770.46	4192234.22	0.38691
565790.46	4192234.22	0.40364	565810.46	4192234.22	0.41981
566610.64	4191596.95	1.05815	566594.96	4191572.56	0.99104
566676.84	4191551.66	0.85969	566582.76	4191498.52	0.78413
566607.15	4191478.49	0.73074	566639.38	4191459.32	0.64760
566587.99	4191437.55	0.55773	566635.90	4191431.45	0.53637
566616.73	4191406.19	0.44205	566600.18	4191377.44	0.35148
566633.29	4191315.60	0.24456	566669.00	4191327.79	0.27476
566868.47	4191523.78	0.53055	566871.96	4191416.64	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565570.46	4191234.22	0.11923	565590.46	4191234.22	0.12315
565610.46	4191234.22	0.12715	565630.46	4191234.22	0.13114
565650.46	4191234.22	0.13516	565670.46	4191234.22	0.13923
565690.46	4191234.22	0.14333	565710.46	4191234.22	0.14743
565730.46	4191234.22	0.15154	565750.46	4191234.22	0.15561
565770.46	4191234.22	0.15969	565790.46	4191234.22	0.16372
565810.46	4191234.22	0.16754	565830.46	4191234.22	0.17120
565850.46	4191234.22	0.17499	565870.46	4191234.22	0.17880
565890.46	4191234.22	0.18247	565910.46	4191234.22	0.18594
565930.46	4191234.22	0.18936	565950.46	4191234.22	0.19304
565970.46	4191234.22	0.19674	565990.46	4191234.22	0.20052
566010.46	4191234.22	0.20449	566030.46	4191234.22	0.20879
566050.46	4191234.22	0.21351	566070.46	4191234.22	0.21813
566090.46	4191234.22	0.22264	566110.46	4191234.22	0.22714
566130.46	4191234.22	0.23172	566150.46	4191234.22	0.23636

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         566170.46    4191234.22       0.24140                    566190.46    4191234.22
0.24616
         566210.46    4191234.22       0.25044                    566230.46    4191234.22
0.25401
         566250.46    4191234.22       0.25246                    566270.46    4191234.22
0.22409
         566290.46    4191234.22       0.20653                    566310.46    4191234.22
0.19205
         566330.46    4191234.22       0.17667                    566350.46    4191234.22
0.16497
         566370.46    4191234.22       0.15779                    566390.46    4191234.22
0.15299
         566410.46    4191234.22       0.14933                    566430.46    4191234.22
0.14704
         566450.46    4191234.22       0.14611                    566470.46    4191234.22
0.14621
         566490.46    4191234.22       0.14832                    566510.46    4191234.22
0.15257
         566530.46    4191234.22       0.15750                    566550.46    4191234.22
0.16304
         566570.46    4191234.22       0.16893                    565570.46    4191254.22
0.12305
         565590.46    4191254.22       0.12735                    565610.46    4191254.22
0.13165
         565630.46    4191254.22       0.13597                    565650.46    4191254.22
0.14037
         565670.46    4191254.22       0.14484                    565690.46    4191254.22
0.14936
         565710.46    4191254.22       0.15389                    565730.46    4191254.22
0.15844
         565750.46    4191254.22       0.16298                    565770.46    4191254.22
0.16754
         565790.46    4191254.22       0.17206                    565810.46    4191254.22
0.17642
         565830.46    4191254.22       0.18071                    565850.46    4191254.22
0.18501
         565870.46    4191254.22       0.18934                    565890.46    4191254.22
0.19357
         565910.46    4191254.22       0.19758                    565930.46    4191254.22
0.20148
         565950.46    4191254.22       0.20553                    565970.46    4191254.22
0.20960
         565990.46    4191254.22       0.21371                    566010.46    4191254.22
0.21802
         566030.46    4191254.22       0.22277                    566050.46    4191254.22
0.22823
         566070.46    4191254.22       0.23353                    566090.46    4191254.22
0.23862
         566110.46    4191254.22       0.24368                    566130.46    4191254.22
0.24888
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 213
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
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L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,
L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,
L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566150.46	4191254.22	0.25421	566170.46	4191254.22	0.25951
566190.46	4191254.22	0.26439	566210.46	4191254.22	0.26884
566230.46	4191254.22	0.27263	566250.46	4191254.22	0.26569
566270.46	4191254.22	0.23041	566290.46	4191254.22	0.21520
566310.46	4191254.22	0.19962	566330.46	4191254.22	0.18447
566350.46	4191254.22	0.17405	566370.46	4191254.22	0.16756
566390.46	4191254.22	0.16213	566410.46	4191254.22	0.15785
566430.46	4191254.22	0.15548	566450.46	4191254.22	0.15494
566470.46	4191254.22	0.15566	566490.46	4191254.22	0.15845
566510.46	4191254.22	0.16289	566530.46	4191254.22	0.16810
566550.46	4191254.22	0.17401	566570.46	4191254.22	0.18011
565570.46	4191274.22	0.12696	565590.46	4191274.22	0.13164
565610.46	4191274.22	0.13627	565630.46	4191274.22	0.14097
565650.46	4191274.22	0.14580	565670.46	4191274.22	0.15072
565690.46	4191274.22	0.15569	565710.46	4191274.22	0.16068
565730.46	4191274.22	0.16572	565750.46	4191274.22	0.17078
565770.46	4191274.22	0.17586	565790.46	4191274.22	0.18093
565810.46	4191274.22	0.18593	565830.46	4191274.22	0.19097
565850.46	4191274.22	0.19586	565870.46	4191274.22	0.20081
565890.46	4191274.22	0.20569	565910.46	4191274.22	0.21034
565930.46	4191274.22	0.21485	565950.46	4191274.22	0.21936
565970.46	4191274.22	0.22384	565990.46	4191274.22	0.22829

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        566010.46    4191274.22        0.23287                    566030.46    4191274.22
0.23797
        566050.46    4191274.22        0.24422                    566070.46    4191274.22
0.25030
        566090.46    4191274.22        0.25611                    566110.46    4191274.22
0.26189
        566130.46    4191274.22        0.26788                    566150.46    4191274.22
0.27404
        566170.46    4191274.22        0.27956                    566190.46    4191274.22
0.28448
        566210.46    4191274.22        0.28917                    566230.46    4191274.22
0.29317
        566250.46    4191274.22        0.27473                    566270.46    4191274.22
0.23995
        566290.46    4191274.22        0.22651                    566310.46    4191274.22
0.21127
        566330.46    4191274.22        0.19644                    566350.46    4191274.22
0.18644
        566370.46    4191274.22        0.18046                    566390.46    4191274.22
0.17453
        566410.46    4191274.22        0.16992                    566430.46    4191274.22
0.16773
        566450.46    4191274.22        0.16798                    566470.46    4191274.22
0.17003
        566490.46    4191274.22        0.17371                    566510.46    4191274.22
0.17811
        566530.46    4191274.22        0.18280                    566550.46    4191274.22
0.18811
        566570.46    4191274.22        0.19403                    565570.46    4191294.22
0.13096
        565590.46    4191294.22        0.13603                    565610.46    4191294.22
0.14105
        565630.46    4191294.22        0.14620                    565650.46    4191294.22
0.15152
        565670.46    4191294.22        0.15694                    565690.46    4191294.22
0.16242
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     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE 214
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

CONC

565710.46	4191294.22	0.16791	565730.46	4191294.22	0.17354
565750.46	4191294.22	0.17917	565770.46	4191294.22	0.18481
565790.46	4191294.22	0.19047	565810.46	4191294.22	0.19619
565830.46	4191294.22	0.20203	565850.46	4191294.22	0.20766
565870.46	4191294.22	0.21338	565890.46	4191294.22	0.21904
565910.46	4191294.22	0.22446	565930.46	4191294.22	0.22987
565950.46	4191294.22	0.23513	565970.46	4191294.22	0.24006
565990.46	4191294.22	0.24482	566010.46	4191294.22	0.24966
566030.46	4191294.22	0.25495	566050.46	4191294.22	0.26141
566070.46	4191294.22	0.26823	566090.46	4191294.22	0.27492
566110.46	4191294.22	0.28170	566130.46	4191294.22	0.28874
566150.46	4191294.22	0.29588	566170.46	4191294.22	0.30180
566190.46	4191294.22	0.30696	566210.46	4191294.22	0.31195
566230.46	4191294.22	0.31590	566250.46	4191294.22	0.29476
566270.46	4191294.22	0.25700	566290.46	4191294.22	0.24244
566310.46	4191294.22	0.22810	566330.46	4191294.22	0.21446
566350.46	4191294.22	0.20446	566370.46	4191294.22	0.19823
566390.46	4191294.22	0.19237	566410.46	4191294.22	0.18833
566430.46	4191294.22	0.18658	566450.46	4191294.22	0.18712
566470.46	4191294.22	0.18953	566490.46	4191294.22	0.19403
566510.46	4191294.22	0.19846	566530.46	4191294.22	0.20353
566550.46	4191294.22	0.20960	566570.46	4191294.22	0.21624
565570.46	4191314.22	0.13497	565590.46	4191314.22	0.14042
565610.46	4191314.22	0.14596	565630.46	4191314.22	0.15167
565650.46	4191314.22	0.15752	565670.46	4191314.22	0.16345
565690.46	4191314.22	0.16946	565710.46	4191314.22	0.17555
565730.46	4191314.22	0.18184	565750.46	4191314.22	0.18813
565770.46	4191314.22	0.19446	565790.46	4191314.22	0.20084
565810.46	4191314.22	0.20728	565830.46	4191314.22	0.21391

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         565850.46    4191314.22        0.22048                      565870.46    4191314.22
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         565890.46    4191314.22        0.23357                      565910.46    4191314.22
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         565930.46    4191314.22        0.24643                      565950.46    4191314.22
0.25250
         565970.46    4191314.22        0.25813                      565990.46    4191314.22
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         566010.46    4191314.22        0.26885                      566030.46    4191314.22
0.27452
         566050.46    4191314.22        0.28093                      566070.46    4191314.22
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         566090.46    4191314.22        0.29607                      566110.46    4191314.22
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         566130.46    4191314.22        0.31185                      566150.46    4191314.22
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         566170.46    4191314.22        0.32670                      566190.46    4191314.22
0.33234
         566210.46    4191314.22        0.33768                      566230.46    4191314.22
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         566250.46    4191314.22        0.31869                      566270.46    4191314.22
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      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 215
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
         566290.46    4191314.22        0.26425                      566310.46    4191314.22
0.25080
         566330.46    4191314.22        0.23818                      566350.46    4191314.22
0.22804
         566370.46    4191314.22        0.22116                      566390.46    4191314.22
0.21514
         566410.46    4191314.22        0.21156                      566430.46    4191314.22
0.20969
         566450.46    4191314.22        0.20963                      566470.46    4191314.22
0.21164
         566490.46    4191314.22        0.21701                      566510.46    4191314.22
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0.22213
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565590.46 4191334.22 0.14483 565610.46 4191334.22
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565630.46 4191334.22 0.15724 565650.46 4191334.22
0.16367
565670.46 4191334.22 0.17017 565690.46 4191334.22
0.17678
565710.46 4191334.22 0.18356 565730.46 4191334.22
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565750.46 4191334.22 0.19762 565770.46 4191334.22
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565790.46 4191334.22 0.21197 565810.46 4191334.22
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565870.46 4191334.22 0.24199 565890.46 4191334.22
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565950.46 4191334.22 0.27172 565970.46 4191334.22
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566070.46 4191334.22 0.31106 566090.46 4191334.22
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566150.46 4191334.22 0.34684 566170.46 4191334.22
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566190.46 4191334.22 0.36108 566210.46 4191334.22
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566230.46 4191334.22 0.36806 566250.46 4191334.22
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566270.46 4191334.22 0.30924 566290.46 4191334.22
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566310.46 4191334.22 0.28155 566330.46 4191334.22
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566350.46 4191334.22 0.26088 566370.46 4191334.22
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566390.46 4191334.22 0.24596 566410.46 4191334.22
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566470.46 4191334.22 0.23566 566490.46 4191334.22
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566510.46 4191334.22 0.24902 566530.46 4191334.22
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566550.46 4191334.22 0.26597 566570.46 4191334.22
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565570.46 4191354.22 0.14296 565590.46 4191354.22
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565610.46 4191354.22 0.15578 565630.46 4191354.22
0.16266
565650.46 4191354.22 0.16972 565670.46 4191354.22
0.17692

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565690.46	4191354.22	0.18428	565710.46	4191354.22	0.19192
565730.46	4191354.22	0.19976	565750.46	4191354.22	0.20762
565770.46	4191354.22	0.21567	565790.46	4191354.22	0.22385
565810.46	4191354.22	0.23203	565830.46	4191354.22	0.24045
565850.46	4191354.22	0.24935	565870.46	4191354.22	0.25834
565890.46	4191354.22	0.26707	565910.46	4191354.22	0.27559
565930.46	4191354.22	0.28453	565950.46	4191354.22	0.29290
565970.46	4191354.22	0.30079	565990.46	4191354.22	0.30833
566010.46	4191354.22	0.31571	566030.46	4191354.22	0.32306
566050.46	4191354.22	0.33060	566070.46	4191354.22	0.33847
566090.46	4191354.22	0.34771	566110.46	4191354.22	0.35813
566130.46	4191354.22	0.36866	566150.46	4191354.22	0.37793
566170.46	4191354.22	0.38520	566190.46	4191354.22	0.39282
566210.46	4191354.22	0.39978	566230.46	4191354.22	0.39461
566250.46	4191354.22	0.37018	566270.46	4191354.22	0.34024
566290.46	4191354.22	0.32762	566310.46	4191354.22	0.31671
566330.46	4191354.22	0.30511	566350.46	4191354.22	

0.29368
566370.46 4191354.22 0.28488 566390.46 4191354.22
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566410.46 4191354.22 0.27155 566430.46 4191354.22
0.26685
566450.46 4191354.22 0.26376 566470.46 4191354.22
0.26430
566490.46 4191354.22 0.27181 566510.46 4191354.22
0.28159
566530.46 4191354.22 0.29189 566550.46 4191354.22
0.30096
566570.46 4191354.22 0.30760 565570.46 4191374.22
0.14698
565590.46 4191374.22 0.15370 565610.46 4191374.22
0.16070
565630.46 4191374.22 0.16812 565650.46 4191374.22
0.17586
565670.46 4191374.22 0.18385 565690.46 4191374.22
0.19208
565710.46 4191374.22 0.20058 565730.46 4191374.22
0.20929
565750.46 4191374.22 0.21813 565770.46 4191374.22
0.22720
565790.46 4191374.22 0.23645 565810.46 4191374.22
0.24579
565830.46 4191374.22 0.25538 565850.46 4191374.22
0.26562
565870.46 4191374.22 0.27609 565890.46 4191374.22
0.28628
565910.46 4191374.22 0.29617 565930.46 4191374.22
0.30657
565950.46 4191374.22 0.31659 565970.46 4191374.22
0.32608
565990.46 4191374.22 0.33534 566010.46 4191374.22
0.34438
566030.46 4191374.22 0.35321 566050.46 4191374.22
0.36236
566070.46 4191374.22 0.37135 566090.46 4191374.22
0.38248
566110.46 4191374.22 0.39514 566130.46 4191374.22
0.40705
566150.46 4191374.22 0.41597 566170.46 4191374.22
0.42224
566190.46 4191374.22 0.42954 566210.46 4191374.22
0.43719
566230.46 4191374.22 0.42727 566250.46 4191374.22
0.39651
566270.46 4191374.22 0.37362 566290.46 4191374.22
0.36330
566310.46 4191374.22 0.35410 566330.46 4191374.22
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566350.46 4191374.22 0.33062 566370.46 4191374.22
0.32172
566390.46 4191374.22 0.31429 566410.46 4191374.22
0.30806

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566430.46	4191374.22	0.30303	566450.46	4191374.22	0.30000
566470.46	4191374.22	0.30115	566490.46	4191374.22	0.30996
566510.46	4191374.22	0.32187	566530.46	4191374.22	0.33331
566550.46	4191374.22	0.34222	566570.46	4191374.22	0.34783
565570.46	4191394.22	0.15102	565590.46	4191394.22	0.15818
565610.46	4191394.22	0.16568	565630.46	4191394.22	0.17365
565650.46	4191394.22	0.18209	565670.46	4191394.22	0.19094
565690.46	4191394.22	0.20014	565710.46	4191394.22	0.20955
565730.46	4191394.22	0.21918	565750.46	4191394.22	0.22915
565770.46	4191394.22	0.23935	565790.46	4191394.22	0.24980
565810.46	4191394.22	0.26053	565830.46	4191394.22	0.27149
565850.46	4191394.22	0.28327	565870.46	4191394.22	0.29537
565890.46	4191394.22	0.30724	565910.46	4191394.22	0.31887
565930.46	4191394.22	0.33109	565950.46	4191394.22	0.34311
565970.46	4191394.22	0.35456	565990.46	4191394.22	0.36607
566010.46	4191394.22	0.37742	566030.46	4191394.22	0.38818
566050.46	4191394.22	0.39927	566070.46	4191394.22	0.41100
566090.46	4191394.22	0.42577	566110.46	4191394.22	0.44064
566130.46	4191394.22	0.45206	566150.46	4191394.22	0.45887
566170.46	4191394.22	0.46637	566190.46	4191394.22	

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566290.46 4191394.22 0.39880 566310.46 4191394.22
0.39115
566330.46 4191394.22 0.38179 566350.46 4191394.22
0.37210
566370.46 4191394.22 0.36530 566390.46 4191394.22
0.36006
566410.46 4191394.22 0.35743 566430.46 4191394.22
0.35405
566450.46 4191394.22 0.35174 566470.46 4191394.22
0.35256
566490.46 4191394.22 0.36164 566510.46 4191394.22
0.37357
566530.46 4191394.22 0.38398 566550.46 4191394.22
0.39160
566570.46 4191394.22 0.39677 565570.46 4191414.22
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565590.46 4191414.22 0.16269 565610.46 4191414.22
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565670.46 4191414.22 0.19826 565690.46 4191414.22
0.20842
565710.46 4191414.22 0.21884 565730.46 4191414.22
0.22956
565750.46 4191414.22 0.24073 565770.46 4191414.22
0.25215
565790.46 4191414.22 0.26389 565810.46 4191414.22
0.27613
565830.46 4191414.22 0.28899 565850.46 4191414.22
0.30231
565870.46 4191414.22 0.31621 565890.46 4191414.22
0.33008
565910.46 4191414.22 0.34379 565930.46 4191414.22
0.35807
565950.46 4191414.22 0.37256 565970.46 4191414.22
0.38630

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565990.46	4191414.22	0.40034	566010.46	4191414.22	0.41468
566030.46	4191414.22	0.42889	566050.46	4191414.22	0.44333
566070.46	4191414.22	0.45927	566090.46	4191414.22	0.47562
566110.46	4191414.22	0.48899	566130.46	4191414.22	0.47605
566150.46	4191414.22	0.43910	566170.46	4191414.22	0.45191
566190.46	4191414.22	0.49317	566210.46	4191414.22	0.50733
566230.46	4191414.22	0.50041	566250.46	4191414.22	0.46327
566270.46	4191414.22	0.44548	566290.46	4191414.22	0.43694
566310.46	4191414.22	0.43151	566330.46	4191414.22	0.42370
566350.46	4191414.22	0.41328	566370.46	4191414.22	0.40332
566390.46	4191414.22	0.40126	566410.46	4191414.22	0.40278
566430.46	4191414.22	0.40549	566450.46	4191414.22	0.40858
566470.46	4191414.22	0.41192	566490.46	4191414.22	0.42068
566510.46	4191414.22	0.43221	566530.46	4191414.22	0.44372
566550.46	4191414.22	0.45255	566570.46	4191414.22	0.45823
565570.46	4191434.22	0.15909	565590.46	4191434.22	0.16719
565610.46	4191434.22	0.17591	565630.46	4191434.22	0.18519
565650.46	4191434.22	0.19513	565670.46	4191434.22	0.20571
565690.46	4191434.22	0.21684	565710.46	4191434.22	0.22833
565730.46	4191434.22	0.24024	565750.46	4191434.22	0.25271
565770.46	4191434.22	0.26553	565790.46	4191434.22	0.27879
565810.46	4191434.22	0.29277	565830.46	4191434.22	0.30751
565850.46	4191434.22	0.32279	565870.46	4191434.22	0.33893
565890.46	4191434.22	0.35513	565910.46	4191434.22	0.37123
565930.46	4191434.22	0.38813	565950.46	4191434.22	0.40548
565970.46	4191434.22	0.42215	565990.46	4191434.22	0.43955
566010.46	4191434.22	0.45781	566030.46	4191434.22	

0.47643
566050.46 4191434.22 0.49493 566070.46 4191434.22
0.51352
566090.46 4191434.22 0.52910 566110.46 4191434.22
0.50457
566130.46 4191434.22 0.43234 566150.46 4191434.22
0.40652
566170.46 4191434.22 0.40711 566190.46 4191434.22
0.42899
566210.46 4191434.22 0.45737 566230.46 4191434.22
0.47694
566250.46 4191434.22 0.47829 566270.46 4191434.22
0.46769
566290.46 4191434.22 0.46228 566310.46 4191434.22
0.46107
566330.46 4191434.22 0.45817 566350.46 4191434.22
0.45019
566370.46 4191434.22 0.43913 566390.46 4191434.22
0.44171
566410.46 4191434.22 0.44764 566430.46 4191434.22
0.45780
566450.46 4191434.22 0.46867 566470.46 4191434.22
0.47724
566490.46 4191434.22 0.48624 566510.46 4191434.22
0.49712
566530.46 4191434.22 0.51081 566550.46 4191434.22
0.52250

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566570.46	4191434.22	0.52996	565570.46	4191454.22	0.16305
565590.46	4191454.22	0.17166	565610.46	4191454.22	0.18105
565630.46	4191454.22	0.19105	565650.46	4191454.22	0.20178

565670.46 4191454.22 0.21325 565690.46 4191454.22
0.22537
565710.46 4191454.22 0.23798 565730.46 4191454.22
0.25117
565750.46 4191454.22 0.26507 565770.46 4191454.22
0.27944
565790.46 4191454.22 0.29450 565810.46 4191454.22
0.31048
565830.46 4191454.22 0.32704 565850.46 4191454.22
0.34476
565870.46 4191454.22 0.36366 565890.46 4191454.22
0.38262
565910.46 4191454.22 0.40147 565930.46 4191454.22
0.42164
565950.46 4191454.22 0.44234 565970.46 4191454.22
0.46272
565990.46 4191454.22 0.48460 566010.46 4191454.22
0.50804
566030.46 4191454.22 0.53196 566050.46 4191454.22
0.55442
566070.46 4191454.22 0.57250 566090.46 4191454.22
0.54818
566110.46 4191454.22 0.46764 566130.46 4191454.22
0.42490
566150.46 4191454.22 0.39900 566170.46 4191454.22
0.39137
566190.46 4191454.22 0.40039 566210.46 4191454.22
0.41821
566230.46 4191454.22 0.44070 566250.46 4191454.22
0.45971
566270.46 4191454.22 0.45315 566290.46 4191454.22
0.45112
566310.46 4191454.22 0.45826 566330.46 4191454.22
0.46726
566350.46 4191454.22 0.47118 566370.46 4191454.22
0.46842
566390.46 4191454.22 0.47655 566410.46 4191454.22
0.48637
566430.46 4191454.22 0.49969 566450.46 4191454.22
0.51603
566470.46 4191454.22 0.53319 566490.46 4191454.22
0.54663
566510.46 4191454.22 0.55784 566530.46 4191454.22
0.57390
566550.46 4191454.22 0.59032 566570.46 4191454.22
0.60303
565570.46 4191474.22 0.16701 565590.46 4191474.22
0.17615
565610.46 4191474.22 0.18619 565630.46 4191474.22
0.19690
565650.46 4191474.22 0.20843 565670.46 4191474.22
0.22071
565690.46 4191474.22 0.23374 565710.46 4191474.22
0.24758
565730.46 4191474.22 0.26223 565750.46 4191474.22
0.27772
565770.46 4191474.22 0.29393 565790.46 4191474.22
0.31110
565810.46 4191474.22 0.32945 565830.46 4191474.22
0.34823
565850.46 4191474.22 0.36904 565870.46 4191474.22

0.39080
565890.46 4191474.22 0.41243 565910.46 4191474.22
0.43424
565930.46 4191474.22 0.45825 565950.46 4191474.22
0.48362
565970.46 4191474.22 0.50901 565990.46 4191474.22
0.53712
566010.46 4191474.22 0.56631 566030.46 4191474.22
0.59370
566050.46 4191474.22 0.61790 566070.46 4191474.22
0.61038
566090.46 4191474.22 0.52666 566110.46 4191474.22
0.47093

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566130.46	4191474.22	0.43160	566150.46	4191474.22	0.40549
566170.46	4191474.22	0.39474	566190.46	4191474.22	0.39817
566210.46	4191474.22	0.40902	566230.46	4191474.22	0.42690
566250.46	4191474.22	0.44692	566270.46	4191474.22	0.44679
566290.46	4191474.22	0.44759	566310.46	4191474.22	0.46002
566330.46	4191474.22	0.47973	566350.46	4191474.22	0.49986
566370.46	4191474.22	0.51188	566390.46	4191474.22	0.51934
566410.46	4191474.22	0.52722	566430.46	4191474.22	0.54062
566450.46	4191474.22	0.56008	566470.46	4191474.22	0.58303
566490.46	4191474.22	0.60137	566510.46	4191474.22	0.61288

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         566530.46    4191474.22       0.62999                    566550.46    4191474.22
0.64943
         566570.46    4191474.22       0.66669                    565570.46    4191494.22
0.17100
         565590.46    4191494.22       0.18069                    565610.46    4191494.22
0.19135
         565630.46    4191494.22       0.20272                    565650.46    4191494.22
0.21503
         565670.46    4191494.22       0.22820                    565690.46    4191494.22
0.24225
         565710.46    4191494.22       0.25741                    565730.46    4191494.22
0.27359
         565750.46    4191494.22       0.29075                    565770.46    4191494.22
0.30893
         565790.46    4191494.22       0.32841                    565810.46    4191494.22
0.34938
         565830.46    4191494.22       0.37077                    565850.46    4191494.22
0.39501
         565870.46    4191494.22       0.41999                    565890.46    4191494.22
0.44501
         565910.46    4191494.22       0.47085                    565930.46    4191494.22
0.49974
         565950.46    4191494.22       0.53045                    565970.46    4191494.22
0.56212
         565990.46    4191494.22       0.59714                    566010.46    4191494.22
0.63203
         566030.46    4191494.22       0.66307                    566050.46    4191494.22
0.68560
         566070.46    4191494.22       0.62361                    566090.46    4191494.22
0.53831
         566110.46    4191494.22       0.48179                    566130.46    4191494.22
0.44059
         566150.46    4191494.22       0.41673                    566170.46    4191494.22
0.40650
         566190.46    4191494.22       0.40832                    566210.46    4191494.22
0.41587
         566230.46    4191494.22       0.43021                    566250.46    4191494.22
0.44888
         566270.46    4191494.22       0.45594                    566290.46    4191494.22
0.45787
         566310.46    4191494.22       0.47202                    566330.46    4191494.22
0.49837
         566350.46    4191494.22       0.53183                    566370.46    4191494.22
0.56061
         566390.46    4191494.22       0.56852                    566410.46    4191494.22
0.57365
         566430.46    4191494.22       0.58510                    566450.46    4191494.22
0.60492
         566470.46    4191494.22       0.63066                    566490.46    4191494.22
0.65351
         566510.46    4191494.22       0.66538                    566530.46    4191494.22
0.68178
         566550.46    4191494.22       0.70199                    566570.46    4191494.22
0.72237
         565570.46    4191514.22       0.17500                    565590.46    4191514.22
0.18530
         565610.46    4191514.22       0.19652                    565630.46    4191514.22
0.20847
         565650.46    4191514.22       0.22156                    565670.46    4191514.22
0.23568
1 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)
CONC
 -
- - - - - - - - - - - - - -
        565690.46   4191514.22   0.25089   565710.46   4191514.22
0.26745
        565730.46   4191514.22   0.28522   565750.46   4191514.22
0.30413
        565770.46   4191514.22   0.32438   565790.46   4191514.22
0.34635
        565810.46   4191514.22   0.37018   565830.46   4191514.22
0.39464
        565850.46   4191514.22   0.42251   565870.46   4191514.22
0.45113
        565890.46   4191514.22   0.48067   565910.46   4191514.22
0.51224
        565930.46   4191514.22   0.54755   565950.46   4191514.22
0.58401
        565970.46   4191514.22   0.62351   565990.46   4191514.22
0.66530
        566010.46   4191514.22   0.70546   566030.46   4191514.22
0.74131
        566050.46   4191514.22   0.74916   566070.46   4191514.22
0.64390
        566090.46   4191514.22   0.55989   566110.46   4191514.22
0.49401
        566130.46   4191514.22   0.45087   566150.46   4191514.22
0.42919
        566170.46   4191514.22   0.42478   566190.46   4191514.22
0.42692
        566210.46   4191514.22   0.43115   566230.46   4191514.22
0.44091
        566250.46   4191514.22   0.45664   566270.46   4191514.22
0.47049
        566290.46   4191514.22   0.47307   566310.46   4191514.22
0.48565
        566330.46   4191514.22   0.51195   566350.46   4191514.22
0.55055

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         566370.46    4191514.22        0.59308                    566390.46    4191514.22
0.62070
         566410.46    4191514.22        0.63559                    566430.46    4191514.22
0.64533
         566450.46    4191514.22        0.65868                    566470.46    4191514.22
0.67962
         566490.46    4191514.22        0.70410                    566510.46    4191514.22
0.71857
         566530.46    4191514.22        0.73102                    566550.46    4191514.22
0.74655
         566570.46    4191514.22        0.76415                    565570.46    4191534.22
0.17888
         565590.46    4191534.22        0.18959                    565610.46    4191534.22
0.20121
         565630.46    4191534.22        0.21389                    565650.46    4191534.22
0.22774
         565670.46    4191534.22        0.24282                    565690.46    4191534.22
0.25925
         565710.46    4191534.22        0.27727                    565730.46    4191534.22
0.29676
         565750.46    4191534.22        0.31751                    565770.46    4191534.22
0.33992
         565790.46    4191534.22        0.36437                    565810.46    4191534.22
0.39099
         565830.46    4191534.22        0.41939                    565850.46    4191534.22
0.45117
         565870.46    4191534.22        0.48428                    565890.46    4191534.22
0.51926
         565910.46    4191534.22        0.55744                    565930.46    4191534.22
0.60044
         565950.46    4191534.22        0.64390                    565970.46    4191534.22
0.69026
         565990.46    4191534.22        0.73963                    566010.46    4191534.22
0.78873
         566030.46    4191534.22        0.83296                    566050.46    4191534.22
0.78659
         566070.46    4191534.22        0.67691                    566090.46    4191534.22
0.58349
         566110.46    4191534.22        0.51097                    566130.46    4191534.22
0.46847
         566150.46    4191534.22        0.45089                    566170.46    4191534.22
0.44877
         566190.46    4191534.22        0.45054                    566210.46    4191534.22
0.45407
         566230.46    4191534.22        0.46237                    566250.46    4191534.22
0.47616
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
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L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,
L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566270.46	4191534.22	0.49124	566290.46	4191534.22	0.49896
566310.46	4191534.22	0.51436	566330.46	4191534.22	0.54139
566350.46	4191534.22	0.58086	566370.46	4191534.22	0.62837
566390.46	4191534.22	0.66949	566410.46	4191534.22	0.69864
566430.46	4191534.22	0.71617	566450.46	4191534.22	0.73018
566470.46	4191534.22	0.74666	566490.46	4191534.22	0.76587
566510.46	4191534.22	0.77968	566530.46	4191534.22	0.78774
566550.46	4191534.22	0.79772	566570.46	4191534.22	0.81025
565570.46	4191554.22	0.18260	565590.46	4191554.22	0.19370
565610.46	4191554.22	0.20577	565630.46	4191554.22	0.21910
565650.46	4191554.22	0.23371	565670.46	4191554.22	0.24974
565690.46	4191554.22	0.26739	565710.46	4191554.22	0.28685
565730.46	4191554.22	0.30815	565750.46	4191554.22	0.33092
565770.46	4191554.22	0.35571	565790.46	4191554.22	0.38282
565810.46	4191554.22	0.41249	565830.46	4191554.22	0.44485
565850.46	4191554.22	0.48091	565870.46	4191554.22	0.51945
565890.46	4191554.22	0.56108	565910.46	4191554.22	0.60712
565930.46	4191554.22	0.65873	565950.46	4191554.22	0.71042
565970.46	4191554.22	0.76448	565990.46	4191554.22	0.82398
566010.46	4191554.22	0.88557	566030.46	4191554.22	0.92118
566050.46	4191554.22	0.81532	566070.46	4191554.22	0.71910
566090.46	4191554.22	0.61643	566110.46	4191554.22	0.54165
566130.46	4191554.22	0.49946	566150.46	4191554.22	0.48219
566170.46	4191554.22	0.47993	566190.46	4191554.22	0.48079

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         566210.46    4191554.22        0.48501                      566230.46    4191554.22
0.49390
         566250.46    4191554.22        0.50736                      566270.46    4191554.22
0.52287
         566290.46    4191554.22        0.53902                      566310.46    4191554.22
0.56089
         566330.46    4191554.22        0.59083                      566350.46    4191554.22
0.63013
         566370.46    4191554.22        0.67786                      566390.46    4191554.22
0.72689
         566410.46    4191554.22        0.77123                      566430.46    4191554.22
0.80236
         566450.46    4191554.22        0.82186                      566470.46    4191554.22
0.83480
         566490.46    4191554.22        0.84548                      566510.46    4191554.22
0.85543
         566530.46    4191554.22        0.85795                      566550.46    4191554.22
0.86080
         566570.46    4191554.22        0.86561                      565570.46    4191574.22
0.18612
         565590.46    4191574.22        0.19763                      565610.46    4191574.22
0.21022
         565630.46    4191574.22        0.22407                      565650.46    4191574.22
0.23940
         565670.46    4191574.22        0.25638                      565690.46    4191574.22
0.27516
         565710.46    4191574.22        0.29599                      565730.46    4191574.22
0.31925
         565750.46    4191574.22        0.34428                      565770.46    4191574.22
0.37166
         565790.46    4191574.22        0.40177                      565810.46    4191574.22
0.43481
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 223
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
         565830.46    4191574.22        0.47047                      565850.46    4191574.22
```

0.51115
565870.46 4191574.22 0.55640 565890.46 4191574.22
0.60643
565910.46 4191574.22 0.66166 565930.46 4191574.22
0.72196
565950.46 4191574.22 0.78296 565970.46 4191574.22
0.84610
565990.46 4191574.22 0.92082 566010.46 4191574.22
0.99957
566030.46 4191574.22 0.98880 566050.46 4191574.22
0.86782
566070.46 4191574.22 0.77568 566090.46 4191574.22
0.67536
566110.46 4191574.22 0.60318 566130.46 4191574.22
0.55900
566150.46 4191574.22 0.53486 566170.46 4191574.22
0.52807
566190.46 4191574.22 0.52666 566210.46 4191574.22
0.53267
566230.46 4191574.22 0.54538 566250.46 4191574.22
0.56338
566270.46 4191574.22 0.58464 566290.46 4191574.22
0.61096
566310.46 4191574.22 0.64288 566330.46 4191574.22
0.68096
566350.46 4191574.22 0.72514 566370.46 4191574.22
0.77378
566390.46 4191574.22 0.82319 566410.46 4191574.22
0.86897
566430.46 4191574.22 0.90501 566450.46 4191574.22
0.93003
566470.46 4191574.22 0.94533 566490.46 4191574.22
0.95312
566510.46 4191574.22 0.95537 566530.46 4191574.22
0.95067
566550.46 4191574.22 0.94335 566570.46 4191574.22
0.93474
565570.46 4191594.22 0.18950 565590.46 4191594.22
0.20155
565610.46 4191594.22 0.21483 565630.46 4191594.22
0.22926
565650.46 4191594.22 0.24522 565670.46 4191594.22
0.26292
565690.46 4191594.22 0.28261 565710.46 4191594.22
0.30467
565730.46 4191594.22 0.32982 565750.46 4191594.22
0.35717
565770.46 4191594.22 0.38730 565790.46 4191594.22
0.42046
565810.46 4191594.22 0.45687 565830.46 4191594.22
0.49694
565850.46 4191594.22 0.54323 565870.46 4191594.22
0.59682
565890.46 4191594.22 0.65710 565910.46 4191594.22
0.72264
565930.46 4191594.22 0.79160 565950.46 4191594.22
0.86204
565970.46 4191594.22 0.94005 565990.46 4191594.22
1.03429
566010.46 4191594.22 1.13270 566030.46 4191594.22
1.07410

```
        566050.46    4191594.22        0.94901                      566070.46    4191594.22
0.86317
        566090.46    4191594.22        0.76343                      566110.46    4191594.22
0.68652
        566130.46    4191594.22        0.63365                      566150.46    4191594.22
0.60045
        566170.46    4191594.22        0.58923                      566190.46    4191594.22
0.58829
        566210.46    4191594.22        0.59854                      566230.46    4191594.22
0.61758
        566250.46    4191594.22        0.64368                      566270.46    4191594.22
0.67672
        566290.46    4191594.22        0.71836                      566310.46    4191594.22
0.76452
        566330.46    4191594.22        0.81393                      566350.46    4191594.22
0.86598
        566370.46    4191594.22        0.91956                      566390.46    4191594.22
0.97134
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 224
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                             *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
        566410.46    4191594.22        1.01715                      566430.46    4191594.22
1.05237
        566450.46    4191594.22        1.07559                      566470.46    4191594.22
1.08702
        566490.46    4191594.22        1.08755                      566510.46    4191594.22
1.07913
        566530.46    4191594.22        1.06333                      566550.46    4191594.22
1.04280
        566570.46    4191594.22        1.01934                      565570.46    4191614.22
0.19272
        565590.46    4191614.22        0.20530                      565610.46    4191614.22
0.21926
        565630.46    4191614.22        0.23434                      565650.46    4191614.22
0.25095
        565670.46    4191614.22        0.26937                      565690.46    4191614.22
```

0.29001
565710.46 4191614.22 0.31340 565730.46 4191614.22
0.34024
565750.46 4191614.22 0.36988 565770.46 4191614.22
0.40276
565790.46 4191614.22 0.43901 565810.46 4191614.22
0.47911
565830.46 4191614.22 0.52445 565850.46 4191614.22
0.57790
565870.46 4191614.22 0.64092 565890.46 4191614.22
0.71208
565910.46 4191614.22 0.78851 565930.46 4191614.22
0.86710
565950.46 4191614.22 0.94969 565970.46 4191614.22
1.04834
565990.46 4191614.22 1.16656 566010.46 4191614.22
1.28828
566030.46 4191614.22 1.20584 566050.46 4191614.22
1.06624
566070.46 4191614.22 0.98676 566090.46 4191614.22
0.88597
566110.46 4191614.22 0.79777 566130.46 4191614.22
0.72963
566150.46 4191614.22 0.68419 566170.46 4191614.22
0.66833
566190.46 4191614.22 0.67085 566210.46 4191614.22
0.68878
566230.46 4191614.22 0.71774 566250.46 4191614.22
0.75677
566270.46 4191614.22 0.80877 566290.46 4191614.22
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566310.46 4191614.22 0.93872 566330.46 4191614.22
1.00255
566350.46 4191614.22 1.06397 566370.46 4191614.22
1.12317
566390.46 4191614.22 1.17581 566410.46 4191614.22
1.21750
566430.46 4191614.22 1.24505 566450.46 4191614.22
1.25874
566470.46 4191614.22 1.25940 566490.46 4191614.22
1.24749
566510.46 4191614.22 1.22446 566530.46 4191614.22
1.19328
566550.46 4191614.22 1.15614 566570.46 4191614.22
1.11581
565570.46 4191634.22 0.19576 565590.46 4191634.22
0.20880
565610.46 4191634.22 0.22337 565630.46 4191634.22
0.23925
565650.46 4191634.22 0.25657 565670.46 4191634.22
0.27586
565690.46 4191634.22 0.29773 565710.46 4191634.22
0.32273
565730.46 4191634.22 0.35092 565750.46 4191634.22
0.38260
565770.46 4191634.22 0.41801 565790.46 4191634.22
0.45748
565810.46 4191634.22 0.50199 565830.46 4191634.22
0.55411
565850.46 4191634.22 0.61824 565870.46 4191634.22
0.69085

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 ,
L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,
L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,
L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565970.46	4191634.22	1.17639	565990.46	4191634.22	1.32118
566010.46	4191634.22	1.46762	566030.46	4191634.22	1.39515
566050.46	4191634.22	1.28317	566070.46	4191634.22	1.19650
566090.46	4191634.22	1.08697	566110.46	4191634.22	0.97328
566130.46	4191634.22	0.87550	566150.46	4191634.22	0.81049
566170.46	4191634.22	0.78849	566190.46	4191634.22	0.79750
566210.46	4191634.22	0.82722	566230.46	4191634.22	0.87215
566250.46	4191634.22	0.93203	566270.46	4191634.22	1.01037
566290.46	4191634.22	1.10432	566310.46	4191634.22	1.19342
566330.46	4191634.22	1.27354	566350.46	4191634.22	1.34477
566370.46	4191634.22	1.40704	566390.46	4191634.22	1.45594
565570.46	4191654.22	0.19879	565590.46	4191654.22	0.21232
565610.46	4191654.22	0.22745	565630.46	4191654.22	0.24398
565650.46	4191654.22	0.26211	565670.46	4191654.22	0.28251
565690.46	4191654.22	0.30573	565710.46	4191654.22	

0.33212
565730.46 4191654.22 0.36176 565750.46 4191654.22
0.39545
565770.46 4191654.22 0.43391 565790.46 4191654.22
0.47791
565810.46 4191654.22 0.52855 565830.46 4191654.22
0.58780
566010.46 4191654.22 1.68029 566030.46 4191654.22
1.70028
566050.46 4191654.22 1.67369 566070.46 4191654.22
1.58941
566090.46 4191654.22 1.43276 566110.46 4191654.22
1.26195
566130.46 4191654.22 1.12433 566150.46 4191654.22
1.03427
566170.46 4191654.22 0.99304 566190.46 4191654.22
1.00109
566210.46 4191654.22 1.04333 566230.46 4191654.22
1.11147
566250.46 4191654.22 1.20351 566270.46 4191654.22
1.32162
566290.46 4191654.22 1.44770 566310.46 4191654.22
1.55727
565570.46 4191674.22 0.20186 565590.46 4191674.22
0.21586
565610.46 4191674.22 0.23145 565630.46 4191674.22
0.24855
565650.46 4191674.22 0.26755 565670.46 4191674.22
0.28908
565690.46 4191674.22 0.31357 565710.46 4191674.22
0.34123
565730.46 4191674.22 0.37235 566010.46 4191674.22
1.91742
566030.46 4191674.22 2.16536 566050.46 4191674.22
2.28720
566070.46 4191674.22 2.22822 566090.46 4191674.22
2.02212
566110.46 4191674.22 1.75957 566130.46 4191674.22
1.56293
566150.46 4191674.22 1.43957 566170.46 4191674.22
1.35117
566190.46 4191674.22 1.34015 566210.46 4191674.22
1.39736
566230.46 4191674.22 1.50382 566250.46 4191674.22
1.64989
566270.46 4191674.22 1.82922 566290.46 4191674.22
1.97416
565570.46 4191694.22 0.20520 565590.46 4191694.22
0.21960
565610.46 4191694.22 0.23536 565630.46 4191694.22
0.25307

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565650.46	4191694.22	0.27297	565670.46	4191694.22	0.29543
565690.46	4191694.22	0.32085	565710.46	4191694.22	0.34967
565730.46	4191694.22	0.38229	566050.46	4191694.22	2.87481
566070.46	4191694.22	3.16833	566090.46	4191694.22	2.93856
566110.46	4191694.22	2.63511	566130.46	4191694.22	2.31671
566150.46	4191694.22	2.08221	566170.46	4191694.22	1.92349
566190.46	4191694.22	1.88254	566210.46	4191694.22	1.97690
566230.46	4191694.22	2.16692	566250.46	4191694.22	2.39865
566270.46	4191694.22	2.59979	565570.46	4191714.22	0.20815
565590.46	4191714.22	0.22314	565610.46	4191714.22	0.23971
565630.46	4191714.22	0.25793	565650.46	4191714.22	0.27848
565670.46	4191714.22	0.30173	565690.46	4191714.22	0.32800
565710.46	4191714.22	0.35779	565730.46	4191714.22	0.39181
566070.46	4191714.22	4.00749	566090.46	4191714.22	4.37244
566110.46	4191714.22	4.07986	566130.46	4191714.22	3.69507
566150.46	4191714.22	3.23769	566170.46	4191714.22	2.90643
566190.46	4191714.22	2.79475	565570.46	4191734.22	0.21087
565590.46	4191734.22	0.22650	565610.46	4191734.22	0.24404
565630.46	4191734.22	0.26273	565650.46	4191734.22	0.28392
565670.46	4191734.22	0.30792	565690.46	4191734.22	0.33499
565710.46	4191734.22	0.36557	566110.46	4191734.22	6.86534
566130.46	4191734.22	6.42781	566150.46	4191734.22	

5.47978
         566170.46   4191734.22   4.74761   566190.46   4191734.22
4.44394
         565570.46   4191754.22   0.21349   565590.46   4191754.22
0.22961
         565610.46   4191754.22   0.24757   565630.46   4191754.22
0.26659
         565650.46   4191754.22   0.28898   565670.46   4191754.22
0.31414
         565690.46   4191754.22   0.34198   565710.46   4191754.22
0.37317
         566130.46   4191754.22   11.15445   566150.46   4191754.22
10.10115
         566170.46   4191754.22   8.84895   566190.46   4191754.22
8.35369
         565570.46   4191774.22   0.21585   565590.46   4191774.22
0.23214
         565610.46   4191774.22   0.25043   565630.46   4191774.22
0.27005
         565650.46   4191774.22   0.29347   565670.46   4191774.22
0.31981
         565690.46   4191774.22   0.34874   565710.46   4191774.22
0.38085
         566170.46   4191774.22   19.79227   566190.46   4191774.22
19.20979
         565570.46   4191794.22   0.21796   565590.46   4191794.22
0.23426
         565610.46   4191794.22   0.25281   565630.46   4191794.22
0.27315
         565650.46   4191794.22   0.29747   565670.46   4191794.22
0.32497
         565690.46   4191794.22   0.35516   565710.46   4191794.22
0.38837
         565570.46   4191814.22   0.21965   565590.46   4191814.22
0.23636
         565610.46   4191814.22   0.25533   565630.46   4191814.22
0.27581

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                            *** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                     L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                     L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                     L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565650.46	4191814.22	0.30101	565670.46	4191814.22	0.32937
565690.46	4191814.22	0.36026	565710.46	4191814.22	0.39414
565570.46	4191834.22	0.22106	565590.46	4191834.22	0.23815
565610.46	4191834.22	0.25740	565630.46	4191834.22	0.27819
565650.46	4191834.22	0.30353	565670.46	4191834.22	0.33209
565690.46	4191834.22	0.36356	565710.46	4191834.22	0.39846
565570.46	4191854.22	0.22221	565590.46	4191854.22	0.23965
565610.46	4191854.22	0.25905	565630.46	4191854.22	0.28028
565650.46	4191854.22	0.30507	565670.46	4191854.22	0.33322
565690.46	4191854.22	0.36509	565710.46	4191854.22	0.40125
565570.46	4191874.22	0.22320	565590.46	4191874.22	0.24088
565610.46	4191874.22	0.26037	565630.46	4191874.22	0.28219
565650.46	4191874.22	0.30732	565670.46	4191874.22	0.33587
565690.46	4191874.22	0.36826	565710.46	4191874.22	0.40505
565570.46	4191894.22	0.22433	565590.46	4191894.22	0.24220
565610.46	4191894.22	0.26194	565630.46	4191894.22	0.28426
565650.46	4191894.22	0.30959	565670.46	4191894.22	0.33845
565690.46	4191894.22	0.37118	565710.46	4191894.22	0.40824
565570.46	4191914.22	0.22561	565590.46	4191914.22	0.24367
565610.46	4191914.22	0.26384	565630.46	4191914.22	0.28657
565650.46	4191914.22	0.31194	565670.46	4191914.22	0.34103
565690.46	4191914.22	0.37390	565710.46	4191914.22	0.41074
565570.46	4191934.22	0.22803	565590.46	4191934.22	0.24639
565610.46	4191934.22	0.26677	565630.46	4191934.22	0.28935
565650.46	4191934.22	0.31442	565670.46	4191934.22	0.34295
565690.46	4191934.22	0.37531	565710.46	4191934.22	0.41206
565570.46	4191954.22	0.23067	565590.46	4191954.22	0.24932
565610.46	4191954.22	0.26991	565630.46	4191954.22	0.29222
565650.46	4191954.22	0.31702	565670.46	4191954.22	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565650.46	4192014.22	0.32700	565670.46	4192014.22	0.35484
565690.46	4192014.22	0.38686	565710.46	4192014.22	0.42431
565570.46	4192034.22	0.23720	565590.46	4192034.22	0.25565
565610.46	4192034.22	0.27828	565630.46	4192034.22	0.30457
565650.46	4192034.22	0.32910	565670.46	4192034.22	0.35620

565690.46 4192034.22 0.38781 565710.46 4192034.22
0.42570
565570.46 4192054.22 0.23784 565590.46 4192054.22
0.25604
565610.46 4192054.22 0.27848 565630.46 4192054.22
0.30472
565650.46 4192054.22 0.32942 565670.46 4192054.22
0.35681
565690.46 4192054.22 0.38881 565570.46 4192074.22
0.23887
565590.46 4192074.22 0.25705 565610.46 4192074.22
0.27872
565630.46 4192074.22 0.30373 565650.46 4192074.22
0.32849
565670.46 4192074.22 0.35612 565690.46 4192074.22
0.38778
565570.46 4192094.22 0.24098 565590.46 4192094.22
0.25941
565610.46 4192094.22 0.27954 565630.46 4192094.22
0.30190
565650.46 4192094.22 0.32646 565570.46 4192114.22
0.24054
565590.46 4192114.22 0.25881 565610.46 4192114.22
0.27826
565630.46 4192114.22 0.29960 565650.46 4192114.22
0.32364
565570.46 4192134.22 0.23893 565590.46 4192134.22
0.25692
565610.46 4192134.22 0.27599 565630.46 4192134.22
0.29685
565570.46 4192154.22 0.23674 565590.46 4192154.22
0.25456
565610.46 4192154.22 0.27346 565630.46 4192154.22
0.29379
565570.46 4192174.22 0.23524 565590.46 4192174.22
0.25249
565610.46 4192174.22 0.27069 565630.46 4192174.22
0.28630
565690.46 4192174.22 0.44051 565710.46 4192174.22
0.44947
565730.46 4192174.22 0.45949 565750.46 4192174.22
0.47631
565770.46 4192174.22 0.48517 565790.46 4192174.22
0.48322
565810.46 4192174.22 0.48911 565570.46 4192194.22
0.23381
565590.46 4192194.22 0.25013 565610.46 4192194.22
0.26483
565630.46 4192194.22 0.34817 565650.46 4192194.22
0.38966
565670.46 4192194.22 0.40471 565690.46 4192194.22
0.40833
565710.46 4192194.22 0.41159 565730.46 4192194.22
0.42176
565750.46 4192194.22 0.43517 565770.46 4192194.22
0.45469
565790.46 4192194.22 0.46768 565810.46 4192194.22
0.47690
565570.46 4192214.22 0.23211 565590.46 4192214.22
0.24545
565610.46 4192214.22 0.32183 565630.46 4192214.22

0.36177
565650.46 4192214.22 0.37125 565670.46 4192214.22
0.37082
565690.46 4192214.22 0.37192 565710.46 4192214.22
0.37674
565730.46 4192214.22 0.38334 565750.46 4192214.22
0.39468
565770.46 4192214.22 0.41244 565790.46 4192214.22
0.43151

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565810.46	4192214.22	0.44820	565570.46	4192234.22	0.22822
565590.46	4192234.22	0.28467	565610.46	4192234.22	0.33745
565630.46	4192234.22	0.34685	565650.46	4192234.22	0.34318
565670.46	4192234.22	0.34075	565690.46	4192234.22	0.34408
565710.46	4192234.22	0.34983	565730.46	4192234.22	0.35640
565750.46	4192234.22	0.36722	565770.46	4192234.22	0.38201
565790.46	4192234.22	0.39964	565810.46	4192234.22	0.41736
566610.64	4191596.95	0.97204	566594.96	4191572.56	0.91453
566676.84	4191551.66	0.79095	566582.76	4191498.52	0.74135
566607.15	4191478.49	0.68984	566639.38	4191459.32	0.61013
566587.99	4191437.55	0.54566	566635.90	4191431.45	0.51393
566616.73	4191406.19	0.43579	566600.18	4191377.44	0.35946

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565570.46	4191234.22	0.24529	565590.46	4191234.22	0.25075
565610.46	4191234.22	0.25615	565630.46	4191234.22	0.26124
565650.46	4191234.22	0.26616	565670.46	4191234.22	0.27089
565690.46	4191234.22	0.27540	565710.46	4191234.22	0.27966
565730.46	4191234.22	0.28363	565750.46	4191234.22	0.28725
565770.46	4191234.22	0.29060	565790.46	4191234.22	0.29358
565810.46	4191234.22	0.29590	565830.46	4191234.22	0.29769
565850.46	4191234.22	0.29953	565870.46	4191234.22	0.30121
565890.46	4191234.22	0.30253	565910.46	4191234.22	0.30345
565930.46	4191234.22	0.30430	565950.46	4191234.22	0.30571
565970.46	4191234.22	0.30737	565990.46	4191234.22	0.30947
566010.46	4191234.22	0.31231	566030.46	4191234.22	0.31619
566050.46	4191234.22	0.32138	566070.46	4191234.22	0.32710
566090.46	4191234.22	0.33339	566110.46	4191234.22	
566633.29	4191315.60	0.25719	566669.00	4191327.79	0.27825
566868.47	4191523.78	0.49404	566871.96	4191416.64	0.37831
566934.68	4191400.96	0.33641			

0.34046
566130.46 4191234.22 0.34846 566150.46 4191234.22
0.35734
566170.46 4191234.22 0.36755 566190.46 4191234.22
0.37794
566210.46 4191234.22 0.38803 566230.46 4191234.22
0.39728
566250.46 4191234.22 0.39966 566270.46 4191234.22
0.37638
566290.46 4191234.22 0.36166 566310.46 4191234.22
0.34133
566330.46 4191234.22 0.31509 566350.46 4191234.22
0.29600
566370.46 4191234.22 0.28540 566390.46 4191234.22
0.27811
566410.46 4191234.22 0.27233 566430.46 4191234.22
0.26891
566450.46 4191234.22 0.26812 566470.46 4191234.22
0.26948
566490.46 4191234.22 0.27460 566510.46 4191234.22
0.28354
566530.46 4191234.22 0.29364 566550.46 4191234.22
0.30478
566570.46 4191234.22 0.31660 565570.46 4191254.22
0.25486
565590.46 4191254.22 0.26112 565610.46 4191254.22
0.26710
565630.46 4191254.22 0.27285 565650.46 4191254.22
0.27847
565670.46 4191254.22 0.28395 565690.46 4191254.22
0.28920
565710.46 4191254.22 0.29417 565730.46 4191254.22
0.29884
565750.46 4191254.22 0.30318 565770.46 4191254.22
0.30721
565790.46 4191254.22 0.31086 565810.46 4191254.22
0.31390
565830.46 4191254.22 0.31650 565850.46 4191254.22
0.31888
565870.46 4191254.22 0.32108 565890.46 4191254.22
0.32293
565910.46 4191254.22 0.32429 565930.46 4191254.22
0.32548
565950.46 4191254.22 0.32699 565970.46 4191254.22
0.32873
565990.46 4191254.22 0.33087 566010.46 4191254.22
0.33378
566030.46 4191254.22 0.33795 566050.46 4191254.22
0.34394
566070.46 4191254.22 0.35044 566090.46 4191254.22
0.35742
566110.46 4191254.22 0.36524 566130.46 4191254.22
0.37418

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566150.46	4191254.22	0.38420	566170.46	4191254.22	0.39499
566190.46	4191254.22	0.40575	566210.46	4191254.22	0.41638
566230.46	4191254.22	0.42630	566250.46	4191254.22	0.42218
566270.46	4191254.22	0.39302	566290.46	4191254.22	0.37822
566310.46	4191254.22	0.35448	566330.46	4191254.22	0.32891
566350.46	4191254.22	0.31275	566370.46	4191254.22	0.30339
566390.46	4191254.22	0.29508	566410.46	4191254.22	0.28831
566430.46	4191254.22	0.28487	566450.46	4191254.22	0.28496
566470.46	4191254.22	0.28760	566490.46	4191254.22	0.29412
566510.46	4191254.22	0.30352	566530.46	4191254.22	0.31420
566550.46	4191254.22	0.32609	566570.46	4191254.22	0.33851
565570.46	4191274.22	0.26465	565590.46	4191274.22	0.27175
565610.46	4191274.22	0.27842	565630.46	4191274.22	0.28493
565650.46	4191274.22	0.29138	565670.46	4191274.22	0.29771
565690.46	4191274.22	0.30377	565710.46	4191274.22	0.30952
565730.46	4191274.22	0.31502	565750.46	4191274.22	0.32018
565770.46	4191274.22	0.32500	565790.46	4191274.22	0.32940
565810.46	4191274.22	0.33333	565830.46	4191274.22	0.33699
565850.46	4191274.22	0.34001	565870.46	4191274.22	0.34289
565890.46	4191274.22	0.34540	565910.46	4191274.22	0.34736
565930.46	4191274.22	0.34901	565950.46	4191274.22	

0.35071
565970.46 4191274.22 0.35256 565990.46 4191274.22
0.35466
566010.46 4191274.22 0.35745 566030.46 4191274.22
0.36168
566050.46 4191274.22 0.36848 566070.46 4191274.22
0.37585
566090.46 4191274.22 0.38370 566110.46 4191274.22
0.39250
566130.46 4191274.22 0.40264 566150.46 4191274.22
0.41405
566170.46 4191274.22 0.42530 566190.46 4191274.22
0.43637
566210.46 4191274.22 0.44771 566230.46 4191274.22
0.45843
566250.46 4191274.22 0.44179 566270.46 4191274.22
0.41303
566290.46 4191274.22 0.39864 566310.46 4191274.22
0.37490
566330.46 4191274.22 0.35025 566350.46 4191274.22
0.33513
566370.46 4191274.22 0.32667 566390.46 4191274.22
0.31767
566410.46 4191274.22 0.31056 566430.46 4191274.22
0.30770
566450.46 4191274.22 0.30945 566470.46 4191274.22
0.31469
566490.46 4191274.22 0.32298 566510.46 4191274.22
0.33251
566530.46 4191274.22 0.34242 566550.46 4191274.22
0.35348
566570.46 4191274.22 0.36590 565570.46 4191294.22
0.27466
565590.46 4191294.22 0.28262 565610.46 4191294.22
0.29012
565630.46 4191294.22 0.29758 565650.46 4191294.22
0.30502
565670.46 4191294.22 0.31232 565690.46 4191294.22
0.31932

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565710.46	4191294.22	0.32598	565730.46	4191294.22	0.33249
565750.46	4191294.22	0.33858	565770.46	4191294.22	0.34425
565790.46	4191294.22	0.34954	565810.46	4191294.22	0.35449
565830.46	4191294.22	0.35926	565850.46	4191294.22	0.36322
565870.46	4191294.22	0.36701	565890.46	4191294.22	0.37037
565910.46	4191294.22	0.37308	565930.46	4191294.22	0.37567
565950.46	4191294.22	0.37798	565970.46	4191294.22	0.37988
565990.46	4191294.22	0.38182	566010.46	4191294.22	0.38437
566030.46	4191294.22	0.38831	566050.46	4191294.22	0.39492
566070.46	4191294.22	0.40301	566090.46	4191294.22	0.41194
566110.46	4191294.22	0.42210	566130.46	4191294.22	0.43383
566150.46	4191294.22	0.44684	566170.46	4191294.22	0.45890
566190.46	4191294.22	0.47062	566210.46	4191294.22	0.48281
566230.46	4191294.22	0.49416	566250.46	4191294.22	0.47599
566270.46	4191294.22	0.44296	566290.46	4191294.22	0.42671
566310.46	4191294.22	0.40462	566330.46	4191294.22	0.38217
566350.46	4191294.22	0.36691	566370.46	4191294.22	0.35817
566390.46	4191294.22	0.34963	566410.46	4191294.22	0.34394
566430.46	4191294.22	0.34235	566450.46	4191294.22	0.34502
566470.46	4191294.22	0.35125	566490.46	4191294.22	0.36134
566510.46	4191294.22	0.37124	566530.46	4191294.22	0.38226
566550.46	4191294.22	0.39525	566570.46	4191294.22	0.40970
565570.46	4191314.22	0.28465	565590.46	4191314.22	0.29349
565610.46	4191314.22	0.30215	565630.46	4191314.22	0.31079
565650.46	4191314.22	0.31933	565670.46	4191314.22	0.32765
565690.46	4191314.22	0.33568	565710.46	4191314.22	0.34344
565730.46	4191314.22	0.35114	565750.46	4191314.22	0.35835
565770.46	4191314.22	0.36514	565790.46	4191314.22	

0.37155
565810.46 4191314.22 0.37753 565830.46 4191314.22
0.38339
565850.46 4191314.22 0.38866 565870.46 4191314.22
0.39352
565890.46 4191314.22 0.39779 565910.46 4191314.22
0.40153
565930.46 4191314.22 0.40531 565950.46 4191314.22
0.40827
565970.46 4191314.22 0.41055 565990.46 4191314.22
0.41269
566010.46 4191314.22 0.41533 566030.46 4191314.22
0.41916
566050.46 4191314.22 0.42506 566070.46 4191314.22
0.43361
566090.46 4191314.22 0.44373 566110.46 4191314.22
0.45528
566130.46 4191314.22 0.46837 566150.46 4191314.22
0.48304
566170.46 4191314.22 0.49649 566190.46 4191314.22
0.50930
566210.46 4191314.22 0.52249 566230.46 4191314.22
0.53384
566250.46 4191314.22 0.51460 566270.46 4191314.22
0.48090

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566290.46	4191314.22	0.46482	566310.46	4191314.22	0.44490
566330.46	4191314.22	0.42426	566350.46	4191314.22	0.40836
566370.46	4191314.22	0.39858	566390.46	4191314.22	0.39024
566410.46	4191314.22	0.38594	566430.46	4191314.22	0.38480

566450.46 4191314.22 0.38701 566470.46 4191314.22
0.39303
566490.46 4191314.22 0.40513 566510.46 4191314.22
0.41678
566530.46 4191314.22 0.43037 566550.46 4191314.22
0.44618
566570.46 4191314.22 0.46270 565570.46 4191334.22
0.29460
565590.46 4191334.22 0.30437 565610.46 4191334.22
0.31429
565630.46 4191334.22 0.32426 565650.46 4191334.22
0.33402
565670.46 4191334.22 0.34351 565690.46 4191334.22
0.35275
565710.46 4191334.22 0.36182 565730.46 4191334.22
0.37090
565750.46 4191334.22 0.37943 565770.46 4191334.22
0.38760
565790.46 4191334.22 0.39534 565810.46 4191334.22
0.40253
565830.46 4191334.22 0.40954 565850.46 4191334.22
0.41649
565870.46 4191334.22 0.42266 565890.46 4191334.22
0.42804
565910.46 4191334.22 0.43304 565930.46 4191334.22
0.43831
565950.46 4191334.22 0.44205 565970.46 4191334.22
0.44502
565990.46 4191334.22 0.44778 566010.46 4191334.22
0.45085
566030.46 4191334.22 0.45477 566050.46 4191334.22
0.45952
566070.46 4191334.22 0.46819 566090.46 4191334.22
0.47964
566110.46 4191334.22 0.49264 566130.46 4191334.22
0.50682
566150.46 4191334.22 0.52323 566170.46 4191334.22
0.53880
566190.46 4191334.22 0.55312 566210.46 4191334.22
0.56747
566230.46 4191334.22 0.57645 566250.46 4191334.22
0.55909
566270.46 4191334.22 0.52951 566290.46 4191334.22
0.51602
566310.46 4191334.22 0.49957 566330.46 4191334.22
0.48213
566350.46 4191334.22 0.46648 566370.46 4191334.22
0.45494
566390.46 4191334.22 0.44490 566410.46 4191334.22
0.44047
566430.46 4191334.22 0.43721 566450.46 4191334.22
0.43578
566470.46 4191334.22 0.43897 566490.46 4191334.22
0.45293
566510.46 4191334.22 0.46915 566530.46 4191334.22
0.48779
566550.46 4191334.22 0.50713 566570.46 4191334.22
0.52475
565570.46 4191354.22 0.30440 565590.46 4191354.22
0.31518
565610.46 4191354.22 0.32613 565630.46 4191354.22

0.33738
565650.46 4191354.22 0.34856 565670.46 4191354.22
0.35950
565690.46 4191354.22 0.37028 565710.46 4191354.22
0.38108
565730.46 4191354.22 0.39170 565750.46 4191354.22
0.40176
565770.46 4191354.22 0.41154 565790.46 4191354.22
0.42091
565810.46 4191354.22 0.42961 565830.46 4191354.22
0.43808

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565850.46	4191354.22	0.44674	565870.46	4191354.22	0.45489
565890.46	4191354.22	0.46193	565910.46	4191354.22	0.46805
565930.46	4191354.22	0.47448	565950.46	4191354.22	0.47964
565970.46	4191354.22	0.48388	565990.46	4191354.22	0.48771
566010.46	4191354.22	0.49172	566030.46	4191354.22	0.49644
566050.46	4191354.22	0.50245	566070.46	4191354.22	0.51024
566090.46	4191354.22	0.52169	566110.46	4191354.22	0.53663
566130.46	4191354.22	0.55344	566150.46	4191354.22	0.56988
566170.46	4191354.22	0.58470	566190.46	4191354.22	0.60150
566210.46	4191354.22	0.61838	566230.46	4191354.22	0.61873
566250.46	4191354.22	0.60152	566270.46	4191354.22	0.58093

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        566290.46    4191354.22       0.57350                    566310.46    4191354.22
0.56177
        566330.46    4191354.22       0.54419                    566350.46    4191354.22
0.52538
        566370.46    4191354.22       0.51187                    566390.46    4191354.22
0.50138
        566410.46    4191354.22       0.49528                    566430.46    4191354.22
0.49105
        566450.46    4191354.22       0.48954                    566470.46    4191354.22
0.49419
        566490.46    4191354.22       0.51152                    566510.46    4191354.22
0.53332
        566530.46    4191354.22       0.55658                    566550.46    4191354.22
0.57805
        566570.46    4191354.22       0.59530                    565570.46    4191374.22
0.31417
        565590.46    4191374.22       0.32602                    565610.46    4191374.22
0.33805
        565630.46    4191374.22       0.35055                    565650.46    4191374.22
0.36323
        565670.46    4191374.22       0.37590                    565690.46    4191374.22
0.38851
        565710.46    4191374.22       0.40109                    565730.46    4191374.22
0.41342
        565750.46    4191374.22       0.42532                    565770.46    4191374.22
0.43698
        565790.46    4191374.22       0.44823                    565810.46    4191374.22
0.45886
        565830.46    4191374.22       0.46917                    565850.46    4191374.22
0.47990
        565870.46    4191374.22       0.49020                    565890.46    4191374.22
0.49922
        565910.46    4191374.22       0.50696                    565930.46    4191374.22
0.51506
        565950.46    4191374.22       0.52206                    565970.46    4191374.22
0.52792
        565990.46    4191374.22       0.53345                    566010.46    4191374.22
0.53901
        566030.46    4191374.22       0.54493                    566050.46    4191374.22
0.55243
        566070.46    4191374.22       0.56105                    566090.46    4191374.22
0.57475
        566110.46    4191374.22       0.59277                    566130.46    4191374.22
0.61146
        566150.46    4191374.22       0.62723                    566170.46    4191374.22
0.64071
        566190.46    4191374.22       0.65754                    566210.46    4191374.22
0.67633
        566230.46    4191374.22       0.67096                    566250.46    4191374.22
0.64917
        566270.46    4191374.22       0.63732                    566290.46    4191374.22
0.63473
        566310.46    4191374.22       0.62766                    566330.46    4191374.22
0.61156
        566350.46    4191374.22       0.59215                    566370.46    4191374.22
0.57870
        566390.46    4191374.22       0.56924                    566410.46    4191374.22
0.56300
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     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566430.46	4191374.22	0.55933	566450.46	4191374.22	0.55902
566470.46	4191374.22	0.56575	566490.46	4191374.22	0.58658
566510.46	4191374.22	0.61364	566530.46	4191374.22	0.64038
566550.46	4191374.22	0.66273	566570.46	4191374.22	0.67898
565570.46	4191394.22	0.32383	565590.46	4191394.22	0.33677
565610.46	4191394.22	0.34999	565630.46	4191394.22	0.36378
565650.46	4191394.22	0.37802	565670.46	4191394.22	0.39263
565690.46	4191394.22	0.40731	565710.46	4191394.22	0.42178
565730.46	4191394.22	0.43599	565750.46	4191394.22	0.45011
565770.46	4191394.22	0.46388	565790.46	4191394.22	0.47732
565810.46	4191394.22	0.49038	565830.46	4191394.22	0.50296
565850.46	4191394.22	0.51613	565870.46	4191394.22	0.52891
565890.46	4191394.22	0.54028	565910.46	4191394.22	0.55030
565930.46	4191394.22	0.56064	565950.46	4191394.22	0.57001
565970.46	4191394.22	0.57797	565990.46	4191394.22	0.58598
566010.46	4191394.22	0.59398	566030.46	4191394.22	0.60164
566050.46	4191394.22	0.61097	566070.46	4191394.22	0.62280
566090.46	4191394.22	0.64147	566110.46	4191394.22	0.66223

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         566130.46    4191394.22        0.67940                    566150.46    4191394.22
0.69221
         566170.46    4191394.22        0.70740                    566190.46    4191394.22
0.72288
         566210.46    4191394.22        0.74281                    566230.46    4191394.22
0.73969
         566250.46    4191394.22        0.70753                    566270.46    4191394.22
0.69790
         566290.46    4191394.22        0.69724                    566310.46    4191394.22
0.69350
         566330.46    4191394.22        0.68204                    566350.46    4191394.22
0.66758
         566370.46    4191394.22        0.65855                    566390.46    4191394.22
0.65367
         566410.46    4191394.22        0.65489                    566430.46    4191394.22
0.65567
         566450.46    4191394.22        0.65834                    566470.46    4191394.22
0.66617
         566490.46    4191394.22        0.68916                    566510.46    4191394.22
0.71791
         566530.46    4191394.22        0.74412                    566550.46    4191394.22
0.76521
         566570.46    4191394.22        0.78164                    565570.46    4191414.22
0.33337
         565590.46    4191414.22        0.34741                    565610.46    4191414.22
0.36201
         565630.46    4191414.22        0.37728                    565650.46    4191414.22
0.39322
         565670.46    4191414.22        0.40976                    565690.46    4191414.22
0.42654
         565710.46    4191414.22        0.44318                    565730.46    4191414.22
0.45963
         565750.46    4191414.22        0.47619                    565770.46    4191414.22
0.49234
         565790.46    4191414.22        0.50816                    565810.46    4191414.22
0.52394
         565830.46    4191414.22        0.53986                    565850.46    4191414.22
0.55551
         565870.46    4191414.22        0.57110                    565890.46    4191414.22
0.58544
         565910.46    4191414.22        0.59833                    565930.46    4191414.22
0.61129
         565950.46    4191414.22        0.62377                    565970.46    4191414.22
0.63429
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 236
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
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L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565990.46	4191414.22	0.64508	566010.46	4191414.22	0.65651
566030.46	4191414.22	0.66827	566050.46	4191414.22	0.68149
566070.46	4191414.22	0.69875	566090.46	4191414.22	0.71854
566110.46	4191414.22	0.73549	566130.46	4191414.22	0.71901
566150.46	4191414.22	0.67316	566170.46	4191414.22	0.69726
566190.46	4191414.22	0.75970	566210.46	4191414.22	0.78797
566230.46	4191414.22	0.79211	566250.46	4191414.22	0.76870
566270.46	4191414.22	0.76426	566290.46	4191414.22	0.76542
566310.46	4191414.22	0.76581	566330.46	4191414.22	0.75784
566350.46	4191414.22	0.74296	566370.46	4191414.22	0.72951
566390.46	4191414.22	0.73196	566410.46	4191414.22	0.74219
566430.46	4191414.22	0.75543	566450.46	4191414.22	0.76965
566470.46	4191414.22	0.78399	566490.46	4191414.22	0.80819
566510.46	4191414.22	0.83788	566530.46	4191414.22	0.86790
566550.46	4191414.22	0.89278	566570.46	4191414.22	0.91132
565570.46	4191434.22	0.34257	565590.46	4191434.22	0.35779
565610.46	4191434.22	0.37392	565630.46	4191434.22	0.39079
565650.46	4191434.22	0.40853	565670.46	4191434.22	0.42701
565690.46	4191434.22	0.44597	565710.46	4191434.22	0.46494
565730.46	4191434.22	0.48391	565750.46	4191434.22	0.50315
565770.46	4191434.22	0.52208	565790.46	4191434.22	0.54083
565810.46	4191434.22	0.55987	565830.46	4191434.22	0.57915
565850.46	4191434.22	0.59814	565870.46	4191434.22	0.61741
565890.46	4191434.22	0.63536	565910.46	4191434.22	0.65169
565930.46	4191434.22	0.66823	565950.46	4191434.22	0.68446

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         565970.46    4191434.22        0.69852                     565990.46    4191434.22
0.71337
         566010.46    4191434.22        0.72963                     566030.46    4191434.22
0.74686
         566050.46    4191434.22        0.76483                     566070.46    4191434.22
0.78438
         566090.46    4191434.22        0.80081                     566110.46    4191434.22
0.76696
         566130.46    4191434.22        0.66915                     566150.46    4191434.22
0.63858
         566170.46    4191434.22        0.64877                     566190.46    4191434.22
0.69325
         566210.46    4191434.22        0.74759                     566230.46    4191434.22
0.79047
         566250.46    4191434.22        0.81039                     566270.46    4191434.22
0.81112
         566290.46    4191434.22        0.81408                     566310.46    4191434.22
0.82006
         566330.46    4191434.22        0.82063                     566350.46    4191434.22
0.81145
         566370.46    4191434.22        0.79833                     566390.46    4191434.22
0.81118
         566410.46    4191434.22        0.83118                     566430.46    4191434.22
0.85968
         566450.46    4191434.22        0.89001                     566470.46    4191434.22
0.91600
         566490.46    4191434.22        0.94249                     566510.46    4191434.22
0.97263
         566530.46    4191434.22        1.00857                     566550.46    4191434.22
1.04056
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 237
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                     L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                     L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                     L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
         566570.46    4191434.22        1.06367                     565570.46    4191454.22
0.35143
         565590.46    4191454.22        0.36789                     565610.46    4191454.22
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0.38560
565630.46 4191454.22 0.40417 565650.46 4191454.22
0.42375
565670.46 4191454.22 0.44426 565690.46 4191454.22
0.46548
565710.46 4191454.22 0.48690 565730.46 4191454.22
0.50862
565750.46 4191454.22 0.53086 565770.46 4191454.22
0.55298
565790.46 4191454.22 0.57529 565810.46 4191454.22
0.59816
565830.46 4191454.22 0.62077 565850.46 4191454.22
0.64411
565870.46 4191454.22 0.66814 565890.46 4191454.22
0.69052
565910.46 4191454.22 0.71097 565930.46 4191454.22
0.73231
565950.46 4191454.22 0.75307 565970.46 4191454.22
0.77195
565990.46 4191454.22 0.79265 566010.46 4191454.22
0.81570
566030.46 4191454.22 0.83961 566050.46 4191454.22
0.86154
566070.46 4191454.22 0.87741 566090.46 4191454.22
0.83930
566110.46 4191454.22 0.72443 566130.46 4191454.22
0.66325
566150.46 4191454.22 0.62853 566170.46 4191454.22
0.62554
566190.46 4191454.22 0.65174 566210.46 4191454.22
0.69409
566230.46 4191454.22 0.74518 566250.46 4191454.22
0.79048
566270.46 4191454.22 0.79031 566290.46 4191454.22
0.79576
566310.46 4191454.22 0.81606 566330.46 4191454.22
0.83925
566350.46 4191454.22 0.85415 566370.46 4191454.22
0.85870
566390.46 4191454.22 0.88315 566410.46 4191454.22
0.91167
566430.46 4191454.22 0.94732 566450.46 4191454.22
0.98905
566470.46 4191454.22 1.03267 566490.46 4191454.22
1.06909
566510.46 4191454.22 1.10115 566530.46 4191454.22
1.14305
566550.46 4191454.22 1.18567 566570.46 4191454.22
1.22029
565570.46 4191474.22 0.36007 565590.46 4191474.22
0.37774
565610.46 4191474.22 0.39700 565630.46 4191474.22
0.41725
565650.46 4191474.22 0.43867 565670.46 4191474.22
0.46109
565690.46 4191474.22 0.48435 565710.46 4191474.22
0.50853
565730.46 4191474.22 0.53346 565750.46 4191474.22
0.55908
565770.46 4191474.22 0.58503 565790.46 4191474.22
0.61163

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        565810.46    4191474.22        0.63916                     565830.46    4191474.22
0.66594
        565850.46    4191474.22        0.69502                     565870.46    4191474.22
0.72405
        565890.46    4191474.22        0.75074                     565910.46    4191474.22
0.77572
        565930.46    4191474.22        0.80286                     565950.46    4191474.22
0.83058
        565970.46    4191474.22        0.85655                     565990.46    4191474.22
0.88611
        566010.46    4191474.22        0.91665                     566030.46    4191474.22
0.94341
        566050.46    4191474.22        0.96481                     566070.46    4191474.22
0.94367
        566090.46    4191474.22        0.81968                     566110.46    4191474.22
0.73533
↑ *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE 238
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                            *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
        566130.46    4191474.22        0.67392                     566150.46    4191474.22
0.63757
        566170.46    4191474.22        0.63009                     566190.46    4191474.22
0.64843
        566210.46    4191474.22        0.68043                     566230.46    4191474.22
0.72419
        566250.46    4191474.22        0.77105                     566270.46    4191474.22
0.78442
        566290.46    4191474.22        0.79777                     566310.46    4191474.22
0.82811
        566330.46    4191474.22        0.87029                     566350.46    4191474.22
0.91459
        566370.46    4191474.22        0.94651                     566390.46    4191474.22
0.97151
        566410.46    4191474.22        0.99766                     566430.46    4191474.22
1.03429
        566450.46    4191474.22        1.08290                     566470.46    4191474.22
```

1.13885
566490.46 4191474.22 1.18609 566510.46 4191474.22
1.21959
566530.46 4191474.22 1.26454 566550.46 4191474.22
1.31399
566570.46 4191474.22 1.35836 565570.46 4191494.22
0.36847
565590.46 4191494.22 0.38742 565610.46 4191494.22
0.40816
565630.46 4191494.22 0.42992 565650.46 4191494.22
0.45317
565670.46 4191494.22 0.47764 565690.46 4191494.22
0.50321
565710.46 4191494.22 0.53032 565730.46 4191494.22
0.55864
565750.46 4191494.22 0.58788 565770.46 4191494.22
0.61796
565790.46 4191494.22 0.64934 565810.46 4191494.22
0.68215
565830.46 4191494.22 0.71397 565850.46 4191494.22
0.74957
565870.46 4191494.22 0.78438 565890.46 4191494.22
0.81686
565910.46 4191494.22 0.84845 565930.46 4191494.22
0.88341
565950.46 4191494.22 0.91930 565970.46 4191494.22
0.95456
565990.46 4191494.22 0.99404 566010.46 4191494.22
1.03152
566030.46 4191494.22 1.06076 566050.46 4191494.22
1.07793
566070.46 4191494.22 0.97400 566090.46 4191494.22
0.84763
566110.46 4191494.22 0.75353 566130.46 4191494.22
0.68657
566150.46 4191494.22 0.65441 566170.46 4191494.22
0.65007
566190.46 4191494.22 0.66857 566210.46 4191494.22
0.69832
566230.46 4191494.22 0.73896 566250.46 4191494.22
0.78530
566270.46 4191494.22 0.81192 566290.46 4191494.22
0.82723
566310.46 4191494.22 0.86010 566330.46 4191494.22
0.91401
566350.46 4191494.22 0.98273 566370.46 4191494.22
1.04620
566390.46 4191494.22 1.07330 566410.46 4191494.22
1.09504
566430.46 4191494.22 1.12857 566450.46 4191494.22
1.17874
566470.46 4191494.22 1.24144 566490.46 4191494.22
1.29892
566510.46 4191494.22 1.33400 566530.46 4191494.22
1.37804
566550.46 4191494.22 1.42933 566570.46 4191494.22
1.48015
565570.46 4191514.22 0.37666 565590.46 4191514.22
0.39699
565610.46 4191514.22 0.41904 565630.46 4191514.22
0.44211

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565690.46	4191514.22	0.52196	565710.46	4191514.22	0.55222
565730.46	4191514.22	0.58401	565750.46	4191514.22	0.61704
565770.46	4191514.22	0.65153	565790.46	4191514.22	0.68814
565810.46	4191514.22	0.72677	565830.46	4191514.22	0.76470
565850.46	4191514.22	0.80732	565870.46	4191514.22	0.84886
565890.46	4191514.22	0.88943	565910.46	4191514.22	0.93104
565930.46	4191514.22	0.97684	565950.46	4191514.22	1.02158
565970.46	4191514.22	1.06898	565990.46	4191514.22	1.11777
566010.46	4191514.22	1.16079	566030.46	4191514.22	1.19401
566050.46	4191514.22	1.18827	566070.46	4191514.22	1.02285
566090.46	4191514.22	0.88665	566110.46	4191514.22	0.77196
566130.46	4191514.22	0.70216	566150.46	4191514.22	0.67584
566170.46	4191514.22	0.68267	566190.46	4191514.22	0.70432
566210.46	4191514.22	0.73185	566230.46	4191514.22	0.76787
566250.46	4191514.22	0.81122	566270.46	4191514.22	0.84856
566290.46	4191514.22	0.86360	566310.46	4191514.22	

0.89304
566330.46 4191514.22 0.94723 566350.46 4191514.22
1.02655
566370.46 4191514.22 1.11686 566390.46 4191514.22
1.18196
566410.46 4191514.22 1.22363 566430.46 4191514.22
1.25511
566450.46 4191514.22 1.29369 566470.46 4191514.22
1.34794
566490.46 4191514.22 1.40988 566510.46 4191514.22
1.45093
566530.46 4191514.22 1.48698 566550.46 4191514.22
1.52833
566570.46 4191514.22 1.57284 565570.46 4191534.22
0.38435
565590.46 4191534.22 0.40559 565610.46 4191534.22
0.42850
565630.46 4191534.22 0.45319 565650.46 4191534.22
0.47996
565670.46 4191534.22 0.50872 565690.46 4191534.22
0.53966
565710.46 4191534.22 0.57316 565730.46 4191534.22
0.60870
565750.46 4191534.22 0.64576 565770.46 4191534.22
0.68490
565790.46 4191534.22 0.72667 565810.46 4191534.22
0.77109
565830.46 4191534.22 0.81700 565850.46 4191534.22
0.86730
565870.46 4191534.22 0.91739 565890.46 4191534.22
0.96801
565910.46 4191534.22 1.02149 565930.46 4191534.22
1.08072
565950.46 4191534.22 1.13665 565970.46 4191534.22
1.19412
565990.46 4191534.22 1.25342 566010.46 4191534.22
1.30842
566030.46 4191534.22 1.35125 566050.46 4191534.22
1.27814
566070.46 4191534.22 1.08843 566090.46 4191534.22
0.92607
566110.46 4191534.22 0.79891 566130.46 4191534.22
0.73267
566150.46 4191534.22 0.71376 566170.46 4191534.22
0.72545
566190.46 4191534.22 0.74873 566210.46 4191534.22
0.77753
566230.46 4191534.22 0.81328 566250.46 4191534.22
0.85478

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,

L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
566270.46	4191534.22	0.89425	566290.46	4191534.22	0.91725
566310.46	4191534.22	0.95168	566330.46	4191534.22	1.00809
566350.46	4191534.22	1.09054	566370.46	4191534.22	1.19224
566390.46	4191534.22	1.28515	566410.46	4191534.22	1.35641
566430.46	4191534.22	1.40497	566450.46	4191534.22	1.44643
566470.46	4191534.22	1.49305	566490.46	4191534.22	1.54508
566510.46	4191534.22	1.58507	566530.46	4191534.22	1.61172
566550.46	4191534.22	1.64090	566570.46	4191534.22	1.67411
565570.46	4191554.22	0.39147	565590.46	4191554.22	0.41352
565610.46	4191554.22	0.43738	565630.46	4191554.22	0.46351
565650.46	4191554.22	0.49191	565670.46	4191554.22	0.52276
565690.46	4191554.22	0.55638	565710.46	4191554.22	0.59301
565730.46	4191554.22	0.63254	565750.46	4191554.22	0.67396
565770.46	4191554.22	0.71816	565790.46	4191554.22	0.76557
565810.46	4191554.22	0.81632	565830.46	4191554.22	0.87030
565850.46	4191554.22	0.92910	565870.46	4191554.22	0.98978
565890.46	4191554.22	1.05303	565910.46	4191554.22	1.12102
565930.46	4191554.22	1.19554	565950.46	4191554.22	1.26501
565970.46	4191554.22	1.33387	565990.46	4191554.22	1.40824
566010.46	4191554.22	1.48137	566030.46	4191554.22	1.51375
566050.46	4191554.22	1.33158	566070.46	4191554.22	1.16516
566090.46	4191554.22	0.97978	566110.46	4191554.22	0.85163
566130.46	4191554.22	0.78638	566150.46	4191554.22	

0.76736
566170.46 4191554.22 0.77966 566190.46 4191554.22
0.80363
566210.46 4191554.22 0.83619 566230.46 4191554.22
0.87545
566250.46 4191554.22 0.91807 566270.46 4191554.22
0.95884
566290.46 4191554.22 0.99672 566310.46 4191554.22
1.04354
566330.46 4191554.22 1.10691 566350.46 4191554.22
1.19143
566370.46 4191554.22 1.29627 566390.46 4191554.22
1.40701
566410.46 4191554.22 1.51041 566430.46 4191554.22
1.58823
566450.46 4191554.22 1.64270 566470.46 4191554.22
1.68341
566490.46 4191554.22 1.71846 566510.46 4191554.22
1.75044
566530.46 4191554.22 1.76511 566550.46 4191554.22
1.77860
566570.46 4191554.22 1.79452 565570.46 4191574.22
0.39793
565590.46 4191574.22 0.42084 565610.46 4191574.22
0.44574
565630.46 4191574.22 0.47294 565650.46 4191574.22
0.50290
565670.46 4191574.22 0.53575 565690.46 4191574.22
0.57179
565710.46 4191574.22 0.61137 565730.46 4191574.22
0.65508
565750.46 4191574.22 0.70132 565770.46 4191574.22
0.75105
565790.46 4191574.22 0.80479 565810.46 4191574.22
0.86251

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

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

- - - -

1.79677
         566010.46   4191594.22   1.92649   566030.46   4191594.22
1.82057
         566050.46   4191594.22   1.57880   566070.46   4191594.22
1.40736
         566090.46   4191594.22   1.22424   566110.46   4191594.22
1.09384
         566130.46   4191594.22   1.00799   566150.46   4191594.22
0.96193
         566170.46   4191594.22   0.96231   566190.46   4191594.22
0.99047
         566210.46   4191594.22   1.04232   566230.46   4191594.22
1.10653
         566250.46   4191594.22   1.17621   566270.46   4191594.22
1.25220
         566290.46   4191594.22   1.34082   566310.46   4191594.22
1.43914
         566330.46   4191594.22   1.54824   566350.46   4191594.22
1.66790
         566370.46   4191594.22   1.79445   566390.46   4191594.22
1.91909

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                    L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                    L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                    L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)
CONC
 -
- - - - - - - - - - - - - -
         566410.46   4191594.22   2.03248   566430.46   4191594.22
2.12449
         566450.46   4191594.22   2.19077   566470.46   4191594.22
2.23039
         566490.46   4191594.22   2.24448   566510.46   4191594.22
2.23686
         566530.46   4191594.22   2.21110   566550.46   4191594.22
2.17309
         566570.46   4191594.22   2.12698   565570.46   4191614.22
0.40953
         565590.46   4191614.22   0.43455   565610.46   4191614.22
0.46218

565630.46 4191614.22 0.49177 565650.46 4191614.22
0.52420
565670.46 4191614.22 0.55992 565690.46 4191614.22
0.59969
565710.46 4191614.22 0.64449 565730.46 4191614.22
0.69567
565750.46 4191614.22 0.75148 565770.46 4191614.22
0.81261
565790.46 4191614.22 0.87899 565810.46 4191614.22
0.95116
565830.46 4191614.22 1.03153 565850.46 4191614.22
1.12537
565870.46 4191614.22 1.23488 565890.46 4191614.22
1.35614
565910.46 4191614.22 1.48174 565930.46 4191614.22
1.60372
565950.46 4191614.22 1.72504 565970.46 4191614.22
1.86927
565990.46 4191614.22 2.04175 566010.46 4191614.22
2.20769
566030.46 4191614.22 2.06176 566050.46 4191614.22
1.78255
566070.46 4191614.22 1.61437 566090.46 4191614.22
1.42804
566110.46 4191614.22 1.27927 566130.46 4191614.22
1.16758
566150.46 4191614.22 1.10034 566170.46 4191614.22
1.09461
566190.46 4191614.22 1.13375 566210.46 4191614.22
1.20511
566230.46 4191614.22 1.29185 566250.46 4191614.22
1.38895
566270.46 4191614.22 1.50391 566290.46 4191614.22
1.63952
566310.46 4191614.22 1.78272 566330.46 4191614.22
1.92830
566350.46 4191614.22 2.07499 566370.46 4191614.22
2.21995
566390.46 4191614.22 2.35213 566410.46 4191614.22
2.46172
566430.46 4191614.22 2.54076 566450.46 4191614.22
2.58816
566470.46 4191614.22 2.60465 566490.46 4191614.22
2.59109
566510.46 4191614.22 2.55094 566530.46 4191614.22
2.49086
566550.46 4191614.22 2.41607 566570.46 4191614.22
2.33281
565570.46 4191634.22 0.41470 565590.46 4191634.22
0.44052
565610.46 4191634.22 0.46928 565630.46 4191634.22
0.50044
565650.46 4191634.22 0.53414 565670.46 4191634.22
0.57151
565690.46 4191634.22 0.61367 565710.46 4191634.22
0.66169
565730.46 4191634.22 0.71541 565750.46 4191634.22
0.77524
565770.46 4191634.22 0.84143 565790.46 4191634.22
0.91424
565810.46 4191634.22 0.99527 565830.46 4191634.22

1.08931
565850.46 4191634.22 1.20489 565870.46 4191634.22
1.33358
565890.46 4191634.22 1.47117 565910.46 4191634.22
1.61232
565930.46 4191634.22 1.75450 565950.46 4191634.22
1.91560

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565970.46	4191634.22	2.11030	565990.46	4191634.22	2.32762
566010.46	4191634.22	2.53351	566030.46	4191634.22	2.40980
566050.46	4191634.22	2.16272	566070.46	4191634.22	1.96887
566090.46	4191634.22	1.75741	566110.46	4191634.22	1.56486
566130.46	4191634.22	1.40689	566150.46	4191634.22	1.30789
566170.46	4191634.22	1.29475	566190.46	4191634.22	1.35182
566210.46	4191634.22	1.45231	566230.46	4191634.22	1.57535
566250.46	4191634.22	1.71821	566270.46	4191634.22	1.89069
566290.46	4191634.22	2.09327	566310.46	4191634.22	2.29311
566330.46	4191634.22	2.48292	566350.46	4191634.22	2.65977
566370.46	4191634.22	2.81905	566390.46	4191634.22	2.94964
565570.46	4191654.22	0.41979	565590.46	4191654.22	0.44651
565610.46	4191654.22	0.47628	565630.46	4191654.22	0.50859

```
         565650.46    4191654.22        0.54379                    565670.46    4191654.22
0.58325
         565690.46    4191654.22        0.62801                    565710.46    4191654.22
0.67860
         565730.46    4191654.22        0.73499                    565750.46    4191654.22
0.79868
         565770.46    4191654.22        0.87082                    565790.46    4191654.22
0.95260
         565810.46    4191654.22        1.04590                    565830.46    4191654.22
1.15417
         566010.46    4191654.22        2.91308                    566030.46    4191654.22
2.97072
         566050.46    4191654.22        2.85223                    566070.46    4191654.22
2.64542
         566090.46    4191654.22        2.32670                    566110.46    4191654.22
2.02648
         566130.46    4191654.22        1.80617                    566150.46    4191654.22
1.66997
         566170.46    4191654.22        1.63245                    566190.46    4191654.22
1.70010
         566210.46    4191654.22        1.83671                    566230.46    4191654.22
2.01527
         566250.46    4191654.22        2.23209                    566270.46    4191654.22
2.49561
         566290.46    4191654.22        2.77810                    566310.46    4191654.22
3.03586
         565570.46    4191674.22        0.42512                    565590.46    4191674.22
0.45261
         565610.46    4191674.22        0.48311                    565630.46    4191674.22
0.51642
         565650.46    4191674.22        0.55319                    565670.46    4191674.22
0.59473
         565690.46    4191674.22        0.64179                    565710.46    4191674.22
0.69465
         565730.46    4191674.22        0.75374                    566010.46    4191674.22
3.33281
         566030.46    4191674.22        3.68185                    566050.46    4191674.22
3.86684
         566070.46    4191674.22        3.74465                    566090.46    4191674.22
3.32244
         566110.46    4191674.22        2.82610                    566130.46    4191674.22
2.49772
         566150.46    4191674.22        2.31571                    566170.46    4191674.22
2.21998
         566190.46    4191674.22        2.27914                    566210.46    4191674.22
2.46701
         566230.46    4191674.22        2.74115                    566250.46    4191674.22
3.08750
         566270.46    4191674.22        3.49866                    566290.46    4191674.22
3.84803
         565570.46    4191694.22        0.43111                    565590.46    4191694.22
0.45928
         565610.46    4191694.22        0.48991                    565630.46    4191694.22
0.52419
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 244
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565650.46	4191694.22	0.56261	565670.46	4191694.22	0.60578
565690.46	4191694.22	0.65437	565710.46	4191694.22	0.70921
565730.46	4191694.22	0.77084	566050.46	4191694.22	4.78950
566070.46	4191694.22	5.22355	566090.46	4191694.22	4.87181
566110.46	4191694.22	4.27925	566130.46	4191694.22	3.69688
566150.46	4191694.22	3.33911	566170.46	4191694.22	3.16156
566190.46	4191694.22	3.21312	566210.46	4191694.22	3.51027
566230.46	4191694.22	3.98720	566250.46	4191694.22	4.55158
566270.46	4191694.22	5.05903	565570.46	4191714.22	0.43641
565590.46	4191714.22	0.46568	565610.46	4191714.22	0.49784
565630.46	4191714.22	0.53297	565650.46	4191714.22	0.57245
565670.46	4191714.22	0.61683	565690.46	4191714.22	0.66685
565710.46	4191714.22	0.72319	565730.46	4191714.22	0.78712
566070.46	4191714.22	6.55404	566090.46	4191714.22	7.15126
566110.46	4191714.22	6.69880	566130.46	4191714.22	5.96575
566150.46	4191714.22	5.19627	566170.46	4191714.22	4.78593
566190.46	4191714.22	4.80227	565570.46	4191734.22	0.44138
565590.46	4191734.22	0.47188	565610.46	4191734.22	0.50601
565630.46	4191734.22	0.54186	565650.46	4191734.22	0.58236
565670.46	4191734.22	0.62808	565690.46	4191734.22	0.67925

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         565710.46    4191734.22        0.73669                     566110.46    4191734.22
11.04719
         566130.46    4191734.22       10.79272                     566150.46    4191734.22
8.90561
         566170.46    4191734.22        7.85929                     566190.46    4191734.22
7.72874
         565570.46    4191754.22        0.44634                     565590.46    4191754.22
0.47780
         565610.46    4191754.22        0.51265                     565630.46    4191754.22
0.54896
         565650.46    4191754.22        0.59189                     565670.46    4191754.22
0.63973
         565690.46    4191754.22        0.69219                     565710.46    4191754.22
0.75037
         566130.46    4191754.22       18.05153                     566150.46    4191754.22
16.67184
         566170.46    4191754.22       14.88855                     566190.46    4191754.22
14.83377
         565570.46    4191774.22        0.45098                     565590.46    4191774.22
0.48267
         565610.46    4191774.22        0.51811                     565630.46    4191774.22
0.55558
         565650.46    4191774.22        0.60057                     565670.46    4191774.22
0.65078
         565690.46    4191774.22        0.70523                     565710.46    4191774.22
0.76496
         566170.46    4191774.22       34.67276                     566190.46    4191774.22
36.24534
         565570.46    4191794.22        0.45536                     565590.46    4191794.22
0.48697
         565610.46    4191794.22        0.52290                     565630.46    4191794.22
0.56187
         565650.46    4191794.22        0.60871                     565670.46    4191794.22
0.66134
         565690.46    4191794.22        0.71832                     565710.46    4191794.22
0.78012
         565570.46    4191814.22        0.45907                     565590.46    4191814.22
0.49160
         565610.46    4191814.22        0.52844                     565630.46    4191814.22
0.56769
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      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
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                PAGE 245
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565650.46	4191814.22	0.61647	565670.46	4191814.22	0.67095
565690.46	4191814.22	0.72939	565710.46	4191814.22	0.79250
565570.46	4191834.22	0.46254	565590.46	4191834.22	0.49597
565610.46	4191834.22	0.53346	565630.46	4191834.22	0.57345
565650.46	4191834.22	0.62258	565670.46	4191834.22	0.67757
565690.46	4191834.22	0.73738	565710.46	4191834.22	0.80284
565570.46	4191854.22	0.46577	565590.46	4191854.22	0.50010
565610.46	4191854.22	0.53807	565630.46	4191854.22	0.57919
565650.46	4191854.22	0.62723	565670.46	4191854.22	0.68150
565690.46	4191854.22	0.74247	565710.46	4191854.22	0.81110
565570.46	4191874.22	0.46906	565590.46	4191874.22	0.50411
565610.46	4191874.22	0.54248	565630.46	4191874.22	0.58519
565650.46	4191874.22	0.63429	565670.46	4191874.22	0.68981
565690.46	4191874.22	0.75241	565710.46	4191874.22	0.82299
565570.46	4191894.22	0.47312	565590.46	4191894.22	0.50885
565610.46	4191894.22	0.54807	565630.46	4191894.22	0.59226
565650.46	4191894.22	0.64224	565670.46	4191894.22	0.69897
565690.46	4191894.22	0.76297	565710.46	4191894.22	0.83493
565570.46	4191914.22	0.47795	565590.46	4191914.22	0.51443
565610.46	4191914.22	0.55501	565630.46	4191914.22	0.60061
565650.46	4191914.22	0.65121	565670.46	4191914.22	0.70910
565690.46	4191914.22	0.77420	565710.46	4191914.22	0.84664
565570.46	4191934.22	0.48596	565590.46	4191934.22	0.52353
565610.46	4191934.22	0.56504	565630.46	4191934.22	0.61080
565650.46	4191934.22	0.66129	565670.46	4191934.22	0.71864
565690.46	4191934.22	0.78349	565710.46	4191934.22	0.85682
565570.46	4191954.22	0.49503	565590.46	4191954.22	0.53374

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         565610.46    4191954.22        0.57626                      565630.46    4191954.22
0.62195
         565650.46    4191954.22        0.67250                      565670.46    4191954.22
0.72923
         565690.46    4191954.22        0.79389                      565710.46    4191954.22
0.86856
         565570.46    4191974.22        0.50533                      565590.46    4191974.22
0.54514
         565610.46    4191974.22        0.58879                      565630.46    4191974.22
0.63448
         565650.46    4191974.22        0.68550                      565670.46    4191974.22
0.74194
         565690.46    4191974.22        0.80686                      565710.46    4191974.22
0.88391
         565570.46    4191994.22        0.51415                      565590.46    4191994.22
0.55521
         565610.46    4191994.22        0.60071                      565630.46    4191994.22
0.64913
         565650.46    4191994.22        0.70109                      565670.46    4191994.22
0.75923
         565690.46    4191994.22        0.82609                      565710.46    4191994.22
0.90473
         565570.46    4192014.22        0.52143                      565590.46    4192014.22
0.56296
         565610.46    4192014.22        0.61059                      565630.46    4192014.22
0.66323
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
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                PAGE 246
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)
CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
         565650.46    4192014.22        0.71597                      565670.46    4192014.22
0.77529
         565690.46    4192014.22        0.84369                      565710.46    4192014.22
0.92403
         565570.46    4192034.22        0.52605                      565590.46    4192034.22
0.56642
         565610.46    4192034.22        0.61673                      565630.46    4192034.22
```

0.67548
565650.46 4192034.22 0.72854 565670.46 4192034.22
0.78697
565690.46 4192034.22 0.85545 565710.46 4192034.22
0.93824
565570.46 4192054.22 0.53214 565590.46 4192054.22
0.57245
565610.46 4192054.22 0.62298 565630.46 4192054.22
0.68244
565650.46 4192054.22 0.73679 565670.46 4192054.22
0.79687
565690.46 4192054.22 0.86741 565570.46 4192074.22
0.53951
565590.46 4192074.22 0.58032 565610.46 4192074.22
0.62953
565630.46 4192074.22 0.68653 565650.46 4192074.22
0.74181
565670.46 4192074.22 0.80332 565690.46 4192074.22
0.87387
565570.46 4192094.22 0.54994 565590.46 4192094.22
0.59195
565610.46 4192094.22 0.63766 565630.46 4192094.22
0.68835
565650.46 4192094.22 0.74377 565570.46 4192114.22
0.55364
565590.46 4192114.22 0.59572 565610.46 4192114.22
0.64014
565630.46 4192114.22 0.68871 565650.46 4192114.22
0.74327
565570.46 4192134.22 0.55412 565590.46 4192134.22
0.59589
565610.46 4192134.22 0.63975 565630.46 4192134.22
0.68747
565570.46 4192154.22 0.55287 565590.46 4192154.22
0.59456
565610.46 4192154.22 0.63833 565630.46 4192154.22
0.68490
565570.46 4192174.22 0.55325 565590.46 4192174.22
0.59368
565610.46 4192174.22 0.63574 565630.46 4192174.22
0.67351
565690.46 4192174.22 0.90119 565710.46 4192174.22
0.91300
565730.46 4192174.22 0.92840 565750.46 4192174.22
0.95943
565770.46 4192174.22 0.97359 565790.46 4192174.22
0.96856
565810.46 4192174.22 0.98295 565570.46 4192194.22
0.55348
565590.46 4192194.22 0.59153 565610.46 4192194.22
0.62666
565630.46 4192194.22 0.74184 565650.46 4192194.22
0.80554
565670.46 4192194.22 0.82906 565690.46 4192194.22
0.82975
565710.46 4192194.22 0.83117 565730.46 4192194.22
0.84887
565750.46 4192194.22 0.87414 565770.46 4192194.22
0.91246
565790.46 4192194.22 0.93783 565810.46 4192194.22
0.95688

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565570.46	4192214.22	0.55253	565590.46	4192214.22	0.58425
565610.46	4192214.22	0.68994	565630.46	4192214.22	0.74817
565650.46	4192214.22	0.76058	565670.46	4192214.22	0.75328
565690.46	4192214.22	0.75099	565710.46	4192214.22	0.75815
565730.46	4192214.22	0.77034	565750.46	4192214.22	0.79311
565770.46	4192214.22	0.82866	565790.46	4192214.22	0.86642
565810.46	4192214.22	0.89928	565570.46	4192234.22	0.54629
565590.46	4192234.22	0.62869	565610.46	4192234.22	0.70195
565630.46	4192234.22	0.71265	565650.46	4192234.22	0.69821
565670.46	4192234.22	0.68860	565690.46	4192234.22	0.69306
565710.46	4192234.22	0.70376	565730.46	4192234.22	0.71709
565750.46	4192234.22	0.73932	565770.46	4192234.22	0.76893
565790.46	4192234.22	0.80327	565810.46	4192234.22	0.83717
566610.64	4191596.95	2.03019	566594.96	4191572.56	1.90557
566676.84	4191551.66	1.65063	566582.76	4191498.52	1.52548
566607.15	4191478.49	1.42059	566639.38	4191459.32	1.25773
566587.99	4191437.55	1.10339	566635.90	4191431.45	

1.05030
566616.73 4191406.19 0.87784 566600.18 4191377.44
0.71094
566633.29 4191315.60 0.50176 566669.00 4191327.79
0.55302
566868.47 4191523.78 1.02458 566871.96 4191416.64
0.78711
566934.68 4191400.96 0.69992

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565570.46	4191234.22	149.94385	(12121108)	565590.46	4191234.22	154.31861	(12121108)
565610.46	4191234.22	157.61572	(12121108)	565630.46	4191234.22	159.52220	(12121108)
565650.46	4191234.22	160.03833	(12121108)	565670.46	4191234.22	159.07451	(12121108)
565690.46	4191234.22	156.50168	(12121108)	565710.46	4191234.22	153.55062	(13122708)
565730.46	4191234.22	165.04378	(13122708)	565750.46	4191234.22	175.40002	(13122708)
565770.46	4191234.22	184.27542	(13122708)	565790.46	4191234.22	191.15126	(13122708)
565810.46	4191234.22	195.39130	(13122708)	565830.46	4191234.22	196.80841	(13122708)
565850.46	4191234.22	201.89879	(11120608)	565870.46	4191234.22	208.20478	(11120608)
565890.46	4191234.22	211.20620	(11120608)	565910.46	4191234.22	210.39087	(11120608)
565930.46	4191234.22	205.95103	(11120608)	565950.46	4191234.22	198.35349	(11120608)
565970.46	4191234.22	187.33640	(11120608)	565990.46	4191234.22	178.51387	(10122208)
566010.46	4191234.22	176.01374	(10122208)	566030.46	4191234.22	171.34501	(10122208)
566050.46	4191234.22	164.70608	(10122208)	566070.46	4191234.22	155.65840	(10122208)
566090.46	4191234.22	144.49176	(10122208)	566110.46	4191234.22	131.73818	(10122208)
566130.46	4191234.22	124.79648	(09022708)	566150.46	4191234.22	142.68207	(12011608)
566170.46	4191234.22	164.89695	(12011608)	566190.46	4191234.22		

186.48594 (12011608)
        566210.46   4191234.22   206.15148 (12011608)   566230.46   4191234.22
222.58078 (12011608)
        566250.46   4191234.22   234.44014 (12011608)   566270.46   4191234.22
311.84103 (12011608)
        566290.46   4191234.22   370.97966 (12011608)   566310.46   4191234.22
353.39624 (12011608)
        566330.46   4191234.22   286.89184 (12011608)   566350.46   4191234.22
237.25086 (13011108)
        566370.46   4191234.22   279.26496 (13011108)   566390.46   4191234.22
307.28277 (13011108)
        566410.46   4191234.22   302.99528 (13011108)   566430.46   4191234.22
262.78745 (13011108)
        566450.46   4191234.22   238.47274 (10121508)   566470.46   4191234.22
247.88664 (10121508)
        566490.46   4191234.22   235.83343 (10121508)   566510.46   4191234.22
241.84967 (09121808)
        566530.46   4191234.22   242.49721 (09121808)   566550.46   4191234.22
224.80401 (09121808)
        566570.46   4191234.22   192.58059 (09121808)   565570.46   4191254.22
153.17477 (13121908)
        565590.46   4191254.22   156.91630 (12121108)   565610.46   4191254.22
161.51561 (12121108)
        565630.46   4191254.22   164.80950 (12121108)   565650.46   4191254.22
166.71655 (12121108)
        565670.46   4191254.22   167.13221 (12121108)   565690.46   4191254.22
165.92190 (12121108)
        565710.46   4191254.22   162.94259 (12121108)   565730.46   4191254.22
163.91209 (13122708)
        565750.46   4191254.22   175.84105 (13122708)   565770.46   4191254.22
186.45497 (13122708)
        565790.46   4191254.22   195.22145 (13122708)   565810.46   4191254.22
201.49925 (13122708)
        565830.46   4191254.22   205.05983 (13122708)   565850.46   4191254.22
206.41569 (11120608)
        565870.46   4191254.22   214.83090 (11120608)   565890.46   4191254.22
219.89188 (11120608)
        565910.46   4191254.22   221.06631 (11120608)   565930.46   4191254.22
218.18733 (11120608)
        565950.46   4191254.22   211.58156 (11120608)   565970.46   4191254.22
201.18822 (11120608)
        565990.46   4191254.22   187.43218 (11120608)   566010.46   4191254.22
185.31758 (10122208)
        566030.46   4191254.22   181.18067 (10122208)   566050.46   4191254.22
175.14026 (10122208)
        566070.46   4191254.22   166.26450 (10122208)   566090.46   4191254.22
154.85211 (10122208)
        566110.46   4191254.22   141.56938 (10122208)   566130.46   4191254.22
131.18269 (09022708)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566150.46	4191254.22	151.13105	(12011608)	566170.46	4191254.22	174.70948	(12011608)
566190.46	4191254.22	197.26884	(12011608)	566210.46	4191254.22	217.72512	(12011608)
566230.46	4191254.22	234.62043	(12011608)	566250.46	4191254.22	246.34353	(12011608)
566270.46	4191254.22	350.13576	(12011608)	566290.46	4191254.22	386.31932	(12011608)
566310.46	4191254.22	346.66295	(12011608)	566330.46	4191254.22	280.68102	(12011608)
566350.46	4191254.22	258.61073	(13011108)	566370.46	4191254.22	299.95096	(13011108)
566390.46	4191254.22	319.78572	(13011108)	566410.46	4191254.22	302.59589	(13011108)
566430.46	4191254.22	249.16244	(13011108)	566450.46	4191254.22	254.43406	(10121508)
566470.46	4191254.22	254.36641	(10121508)	566490.46	4191254.22	244.70207	(09121808)
566510.46	4191254.22	255.01262	(09121808)	566530.46	4191254.22	244.98160	(09121808)
566550.46	4191254.22	216.52832	(09121808)	566570.46	4191254.22	175.66544	(09121808)
565570.46	4191274.22	157.78290	(12120308)	565590.46	4191274.22	160.43961	(13121908)
565610.46	4191274.22	164.33660	(12121108)	565630.46	4191274.22	169.11867	(12121108)
565650.46	4191274.22	172.60523	(12121108)	565670.46	4191274.22	174.59528	(12121108)
565690.46	4191274.22	174.86922	(12121108)	565710.46	4191274.22	173.29498	(12121108)
565730.46	4191274.22	169.79533	(12121108)	565750.46	4191274.22	175.21336	(13122708)
565770.46	4191274.22	187.59906	(13122708)	565790.46	4191274.22	198.32820	(13122708)
565810.46	4191274.22	206.85539	(13122708)	565830.46	4191274.22	212.78525	(13122708)
565850.46	4191274.22	215.46290	(13122708)	565870.46	4191274.22	220.93841	(11120608)
565890.46	4191274.22	228.41552	(11120608)	565910.46	4191274.22	231.79075	(11120608)
565930.46	4191274.22	230.87093	(11120608)	565950.46	4191274.22	225.61428	(11120608)
565970.46	4191274.22	216.01922	(11120608)	565990.46	4191274.22	202.44070	(11120608)
566010.46	4191274.22	195.07266	(10122208)	566030.46	4191274.22	191.30569	(10122208)
566050.46	4191274.22	185.97581	(10122208)	566070.46	4191274.22	177.40050	(10122208)
566090.46	4191274.22	165.85876	(10122208)	566110.46	4191274.22	152.13944	(10122208)
566130.46	4191274.22	137.99380	(09022708)	566150.46	4191274.22	160.26459	(12011608)

566170.46 4191274.22 185.20515 (12011608) 566190.46 4191274.22 208.71169 (12011608)
566210.46 4191274.22 230.06001 (12011608) 566230.46 4191274.22 247.56259 (12011608)
566250.46 4191274.22 259.01856 (12011608) 566270.46 4191274.22 381.37196 (12011608)
566290.46 4191274.22 397.34374 (12011608) 566310.46 4191274.22 347.10478 (12011608)
566330.46 4191274.22 280.46299 (12011608) 566350.46 4191274.22 281.12106 (13011108)
566370.46 4191274.22 316.97979 (13011108) 566390.46 4191274.22 326.18140 (13011108)
566410.46 4191274.22 295.50129 (13011108) 566430.46 4191274.22 252.74639 (10121508)
566450.46 4191274.22 264.57400 (10121508) 566470.46 4191274.22 253.30877 (10121508)
566490.46 4191274.22 260.48505 (09121808) 566510.46 4191274.22 260.29772 (09121808)
566530.46 4191274.22 239.22585 (09121808) 566550.46 4191274.22 201.10293 (09121808)
566570.46 4191274.22 153.69156 (09121808) 565570.46 4191294.22 161.71963 (12120308)
565590.46 4191294.22 165.49303 (12120308) 565610.46 4191294.22 168.07957 (13121908)
565630.46 4191294.22 172.37263 (12121108) 565650.46 4191294.22 177.58608 (12121108)
565670.46 4191294.22 181.31774 (12121108) 565690.46 4191294.22 183.28664 (12121108)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565710.46	4191294.22	183.32865	(12121108)	565730.46	4191294.22	181.41575	(12121108)
565750.46	4191294.22	177.33944	(12121108)	565770.46	4191294.22	187.75214	(13122708)
565790.46	4191294.22	200.51231	(13122708)	565810.46	4191294.22	211.37116	(13122708)
565830.46	4191294.22	219.83715	(13122708)	565850.46	4191294.22	224.98882	(13122708)
565870.46	4191294.22	226.74801	(13122708)	565890.46	4191294.22	236.65858	(11120608)
565910.46	4191294.22	242.67754	(11120608)	565930.46	4191294.22	244.34870	(11120608)

565950.46 4191294.22 241.05152 (11120608) 565970.46 4191294.22
232.49044 (11120608)
565990.46 4191294.22 219.19428 (11120608) 566010.46 4191294.22
205.83629 (10122208)
566030.46 4191294.22 202.33012 (10122208) 566050.46 4191294.22
196.91062 (10122208)
566070.46 4191294.22 188.62157 (10122208) 566090.46 4191294.22
177.16192 (10122208)
566110.46 4191294.22 163.24242 (10122208) 566130.46 4191294.22
147.57772 (10122208)
566150.46 4191294.22 169.82506 (12011608) 566170.46 4191294.22
196.43367 (12011608)
566190.46 4191294.22 221.16777 (12011608) 566210.46 4191294.22
243.47924 (12011608)
566230.46 4191294.22 261.49545 (12011608) 566250.46 4191294.22
311.66880 (12011608)
566270.46 4191294.22 403.38956 (12011608) 566290.46 4191294.22
411.43726 (12011608)
566310.46 4191294.22 356.97307 (12011608) 566330.46 4191294.22
285.47905 (12011608)
566350.46 4191294.22 302.25315 (13011108) 566370.46 4191294.22
327.98541 (13011108)
566390.46 4191294.22 324.81468 (13011108) 566410.46 4191294.22
281.72837 (13011108)
566430.46 4191294.22 264.96358 (10121508) 566450.46 4191294.22
267.07114 (10121508)
566470.46 4191294.22 259.79636 (09121808) 566490.46 4191294.22
269.28000 (09121808)
566510.46 4191294.22 257.60889 (09121808) 566530.46 4191294.22
225.66292 (09121808)
566550.46 4191294.22 179.85518 (09121808) 566570.46 4191294.22
129.64130 (09121808)
565570.46 4191314.22 164.26640 (12120308) 565590.46 4191314.22
169.57452 (12120308)
565610.46 4191314.22 173.59612 (12120308) 565630.46 4191314.22
176.57110 (13121908)
565650.46 4191314.22 181.42290 (12121108) 565670.46 4191314.22
186.97641 (12121108)
565690.46 4191314.22 190.81598 (12121108) 565710.46 4191314.22
192.71008 (12121108)
565730.46 4191314.22 192.65891 (12121108) 565750.46 4191314.22
190.27990 (12121108)
565770.46 4191314.22 186.86717 (13122708) 565790.46 4191314.22
201.71331 (13122708)
565810.46 4191314.22 214.86119 (13122708) 565830.46 4191314.22
225.91259 (13122708)
565850.46 4191314.22 233.87745 (13122708) 565870.46 4191314.22
238.31585 (13122708)
565890.46 4191314.22 244.28177 (11120608) 565910.46 4191314.22
253.25872 (11120608)
565930.46 4191314.22 257.99342 (11120608) 565950.46 4191314.22
257.04699 (11120608)
565970.46 4191314.22 250.07901 (11120608) 565990.46 4191314.22
237.56316 (11120608)
566010.46 4191314.22 220.46018 (11120608) 566030.46 4191314.22
214.97041 (10122208)
566050.46 4191314.22 209.17467 (10122208) 566070.46 4191314.22
200.95640 (10122208)
566090.46 4191314.22 189.66507 (10122208) 566110.46 4191314.22
175.46610 (10122208)
566130.46 4191314.22 159.04947 (10122208) 566150.46 4191314.22

179.86620 (12011608)
        566170.46   4191314.22   208.60941 (12011608)   566190.46   4191314.22
234.91907 (12011608)
        566210.46   4191314.22   258.20595 (12011608)   566230.46   4191314.22
276.64914 (12011608)
        566250.46   4191314.22   328.98782 (12011608)   566270.46   4191314.22
423.20287 (12011608)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

271.68038 (11120608)
        565950.46   4191334.22   273.45894 (11120608)   565970.46   4191334.22
268.71546 (11120608)
        565990.46   4191334.22   257.73764 (11120608)   566010.46   4191334.22
241.16291 (11120608)
        566030.46   4191334.22   229.21830 (10122208)   566050.46   4191334.22
222.89456 (10122208)
        566070.46   4191334.22   214.58823 (10122208)   566090.46   4191334.22
203.47315 (10122208)
        566110.46   4191334.22   188.98762 (10122208)   566130.46   4191334.22
171.51033 (10122208)
        566150.46   4191334.22   190.48191 (12011608)   566170.46   4191334.22
221.86880 (12011608)
        566190.46   4191334.22   250.08297 (12011608)   566210.46   4191334.22
274.41610 (12011608)
        566230.46   4191334.22   293.10111 (12011608)   566250.46   4191334.22
304.63687 (12011608)
        566270.46   4191334.22   437.26886 (12011608)   566290.46   4191334.22
457.34617 (12011608)
        566310.46   4191334.22   407.42361 (12011608)   566330.46   4191334.22
365.28073 (13011108)
        566350.46   4191334.22   356.34584 (13011108)   566370.46   4191334.22
338.55434 (13011108)
        566390.46   4191334.22   304.82438 (13011108)   566410.46   4191334.22
265.72125 (10121508)
        566430.46   4191334.22   273.53264 (10121508)   566450.46   4191334.22
273.25697 (09121808)
        566470.46   4191334.22   284.43802 (09121808)   566490.46   4191334.22
269.59284 (09121808)
        566510.46   4191334.22   233.63282 (09121808)   566530.46   4191334.22
183.82530 (09121808)
        566550.46   4191334.22   130.59478 (09121808)   566570.46   4191334.22
108.71063 (09020908)
        565570.46   4191354.22   172.04814 (12120708)   565590.46   4191354.22
175.42605 (12120708)
        565610.46   4191354.22   180.58002 (12120308)   565630.46   4191354.22
187.17609 (12120308)
        565650.46   4191354.22   192.30444 (12120308)   565670.46   4191354.22
195.83137 (13121908)
        565690.46   4191354.22   201.73383 (12121108)   565710.46   4191354.22
208.24115 (12121108)
        565730.46   4191354.22   212.71166 (12121108)   565750.46   4191354.22
214.66330 (12121108)
        565770.46   4191354.22   214.01115 (12121108)   565790.46   4191354.22
210.54197 (12121108)
        565810.46   4191354.22   217.94875 (13122708)   565830.46   4191354.22
234.37447 (13122708)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565850.46	4191354.22	248.78441	(13122708)	565870.46	4191354.22	259.89735	(13122708)
565890.46	4191354.22	266.37568	(13122708)	565910.46	4191354.22	272.85114	(11120608)
565930.46	4191354.22	284.62328	(11120608)	565950.46	4191354.22	290.00007	(11120608)
565970.46	4191354.22	288.37638	(11120608)	565990.46	4191354.22	279.65836	(11120608)
566010.46	4191354.22	264.37113	(11120608)	566030.46	4191354.22	245.65625	(10122208)
566050.46	4191354.22	240.75238	(10122208)	566070.46	4191354.22	231.63240	(10122208)
566090.46	4191354.22	219.72792	(10122208)	566110.46	4191354.22	205.14579	(10122208)
566130.46	4191354.22	187.19003	(10122208)	566150.46	4191354.22	202.81920	(12011608)
566170.46	4191354.22	235.04194	(12011608)	566190.46	4191354.22	265.75560	(12011608)
566210.46	4191354.22	292.00532	(12011608)	566230.46	4191354.22	310.94022	(12011608)
566250.46	4191354.22	378.73135	(12011608)	566270.46	4191354.22	454.94260	(12011608)
566290.46	4191354.22	477.82066	(12011608)	566310.46	4191354.22	435.49493	(12011608)
566330.46	4191354.22	418.08458	(13011108)	566350.46	4191354.22	388.06916	(13011108)
566370.46	4191354.22	346.72008	(13011108)	566390.46	4191354.22	294.00641	(13011108)
566410.46	4191354.22	275.47353	(10121508)	566430.46	4191354.22	274.29536	(10121508)
566450.46	4191354.22	288.62866	(09121808)	566470.46	4191354.22	287.61800	(09121808)
566490.46	4191354.22	259.58249	(09121808)	566510.46	4191354.22	213.04290	(09121808)
566530.46	4191354.22	158.28804	(09121808)	566550.46	4191354.22	117.08708	(09020908)
566570.46	4191354.22	101.77692	(09020908)	565570.46	4191374.22	175.78082	(12120708)
565590.46	4191374.22	180.86227	(12120708)	565610.46	4191374.22	184.77977	(12120708)
565630.46	4191374.22	189.85138	(12120308)	565650.46	4191374.22	197.16950	(12120308)
565670.46	4191374.22	202.91259	(12120308)	565690.46	4191374.22	206.91122	(13121908)
565710.46	4191374.22	213.66762	(12121108)	565730.46	4191374.22	220.70860	(12121108)
565750.46	4191374.22	225.33127	(12121108)	565770.46	4191374.22	227.33109	(12121108)
565790.46	4191374.22	226.34818	(12121108)	565810.46	4191374.22	222.18235	(12121108)
565830.46	4191374.22	236.42287	(13122708)	565850.46	4191374.22	254.26302	(13122708)
565870.46	4191374.22	269.16669	(13122708)	565890.46	4191374.22	279.52372	(13122708)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565910.46	4191374.22	284.40038	(13122708)	565930.46	4191374.22	297.19837	(11120608)
565950.46	4191374.22	306.83561	(11120608)	565970.46	4191374.22	309.02498	(11120608)
565990.46	4191374.22	303.56064	(11120608)	566010.46	4191374.22	290.44781	(11120608)
566030.46	4191374.22	270.21489	(11120608)	566050.46	4191374.22	261.19854	(10122208)
566070.46	4191374.22	252.58418	(10122208)	566090.46	4191374.22	241.43846	(10122208)
566110.46	4191374.22	227.15741	(10122208)	566130.46	4191374.22	207.73489	(10122208)
566150.46	4191374.22	218.78398	(12011608)	566170.46	4191374.22	251.94107	(12011608)
566190.46	4191374.22	283.60590	(12011608)	566210.46	4191374.22	311.12998	(12011608)
566230.46	4191374.22	330.56397	(12011608)	566250.46	4191374.22	413.28625	(12011608)
566270.46	4191374.22	476.63687	(12011608)	566290.46	4191374.22	495.30979	(12011608)
566310.46	4191374.22	468.96732	(13011108)	566330.46	4191374.22	465.41725	(13011108)
566350.46	4191374.22	418.49079	(13011108)	566370.46	4191374.22	354.82442	(13011108)
566390.46	4191374.22	283.70041	(10121508)	566410.46	4191374.22	281.79812	(10121508)
566430.46	4191374.22	284.57637	(09121808)	566450.46	4191374.22	296.51756	(09121808)
566470.46	4191374.22	282.30528	(09121808)	566490.46	4191374.22	242.33643	(09121808)
566510.46	4191374.22	188.27719	(09121808)	566530.46	4191374.22	131.79126	(09121808)
566550.46	4191374.22	110.77688	(09020908)	566570.46	4191374.22	122.84750	(13011008)
565570.46	4191394.22	178.41989	(11020308)	565590.46	4191394.22	184.55618	(12120708)
565610.46	4191394.22	190.38422	(12120708)	565630.46	4191394.22	195.07327	(12120708)
565650.46	4191394.22	200.03124	(12120308)	565670.46	4191394.22	208.31856	(12120308)

565690.46 4191394.22 214.90982 (12120308) 565710.46 4191394.22
219.42327 (13121908)
565730.46 4191394.22 226.82770 (12121108) 565750.46 4191394.22
234.46755 (12121108)
565770.46 4191394.22 239.43217 (12121108) 565790.46 4191394.22
241.37355 (12121108)
565810.46 4191394.22 240.08111 (12121108) 565830.46 4191394.22
236.69508 (13122708)
565850.46 4191394.22 258.04132 (13122708) 565870.46 4191394.22
276.92576 (13122708)
565890.46 4191394.22 291.53338 (13122708) 565910.46 4191394.22
300.68267 (13122708)
565930.46 4191394.22 309.14531 (11120608) 565950.46 4191394.22
323.74577 (11120608)
565970.46 4191394.22 330.51262 (11120608) 565990.46 4191394.22
329.44096 (11120608)
566010.46 4191394.22 319.75685 (11120608) 566030.46 4191394.22
301.04247 (11120608)
566050.46 4191394.22 284.60566 (10122208) 566070.46 4191394.22
278.49343 (10122208)
566090.46 4191394.22 269.95668 (10122208) 566110.46 4191394.22
255.36594 (10122208)
566130.46 4191394.22 231.74664 (10122208) 566150.46 4191394.22
236.46462 (12011608)
566170.46 4191394.22 272.09834 (12011608) 566190.46 4191394.22
303.94984 (12011608)
566210.46 4191394.22 332.06608 (12011608) 566230.46 4191394.22
352.30102 (12011608)
566250.46 4191394.22 446.76886 (12011608) 566270.46 4191394.22
505.54571 (12011608)
566290.46 4191394.22 514.67829 (12011608) 566310.46 4191394.22
508.13370 (13011108)
566330.46 4191394.22 500.74545 (13011108) 566350.46 4191394.22
443.76624 (13011108)
566370.46 4191394.22 362.27878 (13011108) 566390.46 4191394.22
306.01203 (10121508)
566410.46 4191394.22 285.67947 (10121508) 566430.46 4191394.22
293.78552 (09121808)
566450.46 4191394.22 293.41835 (09121808) 566470.46 4191394.22
267.77973 (09121808)
566490.46 4191394.22 219.20665 (09121808) 566510.46 4191394.22
161.58782 (09121808)
566530.46 4191394.22 119.89720 (09020908) 566550.46 4191394.22
128.06508 (13011008)
566570.46 4191394.22 150.59538 (13011008) 565570.46 4191414.22
180.74875 (12123108)
565590.46 4191414.22 187.34141 (11020308) 565610.46 4191414.22
194.06230 (12120708)
565630.46 4191414.22 200.96533 (12120708) 565650.46 4191414.22
206.63588 (12120708)
565670.46 4191414.22 211.60584 (12120308) 565690.46 4191414.22
220.97057 (12120308)
565710.46 4191414.22 228.30531 (12120308) 565730.46 4191414.22
233.31031 (12120308)
565750.46 4191414.22 241.68237 (12121108) 565770.46 4191414.22
249.90148 (12121108)
565790.46 4191414.22 255.08475 (12121108) 565810.46 4191414.22
257.15534 (12121108)
565830.46 4191414.22 255.63915 (12121108) 565850.46 4191414.22
259.66344 (13122708)
565870.46 4191414.22 282.64490 (13122708) 565890.46 4191414.22

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

219.61806 (12120708)
        565690.46   4191434.22   224.74895 (12120708)   565710.46   4191434.22
234.81566 (12120308)
        565730.46   4191434.22   243.04350 (12120308)   565750.46   4191434.22
248.91377 (12120308)
        565770.46   4191434.22   258.08268 (12121108)   565790.46   4191434.22
266.98893 (12121108)
        565810.46   4191434.22   272.95951 (12121108)   565830.46   4191434.22
275.29709 (12121108)
        565850.46   4191434.22   273.50319 (12121108)   565870.46   4191434.22
286.17044 (13122708)
        565890.46   4191434.22   310.43862 (13122708)   565910.46   4191434.22
329.86910 (13122708)
        565930.46   4191434.22   344.23985 (13122708)   565950.46   4191434.22
355.12115 (11120608)
        565970.46   4191434.22   373.74350 (11120608)   565990.46   4191434.22
384.51956 (11120608)
        566010.46   4191434.22   386.20477 (11120608)   566030.46   4191434.22
377.16136 (11120608)
        566050.46   4191434.22   356.57108 (11120608)   566070.46   4191434.22
345.32973 (10122208)
        566090.46   4191434.22   333.03649 (10122208)   566110.46   4191434.22
307.21449 (10122208)
        566130.46   4191434.22   284.12916 (10121309)   566150.46   4191434.22
290.52308 (12011609)
        566170.46   4191434.22   315.79799 (09022708)   566190.46   4191434.22
367.30568 (12011608)
        566210.46   4191434.22   456.39120 (12011608)   566230.46   4191434.22
515.53175 (12011608)
        566250.46   4191434.22   562.22865 (12011608)   566270.46   4191434.22
579.00156 (12011608)
        566290.46   4191434.22   534.09788 (12011608)   566310.46   4191434.22
546.83635 (13011108)
        566330.46   4191434.22   513.40203 (13011108)   566350.46   4191434.22
424.82892 (13011108)
        566370.46   4191434.22   337.23122 (10121508)   566390.46   4191434.22
316.49408 (10121508)
        566410.46   4191434.22   319.03020 (09121808)   566430.46   4191434.22
308.38501 (09121808)
        566450.46   4191434.22   276.40321 (09121808)   566470.46   4191434.22
226.14895 (09121808)
        566490.46   4191434.22   165.46376 (09121808)   566510.46   4191434.22
139.49769 (13011008)
        566530.46   4191434.22   162.79751 (13011008)   566550.46   4191434.22
183.62143 (13011008)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566570.46	4191434.22	200.35533	(13011008)	565570.46	4191454.22	187.74971	(12123108)
565590.46	4191454.22	195.06643	(12123108)	565610.46	4191454.22	201.74600	(12123108)
565630.46	4191454.22	207.79402	(11020308)	565650.46	4191454.22	216.91541	(11020308)
565670.46	4191454.22	225.93505	(12120708)	565690.46	4191454.22	233.99152	(12120708)
565710.46	4191454.22	239.90613	(12120708)	565730.46	4191454.22	250.03312	(12120308)
565750.46	4191454.22	259.56626	(12120308)	565770.46	4191454.22	266.15617	(12120308)
565790.46	4191454.22	276.48612	(12121108)	565810.46	4191454.22	286.85266	(12121108)
565830.46	4191454.22	293.29838	(12121108)	565850.46	4191454.22	296.02563	(12121108)
565870.46	4191454.22	294.24961	(12121108)	565890.46	4191454.22	316.59406	(13122708)
565910.46	4191454.22	341.78434	(13122708)	565930.46	4191454.22	362.80945	(13122708)
565950.46	4191454.22	376.86134	(13122708)	565970.46	4191454.22	395.15696	(11120608)
565990.46	4191454.22	414.52760	(11120608)	566010.46	4191454.22	425.06640	(11120608)
566030.46	4191454.22	423.34582	(11120608)	566050.46	4191454.22	405.67083	(11120608)
566070.46	4191454.22	378.50531	(10122208)	566090.46	4191454.22	361.12909	(10122208)
566110.46	4191454.22	370.27475	(10122208)	566130.46	4191454.22	308.67460	(10121309)
566150.46	4191454.22	291.53931	(12011609)	566170.46	4191454.22	301.47682	(09022708)
566190.46	4191454.22	333.02835	(09022708)	566210.46	4191454.22	383.38102	(12011608)
566230.46	4191454.22	481.70501	(12011608)	566250.46	4191454.22	541.14621	(12011608)
566270.46	4191454.22	502.25760	(12011608)	566290.46	4191454.22	439.71797	(13011108)
566310.46	4191454.22	464.62360	(13011108)	566330.46	4191454.22	446.36486	(13011108)
566350.46	4191454.22	381.91656	(13011108)	566370.46	4191454.22	340.98470	(10121508)
566390.46	4191454.22	336.71699	(09121808)	566410.46	4191454.22	338.53742	(09121808)
566430.46	4191454.22	312.94445	(09121808)	566450.46	4191454.22	262.95216	(09121808)
566470.46	4191454.22	199.09259	(09121808)	566490.46	4191454.22	145.51784	(13011008)
566510.46	4191454.22	170.83403	(13011008)	566530.46	4191454.22	193.28866	(13011008)
566550.46	4191454.22	209.99988	(13011008)	566570.46	4191454.22	219.55400	(13011008)
565570.46	4191474.22	187.70549	(12123108)	565590.46	4191474.22	196.84921	(12123108)
565610.46	4191474.22	205.77848	(12123108)	565630.46	4191474.22	213.90328	(12123108)

565650.46 4191474.22 220.87555 (12123108) 565670.46 4191474.22 230.17553 (11020308)
565690.46 4191474.22 240.00846 (12120708) 565710.46 4191474.22 249.34923 (12120708)
565730.46 4191474.22 256.52476 (12120708) 565750.46 4191474.22 267.09924 (12120308)
565770.46 4191474.22 278.00498 (12120308) 565790.46 4191474.22 285.95725 (12120308)
565810.46 4191474.22 298.31295 (12121108) 565830.46 4191474.22 309.61772 (12121108)
565850.46 4191474.22 317.96521 (12121108) 565870.46 4191474.22 321.18720 (12121108)
565890.46 4191474.22 319.42021 (13122708) 565910.46 4191474.22 350.38503 (13122708)
565930.46 4191474.22 378.62061 (13122708) 565950.46 4191474.22 401.20713 (13122708)
565970.46 4191474.22 416.11825 (11120608) 565990.46 4191474.22 446.76768 (11120608)
566010.46 4191474.22 467.30755 (11120608) 566030.46 4191474.22 470.47480 (11120608)
566050.46 4191474.22 452.78657 (11120608) 566070.46 4191474.22 412.86365 (11120608)
566090.46 4191474.22 466.18584 (10122208) 566110.46 4191474.22 399.13326 (10122208)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566130.46	4191474.22	310.35147	(10121309)	566150.46	4191474.22	278.79782	(12011609)
566170.46	4191474.22	278.39514	(09022708)	566190.46	4191474.22	302.24442	(09022708)
566210.46	4191474.22	323.44985	(12011608)	566230.46	4191474.22	406.76362	(12011608)
566250.46	4191474.22	459.48989	(12011608)	566270.46	4191474.22	453.43616	(12011608)
566290.46	4191474.22	439.23238	(13011108)	566310.46	4191474.22	470.99755	(13011108)
566330.46	4191474.22	444.64149	(13011108)	566350.46	4191474.22	368.63004	(13011108)
566370.46	4191474.22	356.34477	(10121508)	566390.46	4191474.22	366.07437	(09121808)
566410.46	4191474.22	352.54709	(09121808)	566430.46	4191474.22	306.44244	(09121808)

566450.46 4191474.22 237.92879 (09121808) 566470.46 4191474.22
164.15968 (09121808)
566490.46 4191474.22 179.86443 (13011008) 566510.46 4191474.22
205.81676 (13011008)
566530.46 4191474.22 225.33984 (13011008) 566550.46 4191474.22
235.41631 (13011008)
566570.46 4191474.22 235.31572 (13011008) 565570.46 4191494.22
185.00886 (12123108)
565590.46 4191494.22 196.03325 (12123108) 565610.46 4191494.22
207.12562 (12123108)
565630.46 4191494.22 217.41551 (12123108) 565650.46 4191494.22
227.04491 (12123108)
565670.46 4191494.22 235.45252 (12123108) 565690.46 4191494.22
244.43988 (11020308)
565710.46 4191494.22 255.56829 (12120708) 565730.46 4191494.22
266.72353 (12120708)
565750.46 4191494.22 275.45876 (12120708) 565770.46 4191494.22
286.38132 (12120308)
565790.46 4191494.22 299.38935 (12120308) 565810.46 4191494.22
309.37891 (12120308)
565830.46 4191494.22 322.93810 (12121108) 565850.46 4191494.22
337.57392 (12121108)
565870.46 4191494.22 346.70673 (12121108) 565890.46 4191494.22
348.48885 (12121108)
565910.46 4191494.22 356.28190 (13122708) 565930.46 4191494.22
392.68746 (13122708)
565950.46 4191494.22 424.59697 (13122708) 565970.46 4191494.22
448.17236 (13122708)
565990.46 4191494.22 478.93337 (11120608) 566010.46 4191494.22
509.38092 (11120608)
566030.46 4191494.22 517.87127 (11120608) 566050.46 4191494.22
501.70718 (11120608)
566070.46 4191494.22 506.82790 (10122208) 566090.46 4191494.22
528.89988 (10122208)
566110.46 4191494.22 409.23084 (10122208) 566130.46 4191494.22
297.22064 (10121309)
566150.46 4191494.22 264.44570 (10121309) 566170.46 4191494.22
261.84968 (09022708)
566190.46 4191494.22 288.58573 (13112908) 566210.46 4191494.22
338.61686 (12011608)
566230.46 4191494.22 433.61264 (12011608) 566250.46 4191494.22
487.92885 (12011608)
566270.46 4191494.22 484.26353 (12011608) 566290.46 4191494.22
492.03582 (13011108)
566310.46 4191494.22 508.41508 (13011108) 566330.46 4191494.22
456.50358 (13011108)
566350.46 4191494.22 395.57130 (10121508) 566370.46 4191494.22
387.71213 (09121808)
566390.46 4191494.22 388.23131 (09121808) 566410.46 4191494.22
352.49020 (09121808)
566430.46 4191494.22 284.13094 (09121808) 566450.46 4191494.22
200.66182 (09121808)
566470.46 4191494.22 189.66032 (13011008) 566490.46 4191494.22
219.40010 (13011008)
566510.46 4191494.22 242.91808 (13011008) 566530.46 4191494.22
255.81819 (13011008)
566550.46 4191494.22 255.77957 (13011008) 566570.46 4191494.22
243.60442 (13011008)
565570.46 4191514.22 179.83355 (12123108) 565590.46 4191514.22
192.58425 (12123108)
565610.46 4191514.22 205.24563 (12123108) 565630.46 4191514.22

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: PAREA1   ***

INCLUDING SOURCE(S):   PAREA1   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565690.46	4191514.22	251.40867	(12123108)	565710.46	4191514.22	260.45818	(11020308)
565730.46	4191514.22	273.46668	(11020308)	565750.46	4191514.22	286.25787	(12120708)
565770.46	4191514.22	296.89225	(12120708)	565790.46	4191514.22	308.76517	(12120308)
565810.46	4191514.22	324.57277	(12120308)	565830.46	4191514.22	335.63514	(12120308)
565850.46	4191514.22	353.47436	(12121108)	565870.46	4191514.22	369.39328	(12121108)
565890.46	4191514.22	378.43887	(12121108)	565910.46	4191514.22	380.96812	(12121108)
565930.46	4191514.22	405.27162	(13122708)	565950.46	4191514.22	446.69989	(13122708)
565970.46	4191514.22	482.88873	(13122708)	565990.46	4191514.22	509.59752	(13122708)
566010.46	4191514.22	548.65146	(11120608)	566030.46	4191514.22	564.75188	(11120608)
566050.46	4191514.22	552.56178	(11120608)	566070.46	4191514.22	596.19908	(10122208)
566090.46	4191514.22	568.10766	(10122208)	566110.46	4191514.22	400.17406	(10122208)
566130.46	4191514.22	279.55001	(10121309)	566150.46	4191514.22	260.16847	(10121309)
566170.46	4191514.22	263.22331	(13112908)	566190.46	4191514.22	315.24255	(13112908)
566210.46	4191514.22	374.70907	(12011608)	566230.46	4191514.22	483.14553	(12011608)
566250.46	4191514.22	536.60493	(12011608)	566270.46	4191514.22	512.87702	(12011608)
566290.46	4191514.22	539.58417	(13011108)	566310.46	4191514.22	532.05215	(13011108)
566330.46	4191514.22	454.24072	(13011108)	566350.46	4191514.22	426.20173	(10121508)
566370.46	4191514.22	425.54933	(09121808)	566390.46	4191514.22	398.11857	(09121808)
566410.46	4191514.22	335.15337	(09121808)	566430.46	4191514.22		

247.05171 (09121808)
        566450.46   4191514.22   199.62680 (13011008)   566470.46   4191514.22
234.89295 (13011008)
        566490.46   4191514.22   261.83413 (13011008)   566510.46   4191514.22
277.62291 (13011008)
        566530.46   4191514.22   279.27820 (13011008)   566550.46   4191514.22
265.89335 (13011008)
        566570.46   4191514.22   240.22987 (13011008)   565570.46   4191534.22
178.19125 (12011708)
        565590.46   4191534.22   185.63039 (12123108)   565610.46   4191534.22
199.68938 (12123108)
        565630.46   4191534.22   214.09515 (12123108)   565650.46   4191534.22
228.51018 (12123108)
        565670.46   4191534.22   242.61237 (12123108)   565690.46   4191534.22
256.14512 (12123108)
        565710.46   4191534.22   268.89889 (12123108)   565730.46   4191534.22
280.00423 (12123108)
        565750.46   4191534.22   293.26119 (11020308)   565770.46   4191534.22
307.87768 (12120708)
        565790.46   4191534.22   321.21936 (12120708)   565810.46   4191534.22
334.19300 (12120308)
        565830.46   4191534.22   352.39336 (12120308)   565850.46   4191534.22
367.87468 (12120308)
        565870.46   4191534.22   387.65686 (12121108)   565890.46   4191534.22
405.52432 (12121108)
        565910.46   4191534.22   417.70567 (12121108)   565930.46   4191534.22
424.33100 (12121108)
        565950.46   4191534.22   464.64326 (13122708)   565970.46   4191534.22
511.47199 (13122708)
        565990.46   4191534.22   549.57770 (13122708)   566010.46   4191534.22
584.92134 (11120608)
        566030.46   4191534.22   613.20987 (11120608)   566050.46   4191534.22
605.91092 (11120608)
        566070.46   4191534.22   671.93632 (11120608)   566090.46   4191534.22
574.88215 (10122208)
        566110.46   4191534.22   394.41899 (10122208)   566130.46   4191534.22
276.75633 (10121309)
        566150.46   4191534.22   274.34959 (10121309)   566170.46   4191534.22
284.80654 (13112908)
        566190.46   4191534.22   346.23147 (13112908)   566210.46   4191534.22
418.15583 (12011608)
        566230.46   4191534.22   533.90629 (12011608)   566250.46   4191534.22
576.23222 (12011608)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

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CONC     (YYMMDDHH)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566410.46	4191554.22	253.48414	(09121808)	566430.46	4191554.22	267.20885	(13011008)
566450.46	4191554.22	303.23377	(13011008)	566470.46	4191554.22	323.23227	(13011008)
566490.46	4191554.22	323.31161	(13011008)	566510.46	4191554.22	304.54679	(13011008)
566530.46	4191554.22	271.03958	(13011008)	566550.46	4191554.22	243.68262	(12010208)
566570.46	4191554.22	249.05300	(12010208)	565570.46	4191574.22	187.05066	(12010508)
565590.46	4191574.22	193.75348	(12010508)	565610.46	4191574.22	200.29509	(12010508)
565630.46	4191574.22	206.62524	(12010508)	565650.46	4191574.22	215.93081	(12011708)
565670.46	4191574.22	232.15951	(12123108)	565690.46	4191574.22	251.24273	(12123108)
565710.46	4191574.22	270.80266	(12123108)	565730.46	4191574.22	290.60798	(12123108)
565750.46	4191574.22	309.14882	(12123108)	565770.46	4191574.22	326.02183	(12123108)
565790.46	4191574.22	340.77096	(12123108)	565810.46	4191574.22	361.03765	(12120708)
565830.46	4191574.22	380.81481	(12120708)	565850.46	4191574.22	398.33865	(12120708)
565870.46	4191574.22	425.72305	(12120308)	565890.46	4191574.22	449.71031	(12120308)
565910.46	4191574.22	481.40616	(12121108)	565930.46	4191574.22	511.46924	(12121108)
565950.46	4191574.22	526.85037	(12121108)	565970.46	4191574.22	547.37887	(13122708)
565990.46	4191574.22	618.17669	(13122708)	566010.46	4191574.22	676.65883	(13122708)
566030.46	4191574.22	704.13701	(11120608)	566050.46	4191574.22	917.75160	(11120608)
566070.46	4191574.22	779.18824	(11120608)	566090.46	4191574.22	579.62814	(10122208)
566110.46	4191574.22	482.04548	(10122208)	566130.46	4191574.22	364.86047	(10122208)
566150.46	4191574.22	327.55713	(10121309)	566170.46	4191574.22	335.39580	(13112908)

566190.46 4191574.22 415.27384 (13112908) 566210.46 4191574.22
528.43851 (12011608)
566230.46 4191574.22 635.03330 (12011608) 566250.46 4191574.22
635.38611 (12011608)
566270.46 4191574.22 634.36652 (13011108) 566290.46 4191574.22
617.61989 (13011108)
566310.46 4191574.22 537.69197 (10121508) 566330.46 4191574.22
527.17657 (09121808)
566350.46 4191574.22 509.30738 (09121808) 566370.46 4191574.22
435.99375 (09121808)
566390.46 4191574.22 319.54156 (09121808) 566410.46 4191574.22
286.55506 (13011008)
566430.46 4191574.22 325.98728 (13011008) 566450.46 4191574.22
346.53095 (13011008)
566470.46 4191574.22 345.35516 (13011008) 566490.46 4191574.22
323.85998 (13011008)
566510.46 4191574.22 286.26192 (13011008) 566530.46 4191574.22
265.30373 (12010208)
566550.46 4191574.22 267.54928 (12010208) 566570.46 4191574.22
260.18398 (12010208)
565570.46 4191594.22 188.94035 (12010508) 565590.46 4191594.22
197.31441 (12010508)
565610.46 4191594.22 205.54937 (12010508) 565630.46 4191594.22
213.64097 (12010508)
565650.46 4191594.22 221.60726 (12010508) 565670.46 4191594.22
229.40622 (12010508)
565690.46 4191594.22 241.30318 (12123108) 565710.46 4191594.22
263.30487 (12123108)
565730.46 4191594.22 286.55200 (12123108) 565750.46 4191594.22
309.60465 (12123108)
565770.46 4191594.22 332.09608 (12123108) 565790.46 4191594.22
353.18761 (12123108)
565810.46 4191594.22 371.73996 (12123108) 565830.46 4191594.22
392.94166 (11020308)
565850.46 4191594.22 418.94902 (12120708) 565870.46 4191594.22
444.15923 (12120708)
565890.46 4191594.22 478.82474 (12120308) 565910.46 4191594.22
510.86669 (12120308)
565930.46 4191594.22 547.11270 (12121108) 565950.46 4191594.22
574.07069 (12121108)
565970.46 4191594.22 590.34042 (12121108) 565990.46 4191594.22
646.18465 (13122708)
566010.46 4191594.22 726.55813 (13122708) 566030.46 4191594.22
866.82743 (13122708)
566050.46 4191594.22 951.63845 (11120608) 566070.46 4191594.22
821.24947 (11120608)
566090.46 4191594.22 609.69310 (10122208) 566110.46 4191594.22
550.38773 (10122208)
566130.46 4191594.22 440.04929 (10122208) 566150.46 4191594.22
359.77635 (10121309)
566170.46 4191594.22 365.70496 (13112908) 566190.46 4191594.22
454.78324 (13112908)
566210.46 4191594.22 594.85639 (12011608) 566230.46 4191594.22
683.08229 (12011608)
566250.46 4191594.22 658.99150 (12011608) 566270.46 4191594.22
670.47732 (13011108)
566290.46 4191594.22 629.05942 (13011108) 566310.46 4191594.22
563.93886 (10121508)
566330.46 4191594.22 557.51997 (09121808) 566350.46 4191594.22
505.53004 (09121808)
566370.46 4191594.22 397.35540 (09121808) 566390.46 4191594.22

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

400.88653 (13112908)
        566190.46   4191614.22   499.34338 (13112908)   566210.46   4191614.22
667.22007 (12011608)
        566230.46   4191614.22   728.74269 (12011608)   566250.46   4191614.22
701.95698 (13011108)
        566270.46   4191614.22   700.46044 (13011108)   566290.46   4191614.22
634.31926 (13011108)
        566310.46   4191614.22   599.35579 (09121808)   566330.46   4191614.22
571.36292 (09121808)
        566350.46   4191614.22   481.34205 (09121808)   566370.46   4191614.22
338.11897 (09121808)
        566390.46   4191614.22   378.91266 (13011008)   566410.46   4191614.22
402.77069 (13011008)
        566430.46   4191614.22   399.77024 (13011008)   566450.46   4191614.22
371.27027 (13011008)
        566470.46   4191614.22   323.10317 (13011008)   566490.46   4191614.22
315.78636 (12010208)
        566510.46   4191614.22   309.02049 (12010208)   566530.46   4191614.22
290.83227 (12010208)
        566550.46   4191614.22   268.20702 (13102408)   566570.46   4191614.22
257.90422 (13102408)
        565570.46   4191634.22   197.18403 (13012808)   565590.46   4191634.22
205.57821 (13012808)
        565610.46   4191634.22   214.57094 (13012808)   565630.46   4191634.22
223.23502 (13012808)
        565650.46   4191634.22   231.65878 (13012808)   565670.46   4191634.22
241.78622 (12010508)
        565690.46   4191634.22   254.37463 (12010508)   565710.46   4191634.22
267.63094 (12010508)
        565730.46   4191634.22   281.00358 (12010508)   565750.46   4191634.22
294.29436 (12011708)
        565770.46   4191634.22   320.99080 (12123108)   565790.46   4191634.22
353.03326 (12123108)
        565810.46   4191634.22   385.62255 (12123108)   565830.46   4191634.22
419.79233 (12123108)
        565850.46   4191634.22   458.15827 (12123108)   565870.46   4191634.22
494.63007 (12123108)
        565890.46   4191634.22   538.37795 (12120708)   565910.46   4191634.22
576.51149 (12120708)
        565930.46   4191634.22   611.80917 (12120308)   565950.46   4191634.22
652.69412 (12120308)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

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- - - - - - - - - - - - - - -
        565970.46   4191634.22      713.21814  (12121108)              565990.46   4191634.22
771.81305  (12121108)
        566010.46   4191634.22      800.90853  (13122708)              566030.46   4191634.22
1024.83538  (13122708)
        566050.46   4191634.22     1070.94598  (13122708)              566070.46   4191634.22
954.94952  (11120608)
        566090.46   4191634.22      819.54101  (11120608)              566110.46   4191634.22
693.80021  (10122208)
        566130.46   4191634.22      626.73876  (10122208)              566150.46   4191634.22
444.88270  (10122208)
        566170.46   4191634.22      442.61774  (13112908)              566190.46   4191634.22
558.82154  (12011608)
        566210.46   4191634.22      743.96858  (12011608)              566230.46   4191634.22
774.37752  (12011608)
        566250.46   4191634.22      757.13215  (13011108)              566270.46   4191634.22
729.22713  (13011108)
        566290.46   4191634.22      646.36398  (10121508)              566310.46   4191634.22
633.23877  (09121808)
        566330.46   4191634.22      566.60505  (09121808)              566350.46   4191634.22
433.87012  (09121808)
        566370.46   4191634.22      412.47843  (13011008)              566390.46   4191634.22
438.47494  (13011008)
        565570.46   4191654.22      196.83615  (13012808)              565590.46   4191654.22
206.73573  (13012808)
        565610.46   4191654.22      217.30554  (13012808)              565630.46   4191654.22
227.85577  (13012808)
        565650.46   4191654.22      238.43657  (13012808)              565670.46   4191654.22
249.26331  (13012808)
        565690.46   4191654.22      260.97334  (13012808)              565710.46   4191654.22
273.41603  (12010508)
        565730.46   4191654.22      289.77575  (12010508)              565750.46   4191654.22
306.73017  (12010508)
        565770.46   4191654.22      323.86044  (12010508)              565790.46   4191654.22
341.69388  (12011708)
        565810.46   4191654.22      380.90393  (12123108)              565830.46   4191654.22
424.45144  (12123108)
        566010.46   4191654.22      898.66607  (12121108)              566030.46   4191654.22
928.66888  (13122708)
        566050.46   4191654.22     1192.08956  (13122708)              566070.46   4191654.22
1185.56965  (13122708)
        566090.46   4191654.22     1012.34440  (11120608)              566110.46   4191654.22
807.28137  (11120608)
        566130.46   4191654.22      729.09379  (10122208)              566150.46   4191654.22
559.52907  (10122208)
        566170.46   4191654.22      493.04689  (13112908)              566190.46   4191654.22
658.79808  (12011608)
        566210.46   4191654.22      825.01425  (12011608)              566230.46   4191654.22
823.36003  (12011608)
        566250.46   4191654.22      809.27514  (13011108)              566270.46   4191654.22
757.47142  (13011108)
        566290.46   4191654.22      692.62860  (09121808)              566310.46   4191654.22
650.93554  (09121808)
        565570.46   4191674.22      193.58670  (13012808)              565590.46   4191674.22
204.58521  (13012808)
        565610.46   4191674.22      216.21733  (13012808)              565630.46   4191674.22
228.30660  (13012808)
        565650.46   4191674.22      240.81218  (13012808)              565670.46   4191674.22
254.43699  (13012808)
        565690.46   4191674.22      268.57441  (13012808)              565710.46   4191674.22
283.37999  (13012808)
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565730.46 4191674.22 298.64894 (13012808) 566010.46 4191674.22 979.33240 (12121108)
566030.46 4191674.22 1030.73145 (12121108) 566050.46 4191674.22 1094.01638 (13122708)
566070.46 4191674.22 1336.34430 (13122708) 566090.46 4191674.22 1336.44949 (11120608)
566110.46 4191674.22 1043.40480 (11120608) 566130.46 4191674.22 840.81848 (10122208)
566150.46 4191674.22 691.72284 (10122208) 566170.46 4191674.22 554.37825 (13112908)
566190.46 4191674.22 777.48919 (12011608) 566210.46 4191674.22 912.37931 (12011608)
566230.46 4191674.22 885.81468 (13011108) 566250.46 4191674.22 865.23277 (13011108)
566270.46 4191674.22 782.23074 (13011108) 566290.46 4191674.22 735.50616 (09121808)
565570.46 4191694.22 193.44757 (10120708) 565590.46 4191694.22 199.80162 (10120708)
565610.46 4191694.22 211.31932 (13012808) 565630.46 4191694.22 224.52947 (13012808)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565650.46	4191694.22	238.77765	(13012808)	565670.46	4191694.22	253.97431	(13012808)
565690.46	4191694.22	270.34455	(13012808)	565710.46	4191694.22	287.81018	(13012808)
565730.46	4191694.22	305.86429	(13012808)	566050.46	4191694.22	1188.81211	(12121108)
566070.46	4191694.22	1302.66273	(13122708)	566090.46	4191694.22	1557.06656	(13122708)
566110.46	4191694.22	1507.18219	(11120608)	566130.46	4191694.22	1065.52590	(11120608)
566150.46	4191694.22	852.59226	(10122208)	566170.46	4191694.22	630.69840	(13112908)
566190.46	4191694.22	915.97588	(12011608)	566210.46	4191694.22	1008.62100	(12011608)
566230.46	4191694.22	977.36230	(13011108)	566250.46	4191694.22	926.09088	(13011108)
566270.46	4191694.22	824.70260	(09121808)	565570.46	4191714.22	203.47744	(10120708)
565590.46	4191714.22	211.51888	(10120708)	565610.46	4191714.22	219.83547	(10120708)

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        565630.46   4191714.22      228.12266  (10120708)              565650.46   4191714.22
236.96905  (10120708)
        565670.46   4191714.22      248.48619  (13012808)              565690.46   4191714.22
266.25121  (13012808)
        565710.46   4191714.22      285.31181  (13012808)              565730.46   4191714.22
305.94859  (13012808)
        566070.46   4191714.22     1406.66507  (12121108)              566090.46   4191714.22
1576.42380  (13122708)
        566110.46   4191714.22     1856.35758  (11120608)              566130.46   4191714.22
1693.87733  (11120608)
        566150.46   4191714.22     1131.66871  (10122208)              566170.46   4191714.22
771.71868  (10122208)
        566190.46   4191714.22     1079.86388  (12011608)              565570.46   4191734.22
210.04366  (10120708)
        565590.46   4191734.22      219.76229  (10120708)              565610.46   4191734.22
230.26302  (10120708)
        565630.46   4191734.22      240.22193  (10120708)              565650.46   4191734.22
251.02231  (10120708)
        565670.46   4191734.22      262.62561  (10120708)              565690.46   4191734.22
274.74553  (10120708)
        565710.46   4191734.22      287.25542  (10120708)              566110.46   4191734.22
1971.05223  (13122708)
        566130.46   4191734.22     2097.58590  (11120608)              566150.46   4191734.22
1759.35809  (11120608)
        566170.46   4191734.22     1065.63804  (10122208)              566190.46   4191734.22
1280.61743  (12011608)
        565570.46   4191754.22      212.91260  (10120708)              565590.46   4191754.22
223.88812  (10120708)
        565610.46   4191754.22      235.61264  (10120708)              565630.46   4191754.22
246.75080  (10120708)
        565650.46   4191754.22      260.01472  (10120708)              565670.46   4191754.22
274.04748  (10120708)
        565690.46   4191754.22      288.32667  (10120708)              565710.46   4191754.22
303.04748  (10120708)
        566130.46   4191754.22     2601.65836  (11120608)              566150.46   4191754.22
2809.38758  (11120608)
        566170.46   4191754.22     1745.28633  (10122208)              566190.46   4191754.22
1596.90239  (12011608)
        565570.46   4191774.22      215.07534  (14010108)              565590.46   4191774.22
225.73642  (14010108)
        565610.46   4191774.22      237.33544  (14010108)              565630.46   4191774.22
248.64081  (14010108)
        565650.46   4191774.22      262.89222  (10120708)              565670.46   4191774.22
279.04669  (10120708)
        565690.46   4191774.22      295.36360  (10120708)              565710.46   4191774.22
312.03658  (10120708)
        566170.46   4191774.22     3167.48947  (11120608)              566190.46   4191774.22
2515.79256  (12011608)
        565570.46   4191794.22      215.67803  (14010108)              565590.46   4191794.22
226.56503  (14010108)
        565610.46   4191794.22      238.81866  (14010108)              565630.46   4191794.22
251.45241  (14010108)
        565650.46   4191794.22      267.02421  (14010108)              565670.46   4191794.22
283.94048  (14010108)
        565690.46   4191794.22      301.00989  (14010108)              565710.46   4191794.22
318.07516  (14010108)
        565570.46   4191814.22      216.26505  (10121608)              565590.46   4191814.22
226.99074  (10121608)
        565610.46   4191814.22      239.00328  (10121608)              565630.46   4191814.22
250.94437  (10121608)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565650.46	4191814.22	266.65654	(10121608)	565670.46	4191814.22	283.57167	(10121608)
565690.46	4191814.22	300.89477	(14010108)	565710.46	4191814.22	318.80363	(14010108)
565570.46	4191834.22	218.28792	(10121608)	565590.46	4191834.22	229.67803	(10121608)
565610.46	4191834.22	242.22649	(10121608)	565630.46	4191834.22	254.77273	(10121608)
565650.46	4191834.22	270.90330	(10121608)	565670.46	4191834.22	288.33330	(10121608)
565690.46	4191834.22	306.10195	(10121608)	565710.46	4191834.22	324.24578	(10121608)
565570.46	4191854.22	219.05861	(10120108)	565590.46	4191854.22	230.77731	(10120108)
565610.46	4191854.22	243.35668	(10120108)	565630.46	4191854.22	256.28400	(10120108)
565650.46	4191854.22	271.46975	(10120108)	565670.46	4191854.22	288.14527	(10120108)
565690.46	4191854.22	306.17467	(10120108)	565710.46	4191854.22	325.58125	(10120108)
565570.46	4191874.22	216.65226	(10120108)	565590.46	4191874.22	228.30300	(10120108)
565610.46	4191874.22	240.54875	(10120108)	565630.46	4191874.22	253.73318	(10120108)
565650.46	4191874.22	268.73584	(10120108)	565670.46	4191874.22	285.21208	(10120108)
565690.46	4191874.22	303.09032	(10120108)	565710.46	4191874.22	322.29813	(10120108)
565570.46	4191894.22	210.52387	(10120108)	565590.46	4191894.22	221.63005	(10120108)
565610.46	4191894.22	233.28629	(10120108)	565630.46	4191894.22	246.08813	(10120108)
565650.46	4191894.22	260.14957	(10120108)	565670.46	4191894.22	275.63170	(10120108)
565690.46	4191894.22	292.32075	(10120108)	565710.46	4191894.22	310.01040	(10120108)
565570.46	4191914.22	200.90480	(10120108)	565590.46	4191914.22	211.11542	(10120108)
565610.46	4191914.22	222.06033	(10120108)	565630.46	4191914.22	233.92167	(10120108)
565650.46	4191914.22	246.33583	(10120108)	565670.46	4191914.22		

260.13705 (10120108)
        565690.46   4191914.22   274.79457 (10120108)   565710.46   4191914.22
293.98023 (10112908)
        565570.46   4191934.22   195.51988 (10112908)   565590.46   4191934.22
208.52598 (10112908)
        565610.46   4191934.22   222.44696 (10112908)   565630.46   4191934.22
237.23302 (10112908)
        565650.46   4191934.22   252.85923 (10112908)   565670.46   4191934.22
269.99343 (10112908)
        565690.46   4191934.22   288.64748 (10112908)   565710.46   4191934.22
308.75257 (10112908)
        565570.46   4191954.22   207.68668 (10112908)   565590.46   4191954.22
221.10984 (10112908)
        565610.46   4191954.22   235.23653 (10112908)   565630.46   4191954.22
249.41110 (10112908)
        565650.46   4191954.22   264.28078 (10112908)   565670.46   4191954.22
280.19699 (10112908)
        565690.46   4191954.22   297.50022 (10112908)   565710.46   4191954.22
317.65024 (13020108)
        565570.46   4191974.22   217.29145 (10112908)   565590.46   4191974.22
230.63914 (10112908)
        565610.46   4191974.22   244.52003 (10112908)   565630.46   4191974.22
258.33055 (13020108)
        565650.46   4191974.22   273.57043 (13020108)   565670.46   4191974.22
289.23435 (13020108)
        565690.46   4191974.22   306.53714 (13020108)   565710.46   4191974.22
326.77602 (13020108)
        565570.46   4191994.22   224.03758 (13020108)   565590.46   4191994.22
238.32707 (13020108)
        565610.46   4191994.22   253.42264 (13020108)   565630.46   4191994.22
268.01021 (13020108)
        565650.46   4191994.22   282.10263 (13020108)   565670.46   4191994.22
296.83372 (13020108)
        565690.46   4191994.22   312.86952 (13020108)   565710.46   4191994.22
331.08404 (13020108)
        565570.46   4192014.22   228.71504 (13020108)   565590.46   4192014.22
242.06690 (13020108)
        565610.46   4192014.22   256.92731 (13020108)   565630.46   4192014.22
272.19460 (13020108)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: PAREA1   ***
                                  INCLUDING SOURCE(S):   PAREA1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

297.55307 (13020108)
	565690.46	4192014.22	311.59913	(13020108)	565710.46	4192014.22
327.39282 (13020108)
	565570.46	4192034.22	227.91856	(13020108)	565590.46	4192034.22
239.04606 (13020108)
	565610.46	4192034.22	253.67312	(13020108)	565630.46	4192034.22
270.28880 (13020108)
	565650.46	4192034.22	280.48605	(13020108)	565670.46	4192034.22
290.23529 (13020108)
	565690.46	4192034.22	301.25174	(13020108)	565710.46	4192034.22
314.73076 (13020108)
	565570.46	4192054.22	224.39603	(13020108)	565590.46	4192054.22
233.73467 (13020108)
	565610.46	4192054.22	246.37551	(13020108)	565630.46	4192054.22
260.83409 (13020108)
	565650.46	4192054.22	269.28728	(13020108)	565670.46	4192054.22
277.14669 (13020108)
	565690.46	4192054.22	286.15908	(09021008)	565570.46	4192074.22
218.32656 (13020108)
	565590.46	4192074.22	225.97050	(13020108)	565610.46	4192074.22
235.66385 (13020108)
	565630.46	4192074.22	246.33871	(13020108)	565650.46	4192074.22
257.86225 (09021008)
	565670.46	4192074.22	277.55122	(09021008)	565690.46	4192074.22
299.07610 (09021008)
	565570.46	4192094.22	210.92925	(13020108)	565590.46	4192094.22
217.29787 (13020108)
	565610.46	4192094.22	231.59415	(09021008)	565630.46	4192094.22
249.02624 (09021008)
	565650.46	4192094.22	266.88193	(09021008)	565570.46	4192114.22
209.11093 (09021008)
	565590.46	4192114.22	224.53912	(09021008)	565610.46	4192114.22
239.55460 (09021008)
	565630.46	4192114.22	254.87364	(09021008)	565650.46	4192114.22
270.93613 (09021008)
	565570.46	4192134.22	214.95978	(09021008)	565590.46	4192134.22
229.33309 (09021008)
	565610.46	4192134.22	242.98204	(09021008)	565630.46	4192134.22
256.50344 (09021008)
	565570.46	4192154.22	217.35384	(09021008)	565590.46	4192154.22
230.56365 (09021008)
	565610.46	4192154.22	242.90513	(09021008)	565630.46	4192154.22
254.33414 (09021008)
	565570.46	4192174.22	218.17094	(09021008)	565590.46	4192174.22
229.46694 (09021008)
	565610.46	4192174.22	239.49017	(09021008)	565630.46	4192174.22
247.46127 (09021008)
	565690.46	4192174.22	419.58778	(12122408)	565710.46	4192174.22
420.83225 (12122408)
	565730.46	4192174.22	412.22967	(12122408)	565750.46	4192174.22
406.25195 (12122408)
	565770.46	4192174.22	385.11999	(12122408)	565790.46	4192174.22
365.97703 (12122408)
	565810.46	4192174.22	381.61030	(11011008)	565570.46	4192194.22
216.67561 (09021008)
	565590.46	4192194.22	225.37762	(09021008)	565610.46	4192194.22
237.82604 (12122408)
	565630.46	4192194.22	313.90014	(12122408)	565650.46	4192194.22
376.42174 (12122408)
	565670.46	4192194.22	405.59677	(12122408)	565690.46	4192194.22
396.14767 (12122408)

565710.46 4192194.22 378.40000 (12122408) 565730.46 4192194.22
368.89235 (12122408)
565750.46 4192194.22 356.36097 (12122408) 565770.46 4192194.22
335.31430 (12122408)
565790.46 4192194.22 355.35704 (11011008) 565810.46 4192194.22
400.13743 (11011008)
565570.46 4192214.22 213.36386 (12122408) 565590.46 4192214.22
229.06858 (12122408)
565610.46 4192214.22 302.82951 (12122408) 565630.46 4192214.22
369.73485 (12122408)
565650.46 4192214.22 387.82536 (12122408) 565670.46 4192214.22
369.60223 (12122408)
565690.46 4192214.22 351.61521 (12122408) 565710.46 4192214.22
340.98630 (12122408)
565730.46 4192214.22 330.34797 (12122408) 565750.46 4192214.22
310.11467 (12122408)
565770.46 4192214.22 343.32302 (11011008) 565790.46 4192214.22
380.34816 (11011008)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PAREA1 ***

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565810.46	4192214.22	399.12409	(11011008)	565570.46	4192234.22	220.55234	(12122408)
565590.46	4192234.22	282.77821	(12122408)	565610.46	4192234.22	356.26133	(12122408)
565630.46	4192234.22	380.27992	(12122408)	565650.46	4192234.22	355.34484	(12122408)
565670.46	4192234.22	331.87597	(12122408)	565690.46	4192234.22	320.26019	(12122408)
565710.46	4192234.22	307.72132	(12122408)	565730.46	4192234.22	286.03520	(12122408)
565750.46	4192234.22	333.22716	(11011008)	565770.46	4192234.22	369.22110	(11011008)
565790.46	4192234.22	383.53603	(11011008)	565810.46	4192234.22	373.05605	(11011008)
566610.64	4191596.95	229.85936	(13102408)	566594.96	4191572.56	241.00032	(12010208)
566676.84	4191551.66	189.01958	(13102408)	566582.76	4191498.52	230.39383	(13011008)
566607.15	4191478.49	211.49998	(13011008)	566639.38	4191459.32	190.20140	(13011008)
566587.99	4191437.55	212.63508	(13011008)	566635.90	4191431.45	209.12076	(13011008)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565570.46	4191234.22	15.06096	(09120916)	565590.46	4191234.22	15.53457	(09120916)
565610.46	4191234.22	15.90523	(09120916)	565630.46	4191234.22	16.27305	(10121616)
565650.46	4191234.22	17.81379	(10121616)	565670.46	4191234.22	19.33218	(10121616)
565690.46	4191234.22	20.78876	(10121616)	565710.46	4191234.22	22.13987	(10121616)
565730.46	4191234.22	23.33993	(10121616)	565750.46	4191234.22	24.33859	(10121616)
565770.46	4191234.22	25.09951	(10121616)	565790.46	4191234.22	25.57512	(10121616)
565810.46	4191234.22	25.70624	(10121616)	565830.46	4191234.22	25.47976	(10121616)
565850.46	4191234.22	24.93724	(10121616)	565870.46	4191234.22	24.06133	(10121616)
565890.46	4191234.22	22.84665	(10121616)	565910.46	4191234.22	22.20512	(13032108)
565930.46	4191234.22	23.00665	(12120516)	565950.46	4191234.22	24.15973	(12120516)
565970.46	4191234.22	24.87475	(12120516)	565990.46	4191234.22	25.09849	(12120516)
566010.46	4191234.22	24.81251	(12120516)	566030.46	4191234.22	24.02857	(12120516)
566050.46	4191234.22	23.42286	(10112516)	566070.46	4191234.22		
566616.73	4191406.19	203.68511	(13011008)	566600.18	4191377.44	159.78225	(13011008)
566633.29	4191315.60	114.11262	(13011008)	566669.00	4191327.79	163.57008	(13011008)
566868.47	4191523.78	90.16301	(13102408)	566871.96	4191416.64	129.47075	(13102408)
566934.68	4191400.96	117.57019	(13102408)				

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24.90265  (10112516)
        566090.46   4191234.22       26.00321  (10112516)              566110.46   4191234.22
26.67171  (10112516)
        566130.46   4191234.22       30.07377  (09120816)              566150.46   4191234.22
33.04706  (09120816)
        566170.46   4191234.22       35.34449  (09120816)              566190.46   4191234.22
36.73698  (09120816)
        566210.46   4191234.22       37.09686  (09120816)              566230.46   4191234.22
36.38317  (09120816)
        566250.46   4191234.22       35.18025  (09120816)              566270.46   4191234.22
160.87102  (12011608)
        566290.46   4191234.22      240.90430  (12011608)              566310.46   4191234.22
242.00413  (12011608)
        566330.46   4191234.22      204.06454  (12011608)              566350.46   4191234.22
181.20758  (13011108)
        566370.46   4191234.22      198.31218  (13011108)              566390.46   4191234.22
208.67946  (13011108)
        566410.46   4191234.22      202.70765  (13011108)              566430.46   4191234.22
179.73568  (13011108)
        566450.46   4191234.22      162.50646  (10121508)              566470.46   4191234.22
163.60545  (10121508)
        566490.46   4191234.22      155.84304  (10121508)              566510.46   4191234.22
160.84536  (09121808)
        566530.46   4191234.22      159.28772  (09121808)              566550.46   4191234.22
149.90339  (09121808)
        566570.46   4191234.22      134.11281  (09121808)              565570.46   4191254.22
15.28340  (09120916)
        565590.46   4191254.22       15.89794  (09120916)              565610.46   4191254.22
16.40000  (09120916)
        565630.46   4191254.22       16.77559  (09120916)              565650.46   4191254.22
17.49645  (10121616)
        565670.46   4191254.22       19.15221  (10121616)              565690.46   4191254.22
20.77367  (10121616)
        565710.46   4191254.22       22.31371  (10121616)              565730.46   4191254.22
23.72525  (10121616)
        565750.46   4191254.22       24.95693  (10121616)              565770.46   4191254.22
25.96197  (10121616)
        565790.46   4191254.22       26.68376  (10121616)              565810.46   4191254.22
27.06165  (10121616)
        565830.46   4191254.22       27.07738  (10121616)              565850.46   4191254.22
26.72768  (10121616)
        565870.46   4191254.22       26.00719  (10121616)              565890.46   4191254.22
24.90500  (10121616)
        565910.46   4191254.22       23.62646  (13032108)              565930.46   4191254.22
23.70901  (12120516)
        565950.46   4191254.22       25.09111  (12120516)              565970.46   4191254.22
26.02367  (12120516)
        565990.46   4191254.22       26.43592  (12120516)              566010.46   4191254.22
26.29852  (12120516)
        566030.46   4191254.22       25.62305  (12120516)              566050.46   4191254.22
24.50198  (10112516)
        566070.46   4191254.22       26.16524  (10112516)              566090.46   4191254.22
27.41542  (10112516)
        566110.46   4191254.22       28.19529  (10112516)              566130.46   4191254.22
31.75570  (09120816)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566150.46	4191254.22	34.96807	(09120816)	566170.46	4191254.22	37.40925	(09120816)
566190.46	4191254.22	38.85040	(09120816)	566210.46	4191254.22	39.16962	(09120816)
566230.46	4191254.22	38.32559	(09120816)	566250.46	4191254.22	37.73343	(09120816)
566270.46	4191254.22	208.96499	(12011608)	566290.46	4191254.22	256.26907	(12011608)
566310.46	4191254.22	240.54469	(12011608)	566330.46	4191254.22	199.93893	(12011608)
566350.46	4191254.22	192.17819	(13011108)	566370.46	4191254.22	208.84413	(13011108)
566390.46	4191254.22	214.59735	(13011108)	566410.46	4191254.22	202.02197	(13011108)
566430.46	4191254.22	172.73977	(13011108)	566450.46	4191254.22	169.08682	(10121508)
566470.46	4191254.22	165.80315	(10121508)	566490.46	4191254.22	163.54943	(09121808)
566510.46	4191254.22	165.78662	(09121808)	566530.46	4191254.22	159.47341	(09121808)
566550.46	4191254.22	145.62889	(09121808)	566570.46	4191254.22	126.29688	(09121808)
565570.46	4191274.22	15.40084	(09120916)	565590.46	4191274.22	16.15640	(09120916)
565610.46	4191274.22	16.79708	(09120916)	565630.46	4191274.22	17.32414	(09120916)
565650.46	4191274.22	17.72662	(09120916)	565670.46	4191274.22	18.85631	(10121616)
565690.46	4191274.22	20.63385	(10121616)	565710.46	4191274.22	22.35890	(10121616)
565730.46	4191274.22	23.98668	(10121616)	565750.46	4191274.22	25.45940	(10121616)
565770.46	4191274.22	26.72224	(10121616)	565790.46	4191274.22	27.71353	(10121616)
565810.46	4191274.22	28.37380	(10121616)	565830.46	4191274.22	28.67916	(10121616)
565850.46	4191274.22	28.56119	(10121616)	565870.46	4191274.22	28.03991	(10121616)
565890.46	4191274.22	27.09420	(10121616)	565910.46	4191274.22		

25.72307 (10121616)
        565930.46   4191274.22   24.99629 (13032108)   565950.46   4191274.22
26.02993 (12120516)
        565970.46   4191274.22   27.20715 (12120516)   565990.46   4191274.22
27.82949 (12120516)
        566010.46   4191274.22   27.85569 (12120516)   566030.46   4191274.22
27.30003 (12120516)
        566050.46   4191274.22   26.22692 (12120516)   566070.46   4191274.22
27.49586 (10112516)
        566090.46   4191274.22   28.92142 (10112516)   566110.46   4191274.22
29.83597 (10112516)
        566130.46   4191274.22   33.57049 (09120816)   566150.46   4191274.22
37.05145 (09120816)
        566170.46   4191274.22   39.64417 (09120816)   566190.46   4191274.22
41.13178 (09120816)
        566210.46   4191274.22   41.40589 (09120816)   566230.46   4191274.22
40.42322 (09120816)
        566250.46   4191274.22   77.45145 (12011608)   566270.46   4191274.22
241.66086 (12011608)
        566290.46   4191274.22   266.26324 (12011608)   566310.46   4191274.22
242.06968 (12011608)
        566330.46   4191274.22   199.96902 (12011608)   566350.46   4191274.22
204.13863 (13011108)
        566370.46   4191274.22   217.48037 (13011108)   566390.46   4191274.22
217.71004 (13011108)
        566410.46   4191274.22   198.46409 (13011108)   566430.46   4191274.22
171.99085 (10121508)
        566450.46   4191274.22   174.03769 (10121508)   566470.46   4191274.22
166.10907 (10121508)
        566490.46   4191274.22   171.08288 (09121808)   566510.46   4191274.22
168.39616 (09121808)
        566530.46   4191274.22   157.10419 (09121808)   566550.46   4191274.22
138.99349 (09121808)
        566570.46   4191274.22   116.67205 (09121808)   565570.46   4191294.22
15.40473 (09120916)
        565590.46   4191294.22   16.29751 (09120916)   565610.46   4191294.22
17.08611 (09120916)
        565630.46   4191294.22   17.77843 (09120916)   565650.46   4191294.22
18.35625 (09120916)
        565670.46   4191294.22   18.79052 (09120916)   565690.46   4191294.22
20.37861 (10121616)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565710.46	4191294.22	22.28330	(10121616)	565730.46	4191294.22	24.13456	(10121616)
565750.46	4191294.22	25.85365	(10121616)	565770.46	4191294.22	27.38225	(10121616)
565790.46	4191294.22	28.66135	(10121616)	565810.46	4191294.22	29.63403	(10121616)
565830.46	4191294.22	30.25801	(10121616)	565850.46	4191294.22	30.42660	(10121616)
565870.46	4191294.22	30.16216	(10121616)	565890.46	4191294.22	29.42272	(10121616)
565910.46	4191294.22	28.19368	(10121616)	565930.46	4191294.22	26.74851	(13032108)
565950.46	4191294.22	27.01881	(12120516)	565970.46	4191294.22	28.46553	(12120516)
565990.46	4191294.22	29.32148	(12120516)	566010.46	4191294.22	29.53316	(12120516)
566030.46	4191294.22	29.10199	(12120516)	566050.46	4191294.22	28.09221	(12120516)
566070.46	4191294.22	28.87172	(10112516)	566090.46	4191294.22	30.50487	(10112516)
566110.46	4191294.22	31.58865	(10112516)	566130.46	4191294.22	35.51569	(09120816)
566150.46	4191294.22	39.29613	(09120816)	566170.46	4191294.22	42.06777	(09120816)
566190.46	4191294.22	43.61592	(09120816)	566210.46	4191294.22	43.83562	(09120816)
566230.46	4191294.22	42.71038	(09120816)	566250.46	4191294.22	86.79783	(12011608)
566270.46	4191294.22	256.10075	(12011608)	566290.46	4191294.22	275.56627	(12011608)
566310.46	4191294.22	248.64408	(12011608)	566330.46	4191294.22	210.73662	(13011108)
566350.46	4191294.22	216.46173	(13011108)	566370.46	4191294.22	223.35031	(13011108)
566390.46	4191294.22	217.50773	(13011108)	566410.46	4191294.22	192.44398	(13011108)
566430.46	4191294.22	178.74348	(10121508)	566450.46	4191294.22	176.93523	(10121508)
566470.46	4191294.22	174.84796	(09121808)	566490.46	4191294.22	176.35922	(09121808)
566510.46	4191294.22	168.33180	(09121808)	566530.46	4191294.22	152.12113	(09121808)
566550.46	4191294.22	130.22321	(09121808)	566570.46	4191294.22	105.65009	(09121808)
565570.46	4191314.22	15.89274	(11121216)	565590.46	4191314.22	16.29696	(09120916)
565610.46	4191314.22	17.25050	(09120916)	565630.46	4191314.22	18.12314	(09120916)
565650.46	4191314.22	18.88526	(09120916)	565670.46	4191314.22	19.50549	(09120916)
565690.46	4191314.22	19.98661	(10121616)	565710.46	4191314.22	22.06643	(10121616)
565730.46	4191314.22	24.13828	(10121616)	565750.46	4191314.22		

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - - -
        566290.46   4191314.22   286.23389 (12011608)   566310.46   4191314.22
260.15818 (12011608)
        566330.46   4191314.22   233.76201 (13011108)   566350.46   4191314.22
230.75595 (13011108)
        566370.46   4191314.22   227.58541 (13011108)   566390.46   4191314.22
214.62130 (13011108)

566410.46 4191314.22 184.68831 (13011108) 566430.46 4191314.22
182.08119 (10121508)
566450.46 4191314.22 176.76757 (10121508) 566470.46 4191314.22
182.78330 (09121808)
566490.46 4191314.22 178.83794 (09121808) 566510.46 4191314.22
165.30937 (09121808)
566530.46 4191314.22 144.49336 (09121808) 566550.46 4191314.22
119.49225 (09121808)
566570.46 4191314.22 93.53886 (09121808) 565570.46 4191334.22
17.40458 (11121216)
565590.46 4191334.22 17.07227 (11121216) 565610.46 4191334.22
17.26629 (09120916)
565630.46 4191334.22 18.32112 (09120916) 565650.46 4191334.22
19.27436 (09120916)
565670.46 4191334.22 20.09323 (09120916) 565690.46 4191334.22
20.75283 (09120916)
565710.46 4191334.22 21.69369 (10121616) 565730.46 4191334.22
23.97837 (10121616)
565750.46 4191334.22 26.20451 (10121616) 565770.46 4191334.22
28.32049 (10121616)
565790.46 4191334.22 30.24662 (10121616) 565810.46 4191334.22
31.89315 (10121616)
565830.46 4191334.22 33.21665 (10121616) 565850.46 4191334.22
34.14721 (10121616)
565870.46 4191334.22 34.55037 (10121616) 565890.46 4191334.22
34.37404 (10121616)
565910.46 4191334.22 33.62080 (10121616) 565930.46 4191334.22
32.33250 (10121616)
565950.46 4191334.22 30.58263 (13032108) 565970.46 4191334.22
31.04767 (12120516)
565990.46 4191334.22 32.55502 (12120516) 566010.46 4191334.22
33.31972 (12120516)
566030.46 4191334.22 33.27568 (12120516) 566050.46 4191334.22
32.37794 (12120516)
566070.46 4191334.22 31.94898 (10112516) 566090.46 4191334.22
34.08760 (10112516)
566110.46 4191334.22 35.57460 (10112516) 566130.46 4191334.22
39.88203 (09120816)
566150.46 4191334.22 44.35141 (09120816) 566170.46 4191334.22
47.60482 (09120816)
566190.46 4191334.22 49.32187 (09120816) 566210.46 4191334.22
49.39050 (09120816)
566230.46 4191334.22 48.17408 (09120816) 566250.46 4191334.22
82.58225 (12011608)
566270.46 4191334.22 261.49258 (12011608) 566290.46 4191334.22
295.80344 (12011608)
566310.46 4191334.22 276.61603 (12011608) 566330.46 4191334.22
266.40555 (13011108)
566350.46 4191334.22 253.85983 (13011108) 566370.46 4191334.22
234.97987 (13011108)
566390.46 4191334.22 210.08904 (13011108) 566410.46 4191334.22
180.06887 (10121508)
566430.46 4191334.22 182.56994 (10121508) 566450.46 4191334.22
185.48815 (09121808)
566470.46 4191334.22 187.96925 (09121808) 566490.46 4191334.22
178.14819 (09121808)
566510.46 4191334.22 159.25098 (09121808) 566530.46 4191334.22
134.41916 (09121808)
566550.46 4191334.22 107.19464 (09121808) 566570.46 4191334.22
80.81365 (09121808)
565570.46 4191354.22 18.85415 (11121216) 565590.46 4191354.22

18.68455 (11121216)
        565610.46   4191354.22   18.36299 (11121216)   565630.46   4191354.22
18.32181 (09120916)
        565650.46   4191354.22   19.46980 (09120916)   565670.46   4191354.22
20.50527 (09120916)
        565690.46   4191354.22   21.39996 (09120916)   565710.46   4191354.22
22.13871 (09120916)
        565730.46   4191354.22   23.63780 (10121616)   565750.46   4191354.22
26.10868 (10121616)
        565770.46   4191354.22   28.52498 (10121616)   565790.46   4191354.22
30.80119 (10121616)
        565810.46   4191354.22   32.82544 (10121616)   565830.46   4191354.22
34.54916 (10121616)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - -
        565850.46   4191354.22   35.91776 (10121616)   565870.46   4191354.22
36.77762 (10121616)
        565890.46   4191354.22   37.00289 (10121616)   565910.46   4191354.22
36.55684 (10121616)
        565930.46   4191354.22   35.51243 (10121616)   565950.46   4191354.22
33.75445 (10121616)
        565970.46   4191354.22   32.60250 (13032108)   565990.46   4191354.22
34.27833 (12120516)
        566010.46   4191354.22   35.42914 (12120516)   566030.46   4191354.22
35.69312 (12120516)
        566050.46   4191354.22   35.03252 (12120516)   566070.46   4191354.22
33.79918 (10112516)
        566090.46   4191354.22   36.17293 (10112516)   566110.46   4191354.22
37.91121 (10112516)
        566130.46   4191354.22   42.49161 (09120816)   566150.46   4191354.22
47.28533 (09120816)
        566170.46   4191354.22   50.70238 (09120816)   566190.46   4191354.22
52.54973 (09120816)
        566210.46   4191354.22   52.56232 (09120816)   566230.46   4191354.22
52.02093 (09120816)

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        566250.46   4191354.22      123.79791  (12011608)              566270.46   4191354.22
263.67222  (12011608)
        566290.46   4191354.22      300.87462  (12011608)              566310.46   4191354.22
298.27537  (13011108)
        566330.46   4191354.22      296.04567  (13011108)              566350.46   4191354.22
274.03131  (13011108)
        566370.46   4191354.22      243.22914  (13011108)              566390.46   4191354.22
206.90156  (13011108)
        566410.46   4191354.22      185.11173  (10121508)              566430.46   4191354.22
183.75754  (09121808)
        566450.46   4191354.22      192.98966  (09121808)              566470.46   4191354.22
189.96765  (09121808)
        566490.46   4191354.22      174.12932  (09121808)              566510.46   4191354.22
150.27530  (09121808)
        566530.46   4191354.22      122.25526  (09121808)              566550.46   4191354.22
93.82357  (09121808)
        566570.46   4191354.22       81.16706  (13011008)              565570.46   4191374.22
20.20548  (11121216)
        565590.46   4191374.22       20.23148  (11121216)              565610.46   4191374.22
20.09274  (11121216)
        565630.46   4191374.22       19.80003  (11121216)              565650.46   4191374.22
19.48299  (09120916)
        565670.46   4191374.22       20.74290  (09120916)              565690.46   4191374.22
21.88998  (09120916)
        565710.46   4191374.22       22.89073  (09120916)              565730.46   4191374.22
23.69705  (09120916)
        565750.46   4191374.22       25.80737  (10121616)              565770.46   4191374.22
28.51891  (10121616)
        565790.46   4191374.22       31.14541  (10121616)              565810.46   4191374.22
33.57792  (10121616)
        565830.46   4191374.22       35.74031  (10121616)              565850.46   4191374.22
37.59453  (10121616)
        565870.46   4191374.22       38.95797  (10121616)              565890.46   4191374.22
39.65561  (10121616)
        565910.46   4191374.22       39.61343  (10121616)              565930.46   4191374.22
38.90790  (10121616)
        565950.46   4191374.22       37.40945  (10121616)              565970.46   4191374.22
35.28140  (13032108)
        565990.46   4191374.22       36.06716  (12120516)              566010.46   4191374.22
37.68754  (12120516)
        566030.46   4191374.22       38.33665  (12120516)              566050.46   4191374.22
37.97029  (12120516)
        566070.46   4191374.22       36.53180  (12120516)              566090.46   4191374.22
38.64663  (10112516)
        566110.46   4191374.22       40.67053  (10112516)              566130.46   4191374.22
45.54409  (09120816)
        566150.46   4191374.22       50.68427  (09120816)              566170.46   4191374.22
54.26880  (09120816)
        566190.46   4191374.22       56.13913  (09120816)              566210.46   4191374.22
56.03953  (09120816)
        566230.46   4191374.22       55.90280  (09120816)              566250.46   4191374.22
161.61844  (12011608)
        566270.46   4191374.22      271.19744  (12011608)              566290.46   4191374.22
305.73517  (12011608)
        566310.46   4191374.22      322.09905  (13011108)              566330.46   4191374.22
321.15587  (13011108)
        566350.46   4191374.22      292.65124  (13011108)              566370.46   4191374.22
251.53931  (13011108)
        566390.46   4191374.22      204.16958  (13011108)              566410.46   4191374.22
188.96022  (10121508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
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                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SLINE1   ***

                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

```
        566090.46   4191394.22       41.50752  (10112516)               566110.46   4191394.22
43.76231  (10112516)
        566130.46   4191394.22       48.93271  (09120816)               566150.46   4191394.22
54.61425  (09120816)
        566170.46   4191394.22       58.30961  (09120816)               566190.46   4191394.22
60.14797  (09120816)
        566210.46   4191394.22       59.86171  (09120816)               566230.46   4191394.22
59.19437  (09120816)
        566250.46   4191394.22      187.01988  (12011608)               566270.46   4191394.22
289.22038  (12011608)
        566290.46   4191394.22      316.95794  (12011608)               566310.46   4191394.22
342.33072  (13011108)
        566330.46   4191394.22      339.76804  (13011108)               566350.46   4191394.22
307.87912  (13011108)
        566370.46   4191394.22      259.43481  (13011108)               566390.46   4191394.22
208.63381  (10121508)
        566410.46   4191394.22      194.75988  (09121808)               566430.46   4191394.22
196.91465  (09121808)
        566450.46   4191394.22      194.97053  (09121808)               566470.46   4191394.22
181.14147  (09121808)
        566490.46   4191394.22      155.69521  (09121808)               566510.46   4191394.22
124.90234  (09121808)
        566530.46   4191394.22       93.75115  (09121808)               566550.46   4191394.22
97.56971  (13011008)
        566570.46   4191394.22      106.88851  (13011008)               565570.46   4191414.22
22.40808  (11121216)
        565590.46   4191414.22       22.90684  (11121216)               565610.46   4191414.22
23.25432  (11121216)
        565630.46   4191414.22       23.43508  (11121216)               565650.46   4191414.22
23.43527  (11121216)
        565670.46   4191414.22       23.23219  (11121216)               565690.46   4191414.22
22.79830  (11121216)
        565710.46   4191414.22       23.81958  (09120916)               565730.46   4191414.22
25.21218  (09120916)
        565750.46   4191414.22       26.42771  (09120916)               565770.46   4191414.22
27.79183  (10121616)
        565790.46   4191414.22       31.08542  (10121616)               565810.46   4191414.22
34.36617  (10121616)
        565830.46   4191414.22       37.54055  (10121616)               565850.46   4191414.22
40.45004  (10121616)
        565870.46   4191414.22       42.96715  (10121616)               565890.46   4191414.22
44.84756  (10121616)
        565910.46   4191414.22       45.93460  (10121616)               565930.46   4191414.22
46.22404  (10121616)
        565950.46   4191414.22       45.58222  (10121616)               565970.46   4191414.22
43.87639  (10121616)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 272
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
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L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,
L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565990.46	4191414.22	41.28177	(10121616)	566010.46	4191414.22	42.56904	(12120516)
566030.46	4191414.22	44.34556	(12120516)	566050.46	4191414.22	44.86868	(12120516)
566070.46	4191414.22	44.11883	(12120516)	566090.46	4191414.22	44.52546	(10112516)
566110.46	4191414.22	46.87838	(10112516)	566130.46	4191414.22	54.86968	(09120816)
566150.46	4191414.22	124.58200	(12011608)	566170.46	4191414.22	130.89081	(12011608)
566190.46	4191414.22	69.06942	(09120816)	566210.46	4191414.22	67.31708	(09120816)
566230.46	4191414.22	76.22745	(13011108)	566250.46	4191414.22	238.33354	(12011608)
566270.46	4191414.22	313.72813	(12011608)	566290.46	4191414.22	340.26244	(13011108)
566310.46	4191414.22	361.89582	(13011108)	566330.46	4191414.22	353.47073	(13011108)
566350.46	4191414.22	311.92863	(13011108)	566370.46	4191414.22	250.97871	(13011108)
566390.46	4191414.22	213.74360	(10121508)	566410.46	4191414.22	205.73120	(09121808)
566430.46	4191414.22	201.77731	(09121808)	566450.46	4191414.22	191.78118	(09121808)
566470.46	4191414.22	172.06166	(09121808)	566490.46	4191414.22	142.93153	(09121808)
566510.46	4191414.22	110.05554	(09121808)	566530.46	4191414.22	101.38265	(13011008)
566550.46	4191414.22	111.53669	(13011008)	566570.46	4191414.22	119.23670	(13011008)
565570.46	4191434.22	23.15021	(11121216)	565590.46	4191434.22	23.91778	(11121216)
565610.46	4191434.22	24.56281	(11121216)	565630.46	4191434.22	25.04592	(11121216)
565650.46	4191434.22	25.35187	(11121216)	565670.46	4191434.22	25.44918	(11121216)
565690.46	4191434.22	25.29991	(11121216)	565710.46	4191434.22	24.86743	(11121216)
565730.46	4191434.22	25.62819	(09120916)	565750.46	4191434.22	27.19095	(09120916)
565770.46	4191434.22	28.52270	(09120916)	565790.46	4191434.22	30.63699	(10121616)
565810.46	4191434.22	34.33017	(10121616)	565830.46	4191434.22	38.00970	(10121616)
565850.46	4191434.22	41.50161	(10121616)	565870.46	4191434.22	44.69269	(10121616)
565890.46	4191434.22	47.28660	(10121616)	565910.46	4191434.22	49.08611	(10121616)

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        565930.46   4191434.22       50.06693  (10121616)               565950.46   4191434.22
50.04820  (10121616)
        565970.46   4191434.22       48.82584  (10121616)               565990.46   4191434.22
46.57046  (10121616)
        566010.46   4191434.22       45.16431  (12120516)               566030.46   4191434.22
47.71703  (12120516)
        566050.46   4191434.22       48.86930  (12120516)               566070.46   4191434.22
48.46634  (12120516)
        566090.46   4191434.22       47.55190  (10112516)               566110.46   4191434.22
56.52616  (12011608)
        566130.46   4191434.22      150.23807  (10122208)               566150.46   4191434.22
181.86726  (13112908)
        566170.46   4191434.22      219.27468  (12011608)               566190.46   4191434.22
267.74376  (12011608)
        566210.46   4191434.22      293.48618  (12011608)               566230.46   4191434.22
305.01249  (12011608)
        566250.46   4191434.22      336.02565  (12011608)               566270.46   4191434.22
361.99242  (12011608)
        566290.46   4191434.22      362.80952  (13011108)               566310.46   4191434.22
370.94447  (13011108)
        566330.46   4191434.22      350.95653  (13011108)               566350.46   4191434.22
299.63845  (13011108)
        566370.46   4191434.22      232.08706  (13011108)               566390.46   4191434.22
214.85898  (09121808)
        566410.46   4191434.22      213.53921  (09121808)               566430.46   4191434.22
204.89820  (09121808)
        566450.46   4191434.22      187.29326  (09121808)               566470.46   4191434.22
161.15952  (09121808)
        566490.46   4191434.22      128.48699  (09121808)               566510.46   4191434.22
105.40362  (13011008)
        566530.46   4191434.22      116.50343  (13011008)               566550.46   4191434.22
124.94015  (13011008)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD (M)
CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
        566570.46   4191434.22      130.23226  (13011008)               565570.46   4191454.22
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23.58777 (11121216)
        565590.46   4191454.22   24.63427 (11121216)   565610.46   4191454.22
25.59865 (11121216)
        565630.46   4191454.22   26.41508 (11121216)   565650.46   4191454.22
27.06481 (11121216)
        565670.46   4191454.22   27.51067 (11121216)   565690.46   4191454.22
27.70631 (11121216)
        565710.46   4191454.22   27.60068 (11121216)   565730.46   4191454.22
27.18889 (11121216)
        565750.46   4191454.22   27.67437 (09120916)   565770.46   4191454.22
29.40253 (09120916)
        565790.46   4191454.22   30.90105 (09120916)   565810.46   4191454.22
33.97237 (10121616)
        565830.46   4191454.22   38.10281 (10121616)   565850.46   4191454.22
42.21811 (10121616)
        565870.46   4191454.22   46.15172 (10121616)   565890.46   4191454.22
49.53680 (10121616)
        565910.46   4191454.22   52.14477 (10121616)   565930.46   4191454.22
53.97332 (10121616)
        565950.46   4191454.22   54.72466 (10121616)   565970.46   4191454.22
54.17094 (10121616)
        565990.46   4191454.22   52.45618 (10121616)   566010.46   4191454.22
49.56727 (10121616)
        566030.46   4191454.22   51.31492 (12120516)   566050.46   4191454.22
53.15794 (12120516)
        566070.46   4191454.22   53.01464 (12120516)   566090.46   4191454.22
55.53149 (12011608)
        566110.46   4191454.22   195.94549 (10122208)   566130.46   4191454.22
187.97889 (10122208)
        566150.46   4191454.22   184.17752 (13112908)   566170.46   4191454.22
196.56029 (13112908)
        566190.46   4191454.22   239.20376 (12011608)   566210.46   4191454.22
295.61878 (12011608)
        566230.46   4191454.22   344.49041 (12011608)   566250.46   4191454.22
369.14238 (12011608)
        566270.46   4191454.22   345.30557 (12011608)   566290.46   4191454.22
320.79800 (13011108)
        566310.46   4191454.22   326.56190 (13011108)   566330.46   4191454.22
309.52715 (13011108)
        566350.46   4191454.22   266.56341 (13011108)   566370.46   4191454.22
226.76571 (10121508)
        566390.46   4191454.22   224.73252 (09121808)   566410.46   4191454.22
222.20838 (09121808)
        566430.46   4191454.22   207.53672 (09121808)   566450.46   4191454.22
181.37728 (09121808)
        566470.46   4191454.22   147.64985 (09121808)   566490.46   4191454.22
111.08544 (09121808)
        566510.46   4191454.22   121.77333 (13011008)   566530.46   4191454.22
131.03310 (13011008)
        566550.46   4191454.22   136.85305 (13011008)   566570.46   4191454.22
138.97986 (13011008)
        565570.46   4191474.22   23.69742 (11121216)   565590.46   4191474.22
25.01757 (11121216)
        565610.46   4191474.22   26.29989 (11121216)   565630.46   4191474.22
27.46155 (11121216)
        565650.46   4191474.22   28.48002 (11121216)   565670.46   4191474.22
29.30160 (11121216)
        565690.46   4191474.22   29.87848 (11121216)   565710.46   4191474.22
30.18298 (11121216)
        565730.46   4191474.22   30.17524 (11121216)   565750.46   4191474.22
29.83148 (11121216)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565770.46	4191474.22	29.97922	(09120916)	565790.46	4191474.22	31.96201	(09120916)
565810.46	4191474.22	33.72009	(09120916)	565830.46	4191474.22	37.86741	(10121616)
565850.46	4191474.22	42.64587	(10121616)	565870.46	4191474.22	47.30417	(10121616)
565890.46	4191474.22	51.47105	(10121616)	565910.46	4191474.22	54.94795	(10121616)
565930.46	4191474.22	57.76350	(10121616)	565950.46	4191474.22	59.54291	(10121616)
565970.46	4191474.22	59.91264	(10121616)	565990.46	4191474.22	59.01537	(10121616)
566010.46	4191474.22	56.58522	(10121616)	566030.46	4191474.22	54.91157	(12120516)
566050.46	4191474.22	57.41675	(12120516)	566070.46	4191474.22	60.64477	(12120516)
566090.46	4191474.22	216.68173	(10122208)	566110.46	4191474.22	249.34745	(10122208)
566130.46	4191474.22	196.17461	(10122208)	566150.46	4191474.22	175.33525	(12011609)
566170.46	4191474.22	182.98422	(13112908)	566190.46	4191474.22	207.01876	(12011608)
566210.46	4191474.22	254.75008	(12011608)	566230.46	4191474.22	297.10201	(12011608)
566250.46	4191474.22	320.36631	(12011608)	566270.46	4191474.22	304.17180	(12011608)
566290.46	4191474.22	300.91696	(13011108)	566310.46	4191474.22	310.03064	(13011108)
566330.46	4191474.22	291.87827	(13011108)	566350.46	4191474.22	249.45315	(13011108)
566370.46	4191474.22	234.13333	(09121808)	566390.46	4191474.22	238.74842	(09121808)
566410.46	4191474.22	229.44102	(09121808)	566430.46	4191474.22		

204.66320 (09121808)
        566450.46   4191474.22   168.91399 (09121808)   566470.46   4191474.22
129.25991 (09121808)
        566490.46   4191474.22   127.43364 (13011008)   566510.46   4191474.22
137.60073 (13011008)
        566530.46   4191474.22   143.98223 (13011008)   566550.46   4191474.22
146.29317 (13011008)
        566570.46   4191474.22   144.60151 (13011008)   565570.46   4191494.22
23.45803 (11121216)
        565590.46   4191494.22   25.03986 (11121216)   565610.46   4191494.22
26.62094 (11121216)
        565630.46   4191494.22   28.11463 (11121216)   565650.46   4191494.22
29.51068 (11121216)
        565670.46   4191494.22   30.74168 (11121216)   565690.46   4191494.22
31.75629 (11121216)
        565710.46   4191494.22   32.53768 (11121216)   565730.46   4191494.22
33.01526 (11121216)
        565750.46   4191494.22   33.13639 (11121216)   565770.46   4191494.22
32.86618 (11121216)
        565790.46   4191494.22   32.67134 (09120916)   565810.46   4191494.22
34.99352 (09120916)
        565830.46   4191494.22   37.21585 (10121616)   565850.46   4191494.22
42.62225 (10121616)
        565870.46   4191494.22   48.00217 (10121616)   565890.46   4191494.22
53.02916 (10121616)
        565910.46   4191494.22   57.53473 (10121616)   565930.46   4191494.22
61.51608 (10121616)
        565950.46   4191494.22   64.48244 (10121616)   565970.46   4191494.22
66.02547 (10121616)
        565990.46   4191494.22   66.13223 (10121616)   566010.46   4191494.22
64.29133 (10121616)
        566030.46   4191494.22   60.32387 (10121616)   566050.46   4191494.22
62.19878 (12120516)
        566070.46   4191494.22   137.91466 (10122208)   566090.46   4191494.22
301.36945 (10122208)
        566110.46   4191494.22   271.67676 (10122208)   566130.46   4191494.22
193.80213 (10122208)
        566150.46   4191494.22   170.21169 (12011609)   566170.46   4191494.22
177.62983 (13112908)
        566190.46   4191494.22   200.57950 (12011608)   566210.46   4191494.22
252.37590 (12011608)
        566230.46   4191494.22   295.99208 (12011608)   566250.46   4191494.22
316.58380 (12011608)
        566270.46   4191494.22   306.76284 (12011608)   566290.46   4191494.22
317.95409 (13011108)
        566310.46   4191494.22   320.41949 (13011108)   566330.46   4191494.22
290.76796 (13011108)
        566350.46   4191494.22   254.55216 (10121508)   566370.46   4191494.22
252.66893 (09121808)
        566390.46   4191494.22   249.48537 (09121808)   566410.46   4191494.22
228.92526 (09121808)
        566430.46   4191494.22   193.16702 (09121808)   566450.46   4191494.22
150.99497 (09121808)
        566470.46   4191494.22   133.49807 (13011008)   566490.46   4191494.22
144.78084 (13011008)
        566510.46   4191494.22   151.79444 (13011008)   566530.46   4191494.22
154.27488 (13011008)
        566550.46   4191494.22   152.32486 (13011008)   566570.46   4191494.22
146.39593 (13011008)
        565570.46   4191514.22   22.85879 (11121216)   565590.46   4191514.22
24.67670 (11121216)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565610.46	4191514.22	26.52211	(11121216)	565630.46	4191514.22	28.31725	(11121216)
565650.46	4191514.22	30.08042	(11121216)	565670.46	4191514.22	31.73705	(11121216)
565690.46	4191514.22	33.23286	(11121216)	565710.46	4191514.22	34.54301	(11121216)
565730.46	4191514.22	35.57434	(11121216)	565750.46	4191514.22	36.25048	(11121216)
565770.46	4191514.22	36.53550	(11121216)	565790.46	4191514.22	36.42388	(11121216)
565810.46	4191514.22	35.87666	(11121216)	565830.46	4191514.22	38.42706	(09120916)
565850.46	4191514.22	42.07117	(10121616)	565870.46	4191514.22	48.14660	(10121616)
565890.46	4191514.22	54.12728	(10121616)	565910.46	4191514.22	59.86088	(10121616)
565930.46	4191514.22	65.21679	(10121616)	565950.46	4191514.22	69.48038	(10121616)
565970.46	4191514.22	72.47005	(10121616)	565990.46	4191514.22	73.71096	(10121616)
566010.46	4191514.22	72.61702	(10121616)	566030.46	4191514.22	69.03925	(10121616)
566050.46	4191514.22	69.18483	(12120516)	566070.46	4191514.22	300.57946	(11120608)
566090.46	4191514.22	343.67854	(10122208)	566110.46	4191514.22	276.73946	(10122208)
566130.46	4191514.22	187.01247	(10122208)	566150.46	4191514.22	166.92489	(10121309)
566170.46	4191514.22	182.43626	(13112908)	566190.46	4191514.22	208.34450	(12011608)
566210.46	4191514.22	266.22642	(12011608)	566230.46	4191514.22	312.97962	(12011608)
566250.46	4191514.22	331.65683	(12011608)	566270.46	4191514.22		

314.01625 (12011608)
        566290.46   4191514.22   332.48386 (13011108)   566310.46   4191514.22
324.97862 (13011108)
        566330.46   4191514.22   283.43382 (13011108)   566350.46   4191514.22
267.31300 (10121508)
        566370.46   4191514.22   269.31626 (09121808)   566390.46   4191514.22
252.48552 (09121808)
        566410.46   4191514.22   219.11231 (09121808)   566430.46   4191514.22
175.69725 (09121808)
        566450.46   4191514.22   140.06516 (13011008)   566470.46   4191514.22
152.59126 (13011008)
        566490.46   4191514.22   160.42214 (13011008)   566510.46   4191514.22
163.11239 (13011008)
        566530.46   4191514.22   160.81688 (13011008)   566550.46   4191514.22
154.11365 (13011008)
        566570.46   4191514.22   143.85332 (13011008)   565570.46   4191534.22
21.88552 (11121216)
        565590.46   4191534.22   23.86151 (11121216)   565610.46   4191534.22
25.90196 (11121216)
        565630.46   4191534.22   27.98627 (11121216)   565650.46   4191534.22
30.08766 (11121216)
        565670.46   4191534.22   32.15504 (11121216)   565690.46   4191534.22
34.14332 (11121216)
        565710.46   4191534.22   36.01154 (11121216)   565730.46   4191534.22
37.65755 (11121216)
        565750.46   4191534.22   38.96753 (11121216)   565770.46   4191534.22
39.91312 (11121216)
        565790.46   4191534.22   40.45890 (11121216)   565810.46   4191534.22
40.54000 (11121216)
        565830.46   4191534.22   40.04040 (11121216)   565850.46   4191534.22
42.61867 (09120916)
        565870.46   4191534.22   47.66908 (10121616)   565890.46   4191534.22
54.61677 (10121616)
        565910.46   4191534.22   61.61854 (10121616)   565930.46   4191534.22
68.48595 (10121616)
        565950.46   4191534.22   74.25004 (10121616)   565970.46   4191534.22
78.71029 (10121616)
        565990.46   4191534.22   81.38141 (10121616)   566010.46   4191534.22
81.57577 (10121616)
        566030.46   4191534.22   78.83119 (10121616)   566050.46   4191534.22
111.93328 (11120608)
        566070.46   4191534.22   403.32444 (11120608)   566090.46   4191534.22
364.17250 (10122208)
        566110.46   4191534.22   274.43137 (10122208)   566130.46   4191534.22
190.34495 (10122208)
        566150.46   4191534.22   172.22255 (10121309)   566170.46   4191534.22
192.85528 (13112908)
        566190.46   4191534.22   220.10230 (12011608)   566210.46   4191534.22
282.51834 (12011608)
        566230.46   4191534.22   329.63339 (12011608)   566250.46   4191534.22
343.76821 (12011608)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566270.46	4191534.22	330.09334	(13011108)	566290.46	4191534.22	346.91856	(13011108)
566310.46	4191534.22	326.55550	(13011108)	566330.46	4191534.22	286.71495	(10121508)
566350.46	4191534.22	283.49051	(09121808)	566370.46	4191534.22	274.92995	(09121808)
566390.46	4191534.22	246.18870	(09121808)	566410.46	4191534.22	203.24223	(09121808)
566430.46	4191534.22	154.54341	(09121808)	566450.46	4191534.22	161.27027	(13011008)
566470.46	4191534.22	169.97740	(13011008)	566490.46	4191534.22	172.95031	(13011008)
566510.46	4191534.22	170.29569	(13011008)	566530.46	4191534.22	162.67264	(13011008)
566550.46	4191534.22	151.13705	(13011008)	566570.46	4191534.22	136.87570	(13011008)
565570.46	4191554.22	20.56087	(11121216)	565590.46	4191554.22	22.63938	(11121216)
565610.46	4191554.22	24.82805	(11121216)	565630.46	4191554.22	27.13629	(11121216)
565650.46	4191554.22	29.52364	(11121216)	565670.46	4191554.22	31.96022	(11121216)
565690.46	4191554.22	34.41057	(11121216)	565710.46	4191554.22	36.82302	(11121216)
565730.46	4191554.22	39.11313	(11121216)	565750.46	4191554.22	41.12276	(11121216)
565770.46	4191554.22	42.82666	(11121216)	565790.46	4191554.22	44.15617	(11121216)
565810.46	4191554.22	45.02571	(11121216)	565830.46	4191554.22	45.33960	(11121216)
565850.46	4191554.22	45.10528	(11121216)	565870.46	4191554.22	47.42005	(09120916)
565890.46	4191554.22	54.41986	(10121616)	565910.46	4191554.22	62.71547	(10121616)
565930.46	4191554.22	71.13019	(10121616)	565950.46	4191554.22	78.55520	(10121616)
565970.46	4191554.22	84.68447	(10121616)	565990.46	4191554.22	89.21033	(10121616)
566010.46	4191554.22	91.21687	(10121616)	566030.46	4191554.22	90.57473	(10121616)
566050.46	4191554.22	399.05321	(11120608)	566070.46	4191554.22	463.08279	(11120608)
566090.46	4191554.22	369.70905	(10122208)	566110.46	4191554.22		

282.89098 (10122208)
        566130.46   4191554.22   208.89761 (10122208)   566150.46   4191554.22
184.34873 (10121309)
        566170.46   4191554.22   204.19021 (13112908)   566190.46   4191554.22
235.91051 (12011608)
        566210.46   4191554.22   304.27231 (12011608)   566230.46   4191554.22
349.81083 (12011608)
        566250.46   4191554.22   356.32213 (12011608)   566270.46   4191554.22
353.78669 (13011108)
        566290.46   4191554.22   358.32624 (13011108)   566310.46   4191554.22
323.84374 (13011108)
        566330.46   4191554.22   295.01472 (10121508)   566350.46   4191554.22
295.31632 (09121808)
        566370.46   4191554.22   273.60176 (09121808)   566390.46   4191554.22
233.16160 (09121808)
        566410.46   4191554.22   182.40183 (09121808)   566430.46   4191554.22
170.91072 (13011008)
        566450.46   4191554.22   180.72556 (13011008)   566470.46   4191554.22
183.98776 (13011008)
        566490.46   4191554.22   180.88668 (13011008)   566510.46   4191554.22
172.22970 (13011008)
        566530.46   4191554.22   159.19251 (13011008)   566550.46   4191554.22
143.22621 (13011008)
        566570.46   4191554.22   141.15956 (12010208)   565570.46   4191574.22
19.72304 (12011216)
        565590.46   4191574.22   21.33621 (12011216)   565610.46   4191574.22
23.33327 (11121216)
        565630.46   4191574.22   25.77711 (11121216)   565650.46   4191574.22
28.37839 (11121216)
        565670.46   4191574.22   31.11735 (11121216)   565690.46   4191574.22
33.95784 (11121216)
        565710.46   4191574.22   36.86009 (11121216)   565730.46   4191574.22
39.79000 (11121216)
        565750.46   4191574.22   42.53734 (11121216)   565770.46   4191574.22
45.06740 (11121216)
        565790.46   4191574.22   47.29678 (11121216)   565810.46   4191574.22
49.10383 (11121216)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                     L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                     L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                     L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565830.46	4191574.22	50.30388	(11121216)	565850.46	4191574.22	51.03423	(11121216)
565870.46	4191574.22	51.06942	(11121216)	565890.46	4191574.22	53.46388	(10121616)
565910.46	4191574.22	63.01273	(10121616)	565930.46	4191574.22	72.86496	(10121616)
565950.46	4191574.22	82.03595	(10121616)	565970.46	4191574.22	90.04711	(10121616)
565990.46	4191574.22	97.05776	(10121616)	566010.46	4191574.22	101.48478	(10121616)
566030.46	4191574.22	108.33627	(10121616)	566050.46	4191574.22	539.35113	(11120608)
566070.46	4191574.22	501.58666	(11120608)	566090.46	4191574.22	379.98401	(10122208)
566110.46	4191574.22	309.08654	(10122208)	566130.46	4191574.22	239.24416	(10122208)
566150.46	4191574.22	198.92804	(10121309)	566170.46	4191574.22	217.12593	(13112908)
566190.46	4191574.22	258.62617	(12011608)	566210.46	4191574.22	329.80278	(12011608)
566230.46	4191574.22	370.85618	(12011608)	566250.46	4191574.22	368.17438	(12011608)
566270.46	4191574.22	375.43795	(13011108)	566290.46	4191574.22	366.13241	(13011108)
566310.46	4191574.22	317.12688	(10121508)	566330.46	4191574.22	313.33262	(09121808)
566350.46	4191574.22	300.88693	(09121808)	566370.46	4191574.22	265.21304	(09121808)
566390.46	4191574.22	213.93588	(09121808)	566410.46	4191574.22	181.50472	(13011008)
566430.46	4191574.22	192.71368	(13011008)	566450.46	4191574.22	196.43890	(13011008)
566470.46	4191574.22	192.86554	(13011008)	566490.46	4191574.22	182.95912	(13011008)
566510.46	4191574.22	168.19399	(13011008)	566530.46	4191574.22	152.34228	(12010208)
566550.46	4191574.22	150.53111	(12010208)	566570.46	4191574.22	145.92061	(12010208)
565570.46	4191594.22	19.39280	(11121514)	565590.46	4191594.22	20.44838	(12011216)
565610.46	4191594.22	22.29227	(12011216)	565630.46	4191594.22	24.20918	(12011216)
565650.46	4191594.22	26.74014	(11121216)	565670.46	4191594.22	29.66320	(11121216)
565690.46	4191594.22	32.77498	(11121216)	565710.46	4191594.22	36.06738	(11121216)
565730.46	4191594.22	39.55940	(11121216)	565750.46	4191594.22	43.01206	(11121216)
565770.46	4191594.22	46.37876	(11121216)	565790.46	4191594.22	49.54106	(11121216)
565810.46	4191594.22	52.35954	(11121216)	565830.46	4191594.22	54.70414	(11121216)
565850.46	4191594.22	56.68302	(11121216)	565870.46	4191594.22	58.15259	(11121216)
565890.46	4191594.22	58.77855	(11121216)	565910.46	4191594.22	62.49838	(10121616)
565930.46	4191594.22	73.60986	(10121616)	565950.46	4191594.22		

84.43796 (10121616)
        565970.46   4191594.22   94.87729 (10121616)   565990.46   4191594.22
104.83018 (10121616)
        566010.46   4191594.22   112.09361 (10121616)   566030.46   4191594.22
287.44304 (11120608)
        566050.46   4191594.22   588.90883 (11120608)   566070.46   4191594.22
534.97524 (11120608)
        566090.46   4191594.22   398.04046 (10122208)   566110.46   4191594.22
341.34298 (10122208)
        566130.46   4191594.22   275.00311 (10122208)   566150.46   4191594.22
214.78061 (10121309)
        566170.46   4191594.22   231.58562 (13112908)   566190.46   4191594.22
285.14563 (12011608)
        566210.46   4191594.22   357.41519 (12011608)   566230.46   4191594.22
392.06938 (12011608)
        566250.46   4191594.22   378.96620 (12011608)   566270.46   4191594.22
394.17346 (13011108)
        566290.46   4191594.22   369.78028 (13011108)   566310.46   4191594.22
329.12172 (10121508)
        566330.46   4191594.22   326.99161 (09121808)   566350.46   4191594.22
298.90327 (09121808)
        566370.46   4191594.22   249.38053 (09121808)   566390.46   4191594.22
193.36208 (13011008)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - - -
        566410.46   4191594.22   206.23523 (13011008)   566430.46   4191594.22
210.53132 (13011008)
        566450.46   4191594.22   206.43044 (13011008)   566470.46   4191594.22
195.08044 (13011008)
        566490.46   4191594.22   178.25537 (13011008)   566510.46   4191594.22
164.10195 (12010208)
        566530.46   4191594.22   160.81577 (12010208)   566550.46   4191594.22
154.46487 (12010208)
        566570.46   4191594.22   145.72856 (12010208)   565570.46   4191614.22
19.58938 (11121514)

565590.46 4191614.22 20.75120 (11121514) 565610.46 4191614.22
21.95756 (11121514)
565630.46 4191614.22 23.20653 (12011216) 565650.46 4191614.22
25.39325 (12011216)
565670.46 4191614.22 27.70240 (12011216) 565690.46 4191614.22
30.93010 (11121216)
565710.46 4191614.22 34.51703 (11121216) 565730.46 4191614.22
38.43294 (11121216)
565750.46 4191614.22 42.48889 (11121216) 565770.46 4191614.22
46.61976 (11121216)
565790.46 4191614.22 50.68747 (11121216) 565810.46 4191614.22
54.57075 (11121216)
565830.46 4191614.22 58.23622 (11121216) 565850.46 4191614.22
61.77263 (11121216)
565870.46 4191614.22 64.99332 (11121216) 565890.46 4191614.22
67.36035 (11121216)
565910.46 4191614.22 68.31692 (11121216) 565930.46 4191614.22
73.09422 (10121616)
565950.46 4191614.22 85.64010 (10121616) 565970.46 4191614.22
98.89915 (10121616)
565990.46 4191614.22 112.15008 (10121616) 566010.46 4191614.22
122.72952 (10121616)
566030.46 4191614.22 454.56370 (13122708) 566050.46 4191614.22
609.55184 (11120608)
566070.46 4191614.22 568.64755 (11120608) 566090.46 4191614.22
450.19424 (11120608)
566110.46 4191614.22 377.10932 (10122208) 566130.46 4191614.22
316.04549 (10122208)
566150.46 4191614.22 232.11547 (10121309) 566170.46 4191614.22
247.98127 (09022708)
566190.46 4191614.22 315.18166 (12011608) 566210.46 4191614.22
386.86931 (12011608)
566230.46 4191614.22 413.15237 (12011608) 566250.46 4191614.22
405.64464 (13011108)
566270.46 4191614.22 409.40031 (13011108) 566290.46 4191614.22
368.74580 (13011108)
566310.46 4191614.22 350.49849 (09121808) 566330.46 4191614.22
333.11659 (09121808)
566350.46 4191614.22 288.41912 (09121808) 566370.46 4191614.22
226.23093 (09121808)
566390.46 4191614.22 221.62736 (13011008) 566410.46 4191614.22
226.62814 (13011008)
566430.46 4191614.22 221.88872 (13011008) 566450.46 4191614.22
208.80020 (13011008)
566470.46 4191614.22 189.52930 (13011008) 566490.46 4191614.22
177.20110 (12010208)
566510.46 4191614.22 172.07184 (12010208) 566530.46 4191614.22
163.61187 (12010208)
566550.46 4191614.22 152.68882 (12010208) 566570.46 4191614.22
142.17736 (13102408)
565570.46 4191634.22 19.46090 (11121514) 565590.46 4191634.22
20.76667 (11121514)
565610.46 4191634.22 22.15091 (11121514) 565630.46 4191634.22
23.57550 (11121514)
565650.46 4191634.22 25.02447 (11121514) 565670.46 4191634.22
26.53765 (12011216)
565690.46 4191634.22 29.24086 (12011216) 565710.46 4191634.22
32.31941 (11121216)
565730.46 4191634.22 36.47121 (11121216) 565750.46 4191634.22
40.95252 (11121216)
565770.46 4191634.22 45.68624 (11121216) 565790.46 4191634.22

50.56975 (11121216)
        565810.46   4191634.22   55.54454 (11121216)   565830.46   4191634.22
60.70370 (11121216)
        565850.46   4191634.22   66.24977 (11121216)   565870.46   4191634.22
71.33508 (11121216)
        565890.46   4191634.22   75.43444 (11121216)   565910.46   4191634.22
78.04677 (11121216)
        565930.46   4191634.22   78.86414 (11121216)   565950.46   4191634.22
85.66669 (10121616)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - -
        565970.46   4191634.22   102.05288 (10121616)   565990.46   4191634.22
118.63598 (10121616)
        566010.46   4191634.22   133.10206 (10121616)   566030.46   4191634.22
484.82256 (13122708)
        566050.46   4191634.22   654.20910 (13122708)   566070.46   4191634.22
625.40090 (11120608)
        566090.46   4191634.22   529.41479 (11120608)   566110.46   4191634.22
418.90411 (10122208)
        566130.46   4191634.22   362.32092 (10122208)   566150.46   4191634.22
274.39423 (10122208)
        566170.46   4191634.22   269.09902 (09022708)   566190.46   4191634.22
349.24960 (12011608)
        566210.46   4191634.22   418.12717 (12011608)   566230.46   4191634.22
434.05204 (12011608)
        566250.46   4191634.22   432.96183 (13011108)   566270.46   4191634.22
420.94313 (13011108)
        566290.46   4191634.22   371.59437 (10121508)   566310.46   4191634.22
366.35214 (09121808)
        566330.46   4191634.22   330.25814 (09121808)   566350.46   4191634.22
268.97058 (09121808)
        566370.46   4191634.22   239.29561 (13011008)   566390.46   4191634.22
245.23357 (13011008)
        565570.46   4191654.22   19.08370 (10102815)   565590.46   4191654.22
20.43225 (11121514)

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        565610.46   4191654.22       21.95942  (11121514)              565630.46   4191654.22
23.55816  (11121514)
        565650.46   4191654.22       25.22423  (11121514)              565670.46   4191654.22
26.99039  (11121514)
        565690.46   4191654.22       28.87027  (11121514)              565710.46   4191654.22
30.89683  (12011216)
        565730.46   4191654.22       34.31842  (12011216)              565750.46   4191654.22
38.44495  (11121216)
        565770.46   4191654.22       43.66015  (11121216)              565790.46   4191654.22
49.34042  (11121216)
        565810.46   4191654.22       55.45292  (11121216)              565830.46   4191654.22
62.00025  (11121216)
        566010.46   4191654.22      141.96421  (10121616)              566030.46   4191654.22
172.53547  (10121616)
        566050.46   4191654.22      639.57420  (13122708)              566070.46   4191654.22
714.25385  (11120608)
        566090.46   4191654.22      652.86662  (11120608)              566110.46   4191654.22
496.23193  (11120608)
        566130.46   4191654.22      415.55915  (10122208)              566150.46   4191654.22
326.31646  (10122208)
        566170.46   4191654.22      293.68604  (09022708)              566190.46   4191654.22
387.91515  (12011608)
        566210.46   4191654.22      450.82917  (12011608)              566230.46   4191654.22
454.54777  (12011608)
        566250.46   4191654.22      457.05009  (13011108)              566270.46   4191654.22
428.50344  (13011108)
        566290.46   4191654.22      396.83207  (09121808)              566310.46   4191654.22
373.28532  (09121808)
        565570.46   4191674.22       20.05021  (10102815)              565590.46   4191674.22
20.90909  (10102815)
        565610.46   4191674.22       21.80614  (10102815)              565630.46   4191674.22
23.09234  (11121514)
        565650.46   4191674.22       24.93643  (11121514)              565670.46   4191674.22
26.93341  (11121514)
        565690.46   4191674.22       29.08954  (11121514)              565710.46   4191674.22
31.38624  (11121514)
        565730.46   4191674.22       33.79929  (11121514)              566010.46   4191674.22
148.70946  (10121616)
        566030.46   4191674.22      170.06952  (10121616)              566050.46   4191674.22
196.96946  (10121616)
        566070.46   4191674.22      523.93696  (11120608)              566090.46   4191674.22
798.55824  (11120608)
        566110.46   4191674.22      660.96969  (11120608)              566130.46   4191674.22
495.56927  (10122208)
        566150.46   4191674.22      391.15726  (10122208)              566170.46   4191674.22
322.40674  (09022708)
        566190.46   4191674.22      431.89693  (12011608)              566210.46   4191674.22
484.35512  (12011608)
        566230.46   4191674.22      477.53665  (13011108)              566250.46   4191674.22
477.88376  (13011108)
        566270.46   4191674.22      431.62835  (13011108)              566290.46   4191674.22
415.58846  (09121808)
        565570.46   4191694.22       20.73144  (10102815)              565590.46   4191694.22
21.74365  (10102815)
        565610.46   4191694.22       22.80036  (10102815)              565630.46   4191694.22
23.92182  (10102815)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565650.46	4191694.22	25.11122	(10102815)	565670.46	4191694.22	26.37617	(10102815)
565690.46	4191694.22	28.64855	(11121514)	565710.46	4191694.22	31.18992	(11121514)
565730.46	4191694.22	33.92122	(11121514)	566050.46	4191694.22	205.70907	(10121616)
566070.46	4191694.22	229.78702	(10121616)	566090.46	4191694.22	619.55420	(11120608)
566110.46	4191694.22	877.15560	(11120608)	566130.46	4191694.22	666.76479	(11120608)
566150.46	4191694.22	491.62498	(10122208)	566170.46	4191694.22	378.29971	(12011608)
566190.46	4191694.22	483.01972	(12011608)	566210.46	4191694.22	518.58748	(12011608)
566230.46	4191694.22	511.72838	(13011108)	566250.46	4191694.22	495.86967	(13011108)
566270.46	4191694.22	454.97443	(09121808)	565570.46	4191714.22	21.04948	(10102815)
565590.46	4191714.22	22.20237	(10102815)	565610.46	4191714.22	23.42902	(10102815)
565630.46	4191714.22	24.72743	(10102815)	565650.46	4191714.22	26.12678	(10102815)
565670.46	4191714.22	27.63745	(10102815)	565690.46	4191714.22	29.26112	(10102815)
565710.46	4191714.22	31.00612	(10102815)	565730.46	4191714.22	33.21558	(11121514)
566070.46	4191714.22	253.73865	(10121616)	566090.46	4191714.22	288.90734	(10121616)
566110.46	4191714.22	691.09085	(11120608)	566130.46	4191714.22	949.79881	(11120608)
566150.46	4191714.22	671.05732	(10122208)	566170.46	4191714.22	466.16301	(12011608)
566190.46	4191714.22	546.19170	(12011608)	565570.46	4191734.22	20.98563	(10102815)
565590.46	4191734.22	22.24957	(10102815)	565610.46	4191734.22	23.61970	(10102815)
565630.46	4191734.22	25.05905	(10102815)	565650.46	4191734.22	26.63276	(10102815)

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        565670.46   4191734.22       28.35191  (10102815)               565690.46   4191734.22
30.21941  (10102815)
        565710.46   4191734.22       32.25308  (10102815)               566110.46   4191734.22
354.83917  (10121616)
        566130.46   4191734.22      481.13921  (11120608)               566150.46   4191734.22
974.95983  (11120608)
        566170.46   4191734.22      635.82283  (12011608)               566190.46   4191734.22
633.92374  (12011608)
        565570.46   4191754.22       20.57353  (13021508)               565590.46   4191754.22
21.86808  (10102815)
        565610.46   4191754.22       23.31314  (10102815)               565630.46   4191754.22
24.84274  (10102815)
        565650.46   4191754.22       26.56602  (10102815)               565670.46   4191754.22
28.45599  (10102815)
        565690.46   4191754.22       30.50978  (10102815)               565710.46   4191754.22
32.76542  (10102815)
        566130.46   4191754.22      487.43418  (10121616)               566150.46   4191754.22
799.34536  (11120608)
        566170.46   4191754.22      990.35255  (12011608)               566190.46   4191754.22
853.05495  (12011608)
        565570.46   4191774.22       20.77373  (13021508)               565590.46   4191774.22
22.02090  (13021508)
        565610.46   4191774.22       23.39966  (13021508)               565630.46   4191774.22
24.82843  (13021508)
        565650.46   4191774.22       26.53653  (13021508)               565670.46   4191774.22
28.41497  (13021508)
        565690.46   4191774.22       30.40190  (13021508)               565710.46   4191774.22
32.52602  (13021508)
        566170.46   4191774.22     1268.53041  (12011608)               566190.46   4191774.22
1292.30953  (12011608)
        565570.46   4191794.22       20.93196  (13021508)               565590.46   4191794.22
22.17435  (13021508)
        565610.46   4191794.22       23.57156  (13021508)               565630.46   4191794.22
25.06225  (13021508)
        565650.46   4191794.22       26.85144  (13021508)               565670.46   4191794.22
28.83918  (13021508)
        565690.46   4191794.22       30.93514  (13021508)               565710.46   4191794.22
33.13592  (13021508)
        565570.46   4191814.22       21.03050  (13021508)               565590.46   4191814.22
22.30534  (13021508)
        565610.46   4191814.22       23.73499  (13021508)               565630.46   4191814.22
25.22880  (13021508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 281
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565650.46	4191814.22	27.09576	(13021508)	565670.46	4191814.22	29.16128	(13021508)
565690.46	4191814.22	31.30956	(13021508)	565710.46	4191814.22	33.54584	(13021508)
565570.46	4191834.22	21.08347	(13021508)	565590.46	4191834.22	22.38598	(13021508)
565610.46	4191834.22	23.83196	(13021508)	565630.46	4191834.22	25.34273	(13021508)
565650.46	4191834.22	27.20766	(13021508)	565670.46	4191834.22	29.27158	(13021508)
565690.46	4191834.22	31.45592	(13021508)	565710.46	4191834.22	33.76998	(13021508)
565570.46	4191854.22	21.09241	(13021508)	565590.46	4191854.22	22.48739	(11021811)
565610.46	4191854.22	24.10419	(11021811)	565630.46	4191854.22	25.84144	(11021811)
565650.46	4191854.22	27.82351	(11021811)	565670.46	4191854.22	30.02273	(11021811)
565690.46	4191854.22	32.45272	(11021811)	565710.46	4191854.22	35.13937	(11021811)
565570.46	4191874.22	22.97709	(11021811)	565590.46	4191874.22	24.60236	(11021811)
565610.46	4191874.22	26.36099	(11021811)	565630.46	4191874.22	28.28921	(11021811)
565650.46	4191874.22	30.45709	(11021811)	565670.46	4191874.22	32.86079	(11021811)
565690.46	4191874.22	35.51864	(11021811)	565710.46	4191874.22	38.45597	(11021811)
565570.46	4191894.22	24.57447	(11021811)	565590.46	4191894.22	26.28957	(11021811)
565610.46	4191894.22	28.14341	(11021811)	565630.46	4191894.22	30.18902	(11021811)
565650.46	4191894.22	32.45123	(11021811)	565670.46	4191894.22	34.95783	(11021811)
565690.46	4191894.22	37.71901	(11021811)	565710.46	4191894.22	40.75119	(11021811)
565570.46	4191914.22	25.70727	(11021811)	565590.46	4191914.22	27.44998	(11021811)
565610.46	4191914.22	29.34555	(11021811)	565630.46	4191914.22	31.42180	(11021811)
565650.46	4191914.22	33.67157	(11021811)	565670.46	4191914.22	36.16581	(11021811)
565690.46	4191914.22	38.88980	(11021811)	565710.46	4191914.22	41.83636	(11021811)
565570.46	4191934.22	26.39729	(11021811)	565590.46	4191934.22	28.10861	(11021811)
565610.46	4191934.22	29.94925	(11021811)	565630.46	4191934.22	31.92360	(11021811)
565650.46	4191934.22	34.04093	(11021811)	565670.46	4191934.22	36.35722	(11021811)
565690.46	4191934.22	38.87714	(11021811)	565710.46	4191934.22	41.61060	(11021811)

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       565570.46   4191954.22       26.51496  (11021811)               565590.46   4191954.22
28.12884  (11021811)
       565610.46   4191954.22       29.84433  (11021811)               565630.46   4191954.22
31.63698  (11021811)
       565650.46   4191954.22       33.54543  (11021811)               565670.46   4191954.22
35.59308  (11021811)
       565690.46   4191954.22       37.80920  (11021811)               565710.46   4191954.22
40.22582  (11021811)
       565570.46   4191974.22       26.06044  (11021811)               565590.46   4191974.22
27.51648  (11021811)
       565610.46   4191974.22       29.04838  (11021811)               565630.46   4191974.22
30.60491  (11021811)
       565650.46   4191974.22       32.25387  (11021811)               565670.46   4191974.22
33.98011  (11021811)
       565690.46   4191974.22       35.83470  (11021811)               565710.46   4191974.22
37.87530  (11021811)
       565570.46   4191994.22       25.00517  (11021811)               565590.46   4191994.22
26.26647  (11021811)
       565610.46   4191994.22       27.58581  (11021811)               565630.46   4191994.22
28.92422  (11021811)
       565650.46   4191994.22       30.28235  (11021811)               565670.46   4191994.22
31.69376  (11021811)
       565690.46   4191994.22       33.18365  (11021811)               565710.46   4191994.22
34.77924  (11021811)
       565570.46   4192014.22       23.44799  (11021811)               565590.46   4192014.22
24.47592  (11021811)
       565610.46   4192014.22       25.56086  (11021811)               565630.46   4192014.22
26.78668  (13021508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***       07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55

               PAGE 282
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP:  SLINE1   ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)  Y-COORD (M)
CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
       565650.46   4192014.22       28.38880  (13021508)               565670.46   4192014.22
30.14525  (13021508)
       565690.46   4192014.22       32.34053  (13111915)               565710.46   4192014.22
35.31767  (13111915)
       565570.46   4192034.22       21.52057  (13021508)               565590.46   4192034.22
```

22.89395 (13021508)
        565610.46   4192034.22   24.79930 (13021508)   565630.46   4192034.22
27.14967 (13021508)
        565650.46   4192034.22   28.82969 (13111915)   565670.46   4192034.22
31.16461 (13111915)
        565690.46   4192034.22   33.69547 (13111915)   565710.46   4192034.22
38.32121 (13111916)
        565570.46   4192054.22   21.84743 (13111915)   565590.46   4192054.22
23.61014 (13111915)
        565610.46   4192054.22   25.60255 (13111915)   565630.46   4192054.22
27.76572 (13111915)
        565650.46   4192054.22   29.83676 (13111915)   565670.46   4192054.22
33.30441 (13111916)
        565690.46   4192054.22   37.66510 (13111916)   565570.46   4192074.22
22.89992 (13111915)
        565590.46   4192074.22   24.56483 (13111915)   565610.46   4192074.22
26.38422 (13111915)
        565630.46   4192074.22   29.20743 (13111916)   565650.46   4192074.22
32.81921 (13111916)
        565670.46   4192074.22   36.74667 (13111916)   565690.46   4192074.22
41.02211 (13111916)
        565570.46   4192094.22   23.60893 (13111915)   565590.46   4192094.22
25.68177 (13111916)
        565610.46   4192094.22   28.74131 (13111916)   565630.46   4192094.22
32.05761 (13111916)
        565650.46   4192094.22   35.60433 (13111916)   565570.46   4192114.22
25.35084 (13111916)
        565590.46   4192114.22   28.17401 (13111916)   565610.46   4192114.22
31.15614 (13111916)
        565630.46   4192114.22   34.30775 (13111916)   565650.46   4192114.22
37.63282 (13111916)
        565570.46   4192134.22   27.41179 (13111916)   565590.46   4192134.22
30.13735 (13111916)
        565610.46   4192134.22   32.95002 (13111916)   565630.46   4192134.22
35.84991 (13111916)
        565570.46   4192154.22   28.98262 (13111916)   565590.46   4192154.22
31.52627 (13111916)
        565610.46   4192154.22   34.08639 (13111916)   565630.46   4192154.22
36.63335 (13111916)
        565570.46   4192174.22   30.07698 (13111916)   565590.46   4192174.22
32.33372 (13111916)
        565610.46   4192174.22   34.53059 (13111916)   565630.46   4192174.22
37.80140 (13111916)
        565690.46   4192174.22   290.06621 (12122408)   565710.46   4192174.22
296.46463 (12122408)
        565730.46   4192174.22   292.41091 (12122408)   565750.46   4192174.22
288.26758 (12122408)
        565770.46   4192174.22   272.49137 (12122408)   565790.46   4192174.22
253.87373 (12122408)
        565810.46   4192174.22   265.03358 (11011008)   565570.46   4192194.22
30.62230 (13111916)
        565590.46   4192194.22   32.50835 (13111916)   565610.46   4192194.22
35.06346 (13111916)
        565630.46   4192194.22   167.61937 (12122408)   565650.46   4192194.22
248.72381 (12122408)
        565670.46   4192194.22   280.59238 (12122408)   565690.46   4192194.22
280.00567 (12122408)
        565710.46   4192194.22   269.69701 (12122408)   565730.46   4192194.22
262.17565 (12122408)
        565750.46   4192194.22   252.43754 (12122408)   565770.46   4192194.22
239.41384 (12122408)

565790.46 4192194.22 252.29864 (11011008) 565810.46 4192194.22
271.99365 (11011008)
565570.46 4192214.22 30.59207 (13111916) 565590.46 4192214.22
32.61407 (13111916)
565610.46 4192214.22 156.66563 (12122408) 565630.46 4192214.22
246.74098 (12122408)
565650.46 4192214.22 269.69610 (12122408) 565670.46 4192214.22
262.47638 (12122408)
565690.46 4192214.22 250.97893 (12122408) 565710.46 4192214.22
241.67299 (12122408)
565730.46 4192214.22 232.16924 (12122408) 565750.46 4192214.22
219.64972 (12122408)
565770.46 4192214.22 242.14082 (11011008) 565790.46 4192214.22
259.76456 (11011008)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 ,
L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,
L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,
L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565810.46	4192214.22	267.34686	(11011008)	565570.46	4192234.22	30.31025	(13111916)
565590.46	4192234.22	117.64827	(12122408)	565610.46	4192234.22	230.45875	(12122408)
565630.46	4192234.22	262.07135	(12122408)	565650.46	4192234.22	251.77941	(12122408)
565670.46	4192234.22	236.94489	(12122408)	565690.46	4192234.22	227.26335	(12122408)
565710.46	4192234.22	217.62389	(12122408)	565730.46	4192234.22	209.50974	(11011008)
565750.46	4192234.22	234.10543	(11011008)	565770.46	4192234.22	251.13361	(11011008)
565790.46	4192234.22	256.92582	(11011008)	565810.46	4192234.22	250.18976	(11011008)
566610.64	4191596.95	128.18190	(13102408)	566594.96	4191572.56	137.35811	(12010208)
566676.84	4191551.66	109.23032	(13102408)	566582.76	4191498.52	140.37793	(13011008)
566607.15	4191478.49	131.77446	(13011008)	566639.38	4191459.32		

119.82907 (13011008)
        566587.99   4191437.55   133.28317 (13011008)   566635.90   4191431.45
124.91146 (13011008)
        566616.73   4191406.19   123.46123 (13011008)   566600.18   4191377.44
107.77413 (13011008)
        566633.29   4191315.60   86.24153 (13011008)   566669.00   4191327.79
101.49995 (13011008)
        566868.47   4191523.78   64.36473 (13102408)   566871.96   4191416.64
74.32513 (12010208)
        566934.68   4191400.96   67.42059 (13102408)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - -
        565570.46   4191234.22   161.16666 (12121108)   565590.46   4191234.22
165.85590 (12121108)
        565610.46   4191234.22   169.47945 (12121108)   565630.46   4191234.22
171.71321 (12121108)
        565650.46   4191234.22   172.56532 (12121108)   565670.46   4191234.22
171.94806 (12121108)
        565690.46   4191234.22   169.73199 (12121108)   565710.46   4191234.22
167.04926 (13122708)
        565730.46   4191234.22   178.91556 (13122708)   565750.46   4191234.22
189.65159 (13122708)
        565770.46   4191234.22   198.91820 (13122708)   565790.46   4191234.22
206.19157 (13122708)
        565810.46   4191234.22   210.81650 (13122708)   565830.46   4191234.22
212.60918 (13122708)
        565850.46   4191234.22   218.17826 (11120608)   565870.46   4191234.22
224.89952 (11120608)
        565890.46   4191234.22   228.30563 (11120608)   565910.46   4191234.22
227.87260 (11120608)
        565930.46   4191234.22   223.80950 (11120608)   565950.46   4191234.22
216.62045 (11120608)
        565970.46   4191234.22   206.01060 (11120608)   565990.46   4191234.22
196.11353 (10122208)

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        566010.46   4191234.22      194.00797  (10122208)              566030.46   4191234.22
189.76912  (10122208)
        566050.46   4191234.22      183.61143  (10122208)              566070.46   4191234.22
175.02273  (10122208)
        566090.46   4191234.22      164.28668  (10122208)              566110.46   4191234.22
151.94967  (10122208)
        566130.46   4191234.22      143.51811  (12011608)              566150.46   4191234.22
165.27993  (12011608)
        566170.46   4191234.22      187.97050  (12011608)              566190.46   4191234.22
209.97280  (12011608)
        566210.46   4191234.22      229.94820  (12011608)              566230.46   4191234.22
246.53743  (12011608)
        566250.46   4191234.22      258.35719  (12011608)              566270.46   4191234.22
472.71205  (12011608)
        566290.46   4191234.22      611.88396  (12011608)              566310.46   4191234.22
595.40038  (12011608)
        566330.46   4191234.22      490.95638  (12011608)              566350.46   4191234.22
418.45844  (13011108)
        566370.46   4191234.22      477.57713  (13011108)              566390.46   4191234.22
515.96223  (13011108)
        566410.46   4191234.22      505.70293  (13011108)              566430.46   4191234.22
442.52313  (13011108)
        566450.46   4191234.22      400.97920  (10121508)              566470.46   4191234.22
411.49210  (10121508)
        566490.46   4191234.22      391.67647  (10121508)              566510.46   4191234.22
402.69503  (09121808)
        566530.46   4191234.22      401.78493  (09121808)              566550.46   4191234.22
374.70740  (09121808)
        566570.46   4191234.22      326.69340  (09121808)              565570.46   4191254.22
164.67146  (13121908)
        565590.46   4191254.22      168.78116  (12121108)              565610.46   4191254.22
173.72078  (12121108)
        565630.46   4191254.22      177.35933  (12121108)              565650.46   4191254.22
179.62306  (12121108)
        565670.46   4191254.22      180.40842  (12121108)              565690.46   4191254.22
179.57884  (12121108)
        565710.46   4191254.22      176.98974  (12121108)              565730.46   4191254.22
178.25583  (13122708)
        565750.46   4191254.22      190.59290  (13122708)              565770.46   4191254.22
201.62774  (13122708)
        565790.46   4191254.22      210.82273  (13122708)              565810.46   4191254.22
217.52415  (13122708)
        565830.46   4191254.22      221.51121  (13122708)              565850.46   4191254.22
223.38750  (11120608)
        565870.46   4191254.22      232.25933  (11120608)              565890.46   4191254.22
237.77294  (11120608)
        565910.46   4191254.22      239.37899  (11120608)              565930.46   4191254.22
236.92097  (11120608)
        565950.46   4191254.22      230.75372  (11120608)              565970.46   4191254.22
220.79765  (11120608)
        565990.46   4191254.22      207.47849  (11120608)              566010.46   4191254.22
204.22343  (10122208)
        566030.46   4191254.22      200.55433  (10122208)              566050.46   4191254.22
195.07464  (10122208)
        566070.46   4191254.22      186.73210  (10122208)              566090.46   4191254.22
175.81011  (10122208)
        566110.46   4191254.22      163.00038  (10122208)              566130.46   4191254.22
151.53319  (12011608)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566150.46	4191254.22	175.17805	(12011608)	566170.46	4191254.22	199.23510	(12011608)
566190.46	4191254.22	222.17656	(12011608)	566210.46	4191254.22	242.91615	(12011608)
566230.46	4191254.22	259.95172	(12011608)	566250.46	4191254.22	273.94099	(12011608)
566270.46	4191254.22	559.10075	(12011608)	566290.46	4191254.22	642.58839	(12011608)
566310.46	4191254.22	587.20763	(12011608)	566330.46	4191254.22	480.61995	(12011608)
566350.46	4191254.22	450.78893	(13011108)	566370.46	4191254.22	508.79509	(13011108)
566390.46	4191254.22	534.38307	(13011108)	566410.46	4191254.22	504.61786	(13011108)
566430.46	4191254.22	421.90221	(13011108)	566450.46	4191254.22	423.52087	(10121508)
566470.46	4191254.22	420.16956	(10121508)	566490.46	4191254.22	408.25150	(09121808)
566510.46	4191254.22	420.79924	(09121808)	566530.46	4191254.22	404.45501	(09121808)
566550.46	4191254.22	362.15721	(09121808)	566570.46	4191254.22	301.96231	(09121808)
565570.46	4191274.22	169.59660	(12120308)	565590.46	4191274.22	172.61144	(13121908)
565610.46	4191274.22	176.89568	(12121108)	565630.46	4191274.22	182.04317	(12121108)
565650.46	4191274.22	185.91053	(12121108)	565670.46	4191274.22	188.29547	(12121108)
565690.46	4191274.22	188.97452	(12121108)	565710.46	4191274.22	187.81512	(12121108)
565730.46	4191274.22	184.74413	(12121108)	565750.46	4191274.22	190.49202	(13122708)
565770.46	4191274.22	203.32896	(13122708)	565790.46	4191274.22	214.51998	(13122708)
565810.46	4191274.22	223.51512	(13122708)	565830.46	4191274.22	229.93170	(13122708)

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        565850.46   4191274.22      233.09098  (13122708)               565870.46   4191274.22
239.15420  (11120608)
        565890.46   4191274.22      247.13892  (11120608)               565910.46   4191274.22
251.00276  (11120608)
        565930.46   4191274.22      250.55748  (11120608)               565950.46   4191274.22
245.77701  (11120608)
        565970.46   4191274.22      236.65290  (11120608)               565990.46   4191274.22
223.53306  (11120608)
        566010.46   4191274.22      214.95482  (10122208)               566030.46   4191274.22
211.67526  (10122208)
        566050.46   4191274.22      206.98413  (10122208)               566070.46   4191274.22
199.02155  (10122208)
        566090.46   4191274.22      188.04434  (10122208)               566110.46   4191274.22
174.87387  (10122208)
        566130.46   4191274.22      160.30749  (10122208)               566150.46   4191274.22
185.89423  (12011608)
        566170.46   4191274.22      211.29745  (12011608)               566190.46   4191274.22
235.13351  (12011608)
        566210.46   4191274.22      256.74092  (12011608)               566230.46   4191274.22
274.37686  (12011608)
        566250.46   4191274.22      336.47001  (12011608)               566270.46   4191274.22
623.03283  (12011608)
        566290.46   4191274.22      663.60697  (12011608)               566310.46   4191274.22
589.17446  (12011608)
        566330.46   4191274.22      480.43201  (12011608)               566350.46   4191274.22
485.25969  (13011108)
        566370.46   4191274.22      534.46015  (13011108)               566390.46   4191274.22
543.89144  (13011108)
        566410.46   4191274.22      493.96538  (13011108)               566430.46   4191274.22
424.73725  (10121508)
        566450.46   4191274.22      438.61170  (10121508)               566470.46   4191274.22
419.41785  (10121508)
        566490.46   4191274.22      431.56793  (09121808)               566510.46   4191274.22
428.69389  (09121808)
        566530.46   4191274.22      396.33004  (09121808)               566550.46   4191274.22
340.09642  (09121808)
        566570.46   4191274.22      270.36361  (09121808)               565570.46   4191294.22
173.85838  (12120308)
        565590.46   4191294.22      178.01621  (12120308)               565610.46   4191294.22
180.97594  (13121908)
        565630.46   4191294.22      185.69374  (12121108)               565650.46   4191294.22
191.31692  (12121108)
        565670.46   4191294.22      195.47222  (12121108)               565690.46   4191294.22
197.87384  (12121108)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 286
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                    L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                    L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                    L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
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L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565710.46	4191294.22	198.35731	(12121108)	565730.46	4191294.22	196.90750	(12121108)
565750.46	4191294.22	193.30349	(12121108)	565770.46	4191294.22	204.08204	(13122708)
565790.46	4191294.22	217.33858	(13122708)	565810.46	4191294.22	228.71273	(13122708)
565830.46	4191294.22	237.72290	(13122708)	565850.46	4191294.22	243.40989	(13122708)
565870.46	4191294.22	245.73056	(13122708)	565890.46	4191294.22	256.30256	(11120608)
565910.46	4191294.22	262.87501	(11120608)	565930.46	4191294.22	265.10812	(11120608)
565950.46	4191294.22	262.35808	(11120608)	565970.46	4191294.22	254.30033	(11120608)
565990.46	4191294.22	241.47922	(11120608)	566010.46	4191294.22	226.82429	(10122208)
566030.46	4191294.22	223.80170	(10122208)	566050.46	4191294.22	219.01096	(10122208)
566070.46	4191294.22	211.39665	(10122208)	566090.46	4191294.22	200.58870	(10122208)
566110.46	4191294.22	187.32502	(10122208)	566130.46	4191294.22	172.35033	(10122208)
566150.46	4191294.22	197.13539	(12011608)	566170.46	4191294.22	224.21562	(12011608)
566190.46	4191294.22	249.25068	(12011608)	566210.46	4191294.22	271.79477	(12011608)
566230.46	4191294.22	289.91523	(12011608)	566250.46	4191294.22	398.46663	(12011608)
566270.46	4191294.22	659.49031	(12011608)	566290.46	4191294.22	687.00353	(12011608)
566310.46	4191294.22	605.61715	(12011608)	566330.46	4191294.22	490.32051	(12011608)
566350.46	4191294.22	518.71488	(13011108)	566370.46	4191294.22	551.33572	(13011108)
566390.46	4191294.22	542.32242	(13011108)	566410.46	4191294.22	474.17235	(13011108)
566430.46	4191294.22	443.70706	(10121508)	566450.46	4191294.22	444.00637	(10121508)
566470.46	4191294.22	434.64433	(09121808)	566490.46	4191294.22	445.63923	(09121808)
566510.46	4191294.22	425.94068	(09121808)	566530.46	4191294.22	377.78406	(09121808)
566550.46	4191294.22	310.07838	(09121808)	566570.46	4191294.22	235.29140	(09121808)
565570.46	4191314.22	176.73365	(12120308)	565590.46	4191314.22	182.44735	(12120308)
565610.46	4191314.22	186.88047	(12120308)	565630.46	4191314.22	190.27787	(13121908)
565650.46	4191314.22	195.60488	(12121108)	565670.46	4191314.22	201.60923	(12121108)

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       565690.46   4191314.22      205.90971  (12121108)               565710.46   4191314.22
208.27758  (12121108)
       565730.46   4191314.22      208.72752  (12121108)               565750.46   4191314.22
206.85809  (12121108)
       565770.46   4191314.22      203.84589  (13122708)               565790.46   4191314.22
219.23038  (13122708)
       565810.46   4191314.22      232.93589  (13122708)               565830.46   4191314.22
244.58118  (13122708)
       565850.46   4191314.22      253.15050  (13122708)               565870.46   4191314.22
258.21401  (13122708)
       565890.46   4191314.22      264.90833  (11120608)               565910.46   4191314.22
274.51784  (11120608)
       565930.46   4191314.22      279.91704  (11120608)               565950.46   4191314.22
279.58850  (11120608)
       565970.46   4191314.22      273.18237  (11120608)               565990.46   4191314.22
261.18913  (11120608)
       566010.46   4191314.22      244.59932  (11120608)               566030.46   4191314.22
237.73100  (10122208)
       566050.46   4191314.22      232.51869  (10122208)               566070.46   4191314.22
225.01417  (10122208)
       566090.46   4191314.22      214.47008  (10122208)               566110.46   4191314.22
201.03124  (10122208)
       566130.46   4191314.22      185.39107  (10122208)               566150.46   4191314.22
208.96495  (12011608)
       566170.46   4191314.22      238.23850  (12011608)               566190.46   4191314.22
264.85251  (12011608)
       566210.46   4191314.22      288.34060  (12011608)               566230.46   4191314.22
306.83410  (12011608)
       566250.46   4191314.22      419.10361  (12011608)               566270.46   4191314.22
687.77653  (12011608)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***       07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***       10:56:55

               PAGE 287
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD (M)
CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
       566290.46   4191314.22      718.11508  (12011608)               566310.46   4191314.22
636.36164  (12011608)
       566330.46   4191314.22      545.00422  (13011108)               566350.46   4191314.22
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554.63039 (13011108)
        566370.46   4191314.22   561.41174 (13011108)   566390.46   4191314.22
532.21230 (13011108)
        566410.46   4191314.22   448.89083 (13011108)   566430.46   4191314.22
454.03909 (10121508)
        566450.46   4191314.22   441.60468 (10121508)   566470.46   4191314.22
457.22841 (09121808)
        566490.46   4191314.22   451.05393 (09121808)   566510.46   4191314.22
413.86444 (09121808)
        566530.46   4191314.22   351.26632 (09121808)   566550.46   4191314.22
275.33558 (09121808)
        566570.46   4191314.22   199.09834 (09121808)   565570.46   4191334.22
179.61255 (12120708)
        565590.46   4191334.22   185.37707 (12120308)   565610.46   4191334.22
191.71027 (12120308)
        565630.46   4191334.22   196.80710 (12120308)   565650.46   4191334.22
200.53783 (13121908)
        565670.46   4191334.22   206.35517 (12121108)   565690.46   4191334.22
212.71521 (12121108)
        565710.46   4191334.22   217.25375 (12121108)   565730.46   4191334.22
219.89652 (12121108)
        565750.46   4191334.22   220.08166 (12121108)   565770.46   4191334.22
217.74714 (12121108)
        565790.46   4191334.22   219.88276 (13122708)   565810.46   4191334.22
235.98257 (13122708)
        565830.46   4191334.22   250.30678 (13122708)   565850.46   4191334.22
262.14325 (13122708)
        565870.46   4191334.22   270.31145 (13122708)   565890.46   4191334.22
274.05291 (13122708)
        565910.46   4191334.22   285.78561 (11120608)   565930.46   4191334.22
294.86579 (11120608)
        565950.46   4191334.22   297.34088 (11120608)   565970.46   4191334.22
293.23997 (11120608)
        565990.46   4191334.22   282.86658 (11120608)   566010.46   4191334.22
266.87461 (11120608)
        566030.46   4191334.22   253.46626 (10122208)   566050.46   4191334.22
247.65342 (10122208)
        566070.46   4191334.22   240.07283 (10122208)   566090.46   4191334.22
229.81041 (10122208)
        566110.46   4191334.22   216.18861 (10122208)   566130.46   4191334.22
199.54098 (10122208)
        566150.46   4191334.22   221.49303 (12011608)   566170.46   4191334.22
253.53040 (12011608)
        566190.46   4191334.22   282.07911 (12011608)   566210.46   4191334.22
306.57587 (12011608)
        566230.46   4191334.22   325.22967 (12011608)   566250.46   4191334.22
387.21911 (12011608)
        566270.46   4191334.22   698.76144 (12011608)   566290.46   4191334.22
753.14961 (12011608)
        566310.46   4191334.22   684.03964 (12011608)   566330.46   4191334.22
631.68627 (13011108)
        566350.46   4191334.22   610.20567 (13011108)   566370.46   4191334.22
573.53421 (13011108)
        566390.46   4191334.22   514.91342 (13011108)   566410.46   4191334.22
445.79012 (10121508)
        566430.46   4191334.22   456.10257 (10121508)   566450.46   4191334.22
458.74512 (09121808)
        566470.46   4191334.22   472.40727 (09121808)   566490.46   4191334.22
447.74103 (09121808)
        566510.46   4191334.22   392.88380 (09121808)   566530.46   4191334.22
318.24446 (09121808)

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       566550.46   4191334.22      237.78942  (09121808)               566570.46   4191334.22
183.70423  (09020908)
       565570.46   4191354.22      185.19648  (12120708)               565590.46   4191354.22
189.02708  (12120708)
       565610.46   4191354.22      194.63982  (12120308)               565630.46   4191354.22
201.73405  (12120308)
       565650.46   4191354.22      207.37359  (12120308)               565670.46   4191354.22
211.41746  (13121908)
       565690.46   4191354.22      217.89614  (12121108)               565710.46   4191354.22
224.96844  (12121108)
       565730.46   4191354.22      230.02738  (12121108)               565750.46   4191354.22
232.57476  (12121108)
       565770.46   4191354.22      232.54450  (12121108)               565790.46   4191354.22
229.72188  (12121108)
       565810.46   4191354.22      237.64448  (13122708)               565830.46   4191354.22
254.76539  (13122708)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD (M)
CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
       565850.46   4191354.22      269.93870  (13122708)               565870.46   4191354.22
281.84799  (13122708)
       565890.46   4191354.22      289.11822  (13122708)               565910.46   4191354.22
296.49566  (11120608)
       565930.46   4191354.22      309.13439  (11120608)               565950.46   4191354.22
315.32501  (11120608)
       565970.46   4191354.22      314.46543  (11120608)               565990.46   4191354.22
306.46974  (11120608)
       566010.46   4191354.22      291.87991  (11120608)               566030.46   4191354.22
271.65666  (10122208)
       566050.46   4191354.22      267.39547  (10122208)               566070.46   4191354.22
258.94593  (10122208)
       566090.46   4191354.22      247.88884  (10122208)               566110.46   4191354.22
234.32207  (10122208)
       566130.46   4191354.22      217.40185  (10122208)               566150.46   4191354.22
236.07011  (12011608)
       566170.46   4191354.22      268.72940  (12011608)               566190.46   4191354.22
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299.87715 (12011608)
        566210.46   4191354.22   326.37745 (12011608)   566230.46   4191354.22
345.21187 (12011608)
        566250.46   4191354.22   502.52927 (12011608)   566270.46   4191354.22
718.61481 (12011608)
        566290.46   4191354.22   778.69529 (12011608)   566310.46   4191354.22
725.00310 (12011608)
        566330.46   4191354.22   714.13025 (13011108)   566350.46   4191354.22
662.10047 (13011108)
        566370.46   4191354.22   589.94922 (13011108)   566390.46   4191354.22
500.90797 (13011108)
        566410.46   4191354.22   460.58526 (10121508)   566430.46   4191354.22
457.42447 (10121508)
        566450.46   4191354.22   481.61832 (09121808)   566470.46   4191354.22
477.58566 (09121808)
        566490.46   4191354.22   433.71181 (09121808)   566510.46   4191354.22
363.31820 (09121808)
        566530.46   4191354.22   280.54330 (09121808)   566550.46   4191354.22
199.25496 (09121808)
        566570.46   4191354.22   178.08923 (13011008)   565570.46   4191374.22
189.27622 (12120708)
        565590.46   4191374.22   194.83563 (12120708)   565610.46   4191374.22
199.24974 (12120708)
        565630.46   4191374.22   204.83644 (12120308)   565650.46   4191374.22
212.70473 (12120308)
        565670.46   4191374.22   219.01682 (12120308)   565690.46   4191374.22
223.59977 (13121908)
        565710.46   4191374.22   231.01244 (12121108)   565730.46   4191374.22
238.68756 (12121108)
        565750.46   4191374.22   243.96055 (12121108)   565770.46   4191374.22
246.63919 (12121108)
        565790.46   4191374.22   246.36182 (12121108)   565810.46   4191374.22
242.92224 (12121108)
        565830.46   4191374.22   257.77290 (13122708)   565850.46   4191374.22
276.46004 (13122708)
        565870.46   4191374.22   292.25958 (13122708)   565890.46   4191374.22
303.50946 (13122708)
        565910.46   4191374.22   309.26845 (13122708)   565930.46   4191374.22
323.16200 (11120608)
        565950.46   4191374.22   333.75460 (11120608)   565970.46   4191374.22
336.84918 (11120608)
        565990.46   4191374.22   332.27061 (11120608)   566010.46   4191374.22
320.02010 (11120608)
        566030.46   4191374.22   300.61601 (11120608)   566050.46   4191374.22
290.03598 (10122208)
        566070.46   4191374.22   282.18665 (10122208)   566090.46   4191374.22
272.10040 (10122208)
        566110.46   4191374.22   259.12175 (10122208)   566130.46   4191374.22
240.89636 (10122208)
        566150.46   4191374.22   254.98727 (12011608)   566170.46   4191374.22
288.28705 (12011608)
        566190.46   4191374.22   320.18571 (12011608)   566210.46   4191374.22
347.92243 (12011608)
        566230.46   4191374.22   367.20317 (12011608)   566250.46   4191374.22
574.90468 (12011608)
        566270.46   4191374.22   747.83432 (12011608)   566290.46   4191374.22
801.04496 (12011608)
        566310.46   4191374.22   791.06637 (13011108)   566330.46   4191374.22
786.57313 (13011108)
        566350.46   4191374.22   711.14203 (13011108)   566370.46   4191374.22
606.36373 (13011108)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566430.46	4191374.22	477.10952	(09121808)	566450.46	4191374.22	493.28705	(09121808)
566470.46	4191374.22	470.27471	(09121808)	566490.46	4191374.22	409.02072	(09121808)
566510.46	4191374.22	326.90177	(09121808)	566530.46	4191374.22	240.28142	(09121808)
566550.46	4191374.22	189.01258	(09020908)	566570.46	4191374.22	216.83277	(13011008)
565570.46	4191394.22	192.22695	(11020308)	565590.46	4191394.22	198.91166	(12120708)
565610.46	4191394.22	205.26492	(12120708)	565630.46	4191394.22	210.51184	(12120708)
565650.46	4191394.22	216.04663	(12120308)	565670.46	4191394.22	224.95526	(12120308)
565690.46	4191394.22	232.19367	(12120308)	565710.46	4191394.22	237.36576	(13121908)
565730.46	4191394.22	245.49743	(12121108)	565750.46	4191394.22	253.85091	(12121108)
565770.46	4191394.22	259.55470	(12121108)	565790.46	4191394.22	262.26590	(12121108)
565810.46	4191394.22	261.78046	(12121108)	565830.46	4191394.22	259.07461	(13122708)
565850.46	4191394.22	281.35853	(13122708)	565870.46	4191394.22	301.24097	(13122708)
565890.46	4191394.22	316.85051	(13122708)	565910.46	4191394.22	327.00241	(13122708)
565930.46	4191394.22	336.70279	(11120608)	565950.46	4191394.22	352.42392	(11120608)
565970.46	4191394.22	360.26411	(11120608)	565990.46	4191394.22	360.29827	(11120608)
566010.46	4191394.22	351.71456	(11120608)	566030.46	4191394.22		

334.02400 (11120608)
        566050.46   4191394.22   316.01619 (10122208)   566070.46   4191394.22
310.98447 (10122208)
        566090.46   4191394.22   304.00393 (10122208)   566110.46   4191394.22
291.03676 (10122208)
        566130.46   4191394.22   268.49257 (10122208)   566150.46   4191394.22
276.13173 (12011608)
        566170.46   4191394.22   311.75636 (12011608)   566190.46   4191394.22
343.39519 (12011608)
        566210.46   4191394.22   371.50600 (12011608)   566230.46   4191394.22
391.58949 (12011608)
        566250.46   4191394.22   633.78874 (12011608)   566270.46   4191394.22
794.76609 (12011608)
        566290.46   4191394.22   831.63623 (12011608)   566310.46   4191394.22
850.46443 (13011108)
        566330.46   4191394.22   840.51349 (13011108)   566350.46   4191394.22
751.64536 (13011108)
        566370.46   4191394.22   621.71359 (13011108)   566390.46   4191394.22
514.64584 (10121508)
        566410.46   4191394.22   478.99813 (10121508)   566430.46   4191394.22
490.70018 (09121808)
        566450.46   4191394.22   488.38889 (09121808)   566470.46   4191394.22
448.92120 (09121808)
        566490.46   4191394.22   374.90186 (09121808)   566510.46   4191394.22
286.49015 (09121808)
        566530.46   4191394.22   204.30289 (09020908)   566550.46   4191394.22
225.63479 (13011008)
        566570.46   4191394.22   257.48388 (13011008)   565570.46   4191414.22
194.90219 (12123108)
        565590.46   4191414.22   202.04295 (11020308)   565610.46   4191414.22
209.37166 (12120708)
        565630.46   4191414.22   216.86955 (12120708)   565650.46   4191414.22
223.17464 (12120708)
        565670.46   4191414.22   228.80208 (12120308)   565690.46   4191414.22
238.86906 (12120308)
        565710.46   4191414.22   246.92252 (12120308)   565730.46   4191414.22
252.66644 (12120308)
        565750.46   4191414.22   261.86347 (12121108)   565770.46   4191414.22
270.88446 (12121108)
        565790.46   4191414.22   276.90251 (12121108)   565810.46   4191414.22
279.86201 (12121108)
        565830.46   4191414.22   279.30719 (12121108)   565850.46   4191414.22
284.17628 (13122708)
        565870.46   4191414.22   308.25863 (13122708)   565890.46   4191414.22
328.68246 (13122708)
        565910.46   4191414.22   343.86224 (13122708)   565930.46   4191414.22
353.83313 (13122708)
        565950.46   4191414.22   370.48477 (11120608)   565970.46   4191414.22
383.88912 (11120608)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,

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                L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)  Y-COORD (M)
CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
        565990.46   4191414.22      389.31041  (11120608)               566010.46   4191414.22
385.82218  (11120608)
        566030.46   4191414.22      372.44390  (11120608)               566050.46   4191414.22
350.39742  (11120608)
        566070.46   4191414.22      347.18490  (10122208)               566090.46   4191414.22
340.14003  (10122208)
        566110.46   4191414.22      321.82924  (10122208)               566130.46   4191414.22
292.55139  (10122208)
        566150.46   4191414.22      363.09439  (12011608)               566170.46   4191414.22
427.27615  (12011608)
        566190.46   4191414.22      375.33725  (12011608)               566210.46   4191414.22
397.90784  (12011608)
        566230.46   4191414.22      449.20629  (12011608)               566250.46   4191414.22
725.92010  (12011608)
        566270.46   4191414.22      853.32848  (12011608)               566290.46   4191414.22
864.94770  (12011608)
        566310.46   4191414.22      905.50707  (13011108)               566330.46   4191414.22
878.61841  (13011108)
        566350.46   4191414.22      760.41058  (13011108)               566370.46   4191414.22
597.26366  (13011108)
        566390.46   4191414.22      528.88109  (10121508)               566410.46   4191414.22
507.43518  (09121808)
        566430.46   4191414.22      504.34518  (09121808)               566450.46   4191414.22
478.41995  (09121808)
        566470.46   4191414.22      420.79395  (09121808)               566490.46   4191414.22
336.35227  (09121808)
        566510.46   4191414.22      244.36285  (09121808)               566530.46   4191414.22
235.05138  (13011008)
        566550.46   4191414.22      267.88270  (13011008)               566570.46   4191414.22
296.54490  (13011008)
        565570.46   4191434.22      199.90558  (12123108)               565590.46   4191434.22
205.80830  (12123108)
        565610.46   4191434.22      212.75175  (11020308)               565630.46   4191434.22
221.07103  (11020308)
        565650.46   4191434.22      229.84387  (12120708)               565670.46   4191434.22
237.40829  (12120708)
        565690.46   4191434.22      243.29714  (12120708)               565710.46   4191434.22
254.12441  (12120308)
        565730.46   4191434.22      263.15500  (12120308)               565750.46   4191434.22
269.87229  (12120308)
        565770.46   4191434.22      279.96513  (12121108)               565790.46   4191434.22
289.78513  (12121108)
        565810.46   4191434.22      296.73914  (12121108)               565830.46   4191434.22
300.14069  (12121108)
        565850.46   4191434.22      299.47731  (12121108)               565870.46   4191434.22
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313.18667 (13122708)
        565890.46   4191434.22   338.72249 (13122708)   565910.46   4191434.22
359.44025 (13122708)
        565930.46   4191434.22   375.23166 (13122708)   565950.46   4191434.22
387.79550 (11120608)
        565970.46   4191434.22   407.91177 (11120608)   565990.46   4191434.22
420.33210 (11120608)
        566010.46   4191434.22   423.84601 (11120608)   566030.46   4191434.22
416.75352 (11120608)
        566050.46   4191434.22   398.16780 (11120608)   566070.46   4191434.22
385.66039 (10122208)
        566090.46   4191434.22   374.90785 (10122208)   566110.46   4191434.22
353.29342 (10122208)
        566130.46   4191434.22   427.88849 (10121309)   566150.46   4191434.22
461.30270 (13112908)
        566170.46   4191434.22   515.00404 (13112908)   566190.46   4191434.22
635.04944 (12011608)
        566210.46   4191434.22   749.87739 (12011608)   566230.46   4191434.22
820.54424 (12011608)
        566250.46   4191434.22   898.25430 (12011608)   566270.46   4191434.22
940.99397 (12011608)
        566290.46   4191434.22   889.77369 (13011108)   566310.46   4191434.22
917.78083 (13011108)
        566330.46   4191434.22   864.35856 (13011108)   566350.46   4191434.22
724.46737 (13011108)
        566370.46   4191434.22   566.22968 (10121508)   566390.46   4191434.22
529.73271 (10121508)
        566410.46   4191434.22   532.56941 (09121808)   566430.46   4191434.22
513.28321 (09121808)
        566450.46   4191434.22   463.69647 (09121808)   566470.46   4191434.22
387.30848 (09121808)
        566490.46   4191434.22   293.95075 (09121808)   566510.46   4191434.22
244.90132 (13011008)
        566530.46   4191434.22   279.30095 (13011008)   566550.46   4191434.22
308.56157 (13011008)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

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 - - -
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270.10243 (12120708)
        565730.46   4191474.22   278.23403 (12120708)   565750.46   4191474.22
289.79603 (12120308)
        565770.46   4191474.22   301.75447 (12120308)   565790.46   4191474.22
310.82945 (12120308)
        565810.46   4191474.22   324.46711 (12121108)   565830.46   4191474.22
337.02598 (12121108)
        565850.46   4191474.22   346.82250 (12121108)   565870.46   4191474.22
351.60138 (12121108)
        565890.46   4191474.22   351.15992 (13122708)   565910.46   4191474.22
383.71294 (13122708)
        565930.46   4191474.22   413.82412 (13122708)   565950.46   4191474.22
438.51444 (13122708)
        565970.46   4191474.22   455.80112 (11120608)   565990.46   4191474.22
489.12999 (11120608)
        566010.46   4191474.22   512.67131 (11120608)   566030.46   4191474.22
518.72694 (11120608)
        566050.46   4191474.22   503.55870 (11120608)   566070.46   4191474.22
465.20453 (11120608)
        566090.46   4191474.22   682.86758 (10122208)   566110.46   4191474.22
648.48071 (10122208)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - -
        566130.46   4191474.22   498.36410 (10121309)   566150.46   4191474.22
454.13307 (12011609)
        566170.46   4191474.22   458.91271 (09022708)   566190.46   4191474.22
491.63603 (09022708)
        566210.46   4191474.22   578.19993 (12011608)   566230.46   4191474.22
703.86563 (12011608)
        566250.46   4191474.22   779.85620 (12011608)   566270.46   4191474.22
757.60796 (12011608)
        566290.46   4191474.22   740.14934 (13011108)   566310.46   4191474.22
781.02819 (13011108)
        566330.46   4191474.22   736.51976 (13011108)   566350.46   4191474.22
618.08319 (13011108)

566370.46 4191474.22 588.85189 (10121508) 566390.46 4191474.22
604.82279 (09121808)
566410.46 4191474.22 581.98811 (09121808) 566430.46 4191474.22
511.10564 (09121808)
566450.46 4191474.22 406.84278 (09121808) 566470.46 4191474.22
293.41959 (09121808)
566490.46 4191474.22 307.29807 (13011008) 566510.46 4191474.22
343.41749 (13011008)
566530.46 4191474.22 369.32207 (13011008) 566550.46 4191474.22
381.70949 (13011008)
566570.46 4191474.22 379.91723 (13011008) 565570.46 4191494.22
200.68239 (12123108)
565590.46 4191494.22 212.37224 (12123108) 565610.46 4191494.22
224.19163 (12123108)
565630.46 4191494.22 235.24544 (12123108) 565650.46 4191494.22
245.69445 (12123108)
565670.46 4191494.22 254.96783 (12123108) 565690.46 4191494.22
264.89224 (11020308)
565710.46 4191494.22 277.06870 (12120708) 565730.46 4191494.22
289.26606 (12120708)
565750.46 4191494.22 299.09961 (12120708) 565770.46 4191494.22
311.15733 (12120308)
565790.46 4191494.22 325.41293 (12120308) 565810.46 4191494.22
336.76218 (12120308)
565830.46 4191494.22 351.77131 (12121108) 565850.46 4191494.22
368.05115 (12121108)
565870.46 4191494.22 378.90029 (12121108) 565890.46 4191494.22
382.40601 (12121108)
565910.46 4191494.22 391.75921 (13122708) 565930.46 4191494.22
430.34732 (13122708)
565950.46 4191494.22 464.72634 (13122708) 565970.46 4191494.22
490.99246 (13122708)
565990.46 4191494.22 525.27170 (11120608) 566010.46 4191494.22
559.22758 (11120608)
566030.46 4191494.22 570.80650 (11120608) 566050.46 4191494.22
557.12730 (11120608)
566070.46 4191494.22 644.74256 (10122208) 566090.46 4191494.22
830.26934 (10122208)
566110.46 4191494.22 680.90760 (10122208) 566130.46 4191494.22
484.53811 (10121309)
566150.46 4191494.22 434.60626 (10121309) 566170.46 4191494.22
437.01244 (09022708)
566190.46 4191494.22 481.63201 (13112908) 566210.46 4191494.22
590.99276 (12011608)
566230.46 4191494.22 729.60472 (12011608) 566250.46 4191494.22
804.51265 (12011608)
566270.46 4191494.22 791.02637 (12011608) 566290.46 4191494.22
809.98991 (13011108)
566310.46 4191494.22 828.83456 (13011108) 566330.46 4191494.22
747.27153 (13011108)
566350.46 4191494.22 650.12346 (10121508) 566370.46 4191494.22
640.38106 (09121808)
566390.46 4191494.22 637.71668 (09121808) 566410.46 4191494.22
581.41546 (09121808)
566430.46 4191494.22 477.29796 (09121808) 566450.46 4191494.22
351.65679 (09121808)
566470.46 4191494.22 323.15839 (13011008) 566490.46 4191494.22
364.18094 (13011008)
566510.46 4191494.22 394.71251 (13011008) 566530.46 4191494.22
410.09307 (13011008)
566550.46 4191494.22 408.10443 (13011008) 566570.46 4191494.22

390.00036 (13011008)
        565570.46   4191514.22   195.91247 (12123108)   565590.46   4191514.22
209.37316 (12123108)
        565610.46   4191514.22   222.79960 (12123108)   565630.46   4191514.22
235.96245 (12123108)
        565650.46   4191514.22   249.01602 (12123108)   565670.46   4191514.22
261.33361 (12123108)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - - -
        565690.46   4191514.22   272.53183 (12123108)   565710.46   4191514.22
282.66925 (11020308)
        565730.46   4191514.22   296.80611 (11020308)   565750.46   4191514.22
310.86125 (12120708)
        565770.46   4191514.22   322.76324 (12120708)   565790.46   4191514.22
335.99235 (12120308)
        565810.46   4191514.22   353.31044 (12120308)   565830.46   4191514.22
365.90524 (12120308)
        565850.46   4191514.22   385.65507 (12121108)   565870.46   4191514.22
403.46117 (12121108)
        565890.46   4191514.22   414.47334 (12121108)   565910.46   4191514.22
419.18331 (12121108)
        565930.46   4191514.22   445.81849 (13122708)   565950.46   4191514.22
490.06241 (13122708)
        565970.46   4191514.22   529.56707 (13122708)   565990.46   4191514.22
560.08962 (13122708)
        566010.46   4191514.22   603.16555 (11120608)   566030.46   4191514.22
622.56958 (11120608)
        566050.46   4191514.22   612.94985 (11120608)   566070.46   4191514.22
884.80465 (10122208)
        566090.46   4191514.22   911.78620 (10122208)   566110.46   4191514.22
676.91352 (10122208)
        566130.46   4191514.22   460.35492 (10121309)   566150.46   4191514.22
427.09336 (10121309)
        566170.46   4191514.22   445.65957 (13112908)   566190.46   4191514.22
519.43302 (13112908)

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        566210.46   4191514.22      640.93549  (12011608)              566230.46   4191514.22
796.12515  (12011608)
        566250.46   4191514.22      868.26176  (12011608)              566270.46   4191514.22
826.89327  (12011608)
        566290.46   4191514.22      872.06803  (13011108)              566310.46   4191514.22
857.03077  (13011108)
        566330.46   4191514.22      737.67454  (13011108)              566350.46   4191514.22
693.51474  (10121508)
        566370.46   4191514.22      694.86558  (09121808)              566390.46   4191514.22
650.60409  (09121808)
        566410.46   4191514.22      554.26568  (09121808)              566430.46   4191514.22
422.74896  (09121808)
        566450.46   4191514.22      339.69196  (13011008)              566470.46   4191514.22
387.48421  (13011008)
        566490.46   4191514.22      422.25627  (13011008)              566510.46   4191514.22
440.73530  (13011008)
        566530.46   4191514.22      440.09508  (13011008)              566550.46   4191514.22
420.00700  (13011008)
        566570.46   4191514.22      384.08319  (13011008)              565570.46   4191534.22
194.45530  (12011708)
        565590.46   4191534.22      202.84981  (12123108)              565610.46   4191534.22
217.69775  (12123108)
        565630.46   4191534.22      232.95143  (12123108)              565650.46   4191534.22
248.28152  (12123108)
        565670.46   4191534.22      263.36571  (12123108)              565690.46   4191534.22
277.95580  (12123108)
        565710.46   4191534.22      291.85858  (12123108)              565730.46   4191534.22
304.19093  (12123108)
        565750.46   4191534.22      318.76133  (11020308)              565770.46   4191534.22
334.83767  (12120708)
        565790.46   4191534.22      349.68420  (12120708)              565810.46   4191534.22
364.27382  (12120308)
        565830.46   4191534.22      384.22392  (12120308)              565850.46   4191534.22
401.72158  (12120308)
        565870.46   4191534.22      423.70075  (12121108)              565890.46   4191534.22
443.82616  (12121108)
        565910.46   4191534.22      458.57972  (12121108)              565930.46   4191534.22
468.33650  (12121108)
        565950.46   4191534.22      511.53879  (13122708)              565970.46   4191534.22
562.03330  (13122708)
        565990.46   4191534.22      604.37611  (13122708)              566010.46   4191534.22
644.40530  (11120608)
        566030.46   4191534.22      676.64397  (11120608)              566050.46   4191534.22
717.84420  (11120608)
        566070.46   4191534.22     1075.26075  (11120608)              566090.46   4191534.22
939.05465  (10122208)
        566110.46   4191534.22      668.85035  (10122208)              566130.46   4191534.22
455.13736  (10121309)
        566150.46   4191534.22      446.57213  (10121309)              566170.46   4191534.22
477.66182  (13112908)
        566190.46   4191534.22      564.48221  (13112908)              566210.46   4191534.22
700.67417  (12011608)
        566230.46   4191534.22      863.53968  (12011608)              566250.46   4191534.22
920.00043  (12011608)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
      ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 294
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
566270.46	4191534.22	864.26918	(13011108)	566290.46	4191534.22	922.62851	(13011108)
566310.46	4191534.22	867.96718	(13011108)	566330.46	4191534.22	759.44670	(10121508)
566350.46	4191534.22	744.86745	(09121808)	566370.46	4191534.22	724.15664	(09121808)
566390.46	4191534.22	638.25356	(09121808)	566410.46	4191534.22	505.36053	(09121808)
566430.46	4191534.22	357.58535	(13011008)	566450.46	4191534.22	411.69716	(13011008)
566470.46	4191534.22	452.55213	(13011008)	566490.46	4191534.22	473.67583	(13011008)
566510.46	4191534.22	472.48929	(13011008)	566530.46	4191534.22	449.60674	(13011008)
566550.46	4191534.22	408.65213	(13011008)	566570.46	4191534.22	356.02677	(13011008)
565570.46	4191554.22	199.41773	(12010508)	565590.46	4191554.22	205.39560	(12010508)
565610.46	4191554.22	213.70960	(12011708)	565630.46	4191554.22	226.12265	(12123108)
565650.46	4191554.22	243.33125	(12123108)	565670.46	4191554.22	260.97846	(12123108)
565690.46	4191554.22	278.85082	(12123108)	565710.46	4191554.22	296.46365	(12123108)
565730.46	4191554.22	313.26922	(12123108)	565750.46	4191554.22	328.13500	(12123108)
565770.46	4191554.22	343.36209	(11020308)	565790.46	4191554.22	362.38030	(12120708)
565810.46	4191554.22	380.71545	(12120708)	565830.46	4191554.22	396.75068	(12120308)
565850.46	4191554.22	422.03273	(12120308)	565870.46	4191554.22	442.41202	(12120308)
565890.46	4191554.22	469.08172	(12121108)	565910.46	4191554.22	495.57237	(12121108)
565930.46	4191554.22	517.40986	(12121108)	565950.46	4191554.22	527.24475	(13122708)
565970.46	4191554.22	588.60636	(13122708)	565990.46	4191554.22	645.52159	(13122708)
566010.46	4191554.22	687.89897	(13122708)	566030.46	4191554.22	730.03359	(11120608)

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565830.46	4191574.22	415.89503	(12120708)	565850.46	4191574.22	435.84054	(12120708)
565870.46	4191574.22	465.92219	(12120308)	565890.46	4191574.22	493.00530	(12120308)
565910.46	4191574.22	528.36926	(12121108)	565930.46	4191574.22	562.46964	(12121108)
565950.46	4191574.22	581.89121	(12121108)	565970.46	4191574.22	606.23168	(13122708)
565990.46	4191574.22	682.82380	(13122708)	566010.46	4191574.22	748.01253	(13122708)
566030.46	4191574.22	786.29230	(11120608)	566050.46	4191574.22	1457.10273	(11120608)
566070.46	4191574.22	1280.77490	(11120608)	566090.46	4191574.22	959.61215	(10122208)
566110.46	4191574.22	791.13202	(10122208)	566130.46	4191574.22	604.10464	(10122208)
566150.46	4191574.22	526.48516	(10121309)	566170.46	4191574.22	552.52173	(13112908)
566190.46	4191574.22	661.45182	(13112908)	566210.46	4191574.22	858.24129	(12011608)
566230.46	4191574.22	1005.88948	(12011608)	566250.46	4191574.22	1003.56049	(12011608)
566270.46	4191574.22	1009.80447	(13011108)	566290.46	4191574.22	983.75230	(13011108)
566310.46	4191574.22	854.81885	(10121508)	566330.46	4191574.22	840.50919	(09121808)
566350.46	4191574.22	810.19431	(09121808)	566370.46	4191574.22	701.20679	(09121808)
566390.46	4191574.22	533.47745	(09121808)	566410.46	4191574.22	468.05978	(13011008)
566430.46	4191574.22	518.70097	(13011008)	566450.46	4191574.22	542.96986	(13011008)
566470.46	4191574.22	538.22069	(13011008)	566490.46	4191574.22	506.81910	(13011008)
566510.46	4191574.22	454.45591	(13011008)	566530.46	4191574.22	417.64601	(12010208)
566550.46	4191574.22	418.08039	(12010208)	566570.46	4191574.22	406.10459	(12010208)
565570.46	4191594.22	206.41480	(12010508)	565590.46	4191594.22	215.62240	(12010508)
565610.46	4191594.22	224.76353	(12010508)	565630.46	4191594.22	233.81537	(12010508)
565650.46	4191594.22	242.82943	(12010508)	565670.46	4191594.22	251.77277	(12010508)
565690.46	4191594.22	265.13056	(12123108)	565710.46	4191594.22	288.52368	(12123108)
565730.46	4191594.22	313.34553	(12123108)	565750.46	4191594.22	338.07064	(12123108)
565770.46	4191594.22	362.37047	(12123108)	565790.46	4191594.22	385.41568	(12123108)
565810.46	4191594.22	406.07601	(12123108)	565830.46	4191594.22	429.60291	(11020308)
565850.46	4191594.22	458.41816	(12120708)	565870.46	4191594.22	486.84327	(12120708)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565890.46	4191594.22	525.18268	(12120308)	565910.46	4191594.22	561.32960	(12120308)
565930.46	4191594.22	602.01261	(12121108)	565950.46	4191594.22	633.22878	(12121108)
565970.46	4191594.22	654.49625	(12121108)	565990.46	4191594.22	716.91994	(13122708)
566010.46	4191594.22	805.28817	(13122708)	566030.46	4191594.22	1136.72328	(13122708)
566050.46	4191594.22	1540.54728	(11120608)	566070.46	4191594.22	1356.22471	(11120608)
566090.46	4191594.22	1007.73356	(10122208)	566110.46	4191594.22	891.73071	(10122208)
566130.46	4191594.22	715.05240	(10122208)	566150.46	4191594.22	574.55696	(10121309)
566170.46	4191594.22	597.29058	(13112908)	566190.46	4191594.22	717.06854	(13112908)
566210.46	4191594.22	952.27158	(12011608)	566230.46	4191594.22	1075.15167	(12011608)
566250.46	4191594.22	1037.95770	(12011608)	566270.46	4191594.22	1064.65078	(13011108)
566290.46	4191594.22	998.83970	(13011108)	566310.46	4191594.22	893.06059	(10121508)
566330.46	4191594.22	884.51159	(09121808)	566350.46	4191594.22	804.43331	(09121808)
566370.46	4191594.22	646.73594	(09121808)	566390.46	4191594.22	501.02278	(13011008)
566410.46	4191594.22	556.81975	(13011008)	566430.46	4191594.22	583.09831	(13011008)
566450.46	4191594.22	577.09651	(13011008)	566470.46	4191594.22	541.07632	(13011008)
566490.46	4191594.22	481.77197	(13011008)	566510.46	4191594.22	453.36966	(12010208)
566530.46	4191594.22	448.34429	(12010208)	566550.46	4191594.22		

429.72402 (12010208)
        566570.46   4191594.22   400.15911 (12010208)   565570.46   4191614.22
212.09908 (13012808)
        565590.46   4191614.22   220.08936 (13012808)   565610.46   4191614.22
228.07771 (13012808)
        565630.46   4191614.22   238.35357 (12010508)   565650.46   4191614.22
249.31206 (12010508)
        565670.46   4191614.22   260.34515 (12010508)   565690.46   4191614.22
271.56815 (12010508)
        565710.46   4191614.22   283.00359 (12010508)   565730.46   4191614.22
304.09901 (12123108)
        565750.46   4191614.22   332.78021 (12123108)   565770.46   4191614.22
362.06336 (12123108)
        565790.46   4191614.22   391.06196 (12123108)   565810.46   4191614.22
418.99478 (12123108)
        565830.46   4191614.22   445.67567 (12123108)   565850.46   4191614.22
475.53811 (11020308)
        565870.46   4191614.22   516.07138 (12120708)   565890.46   4191614.22
556.26661 (12120708)
        565910.46   4191614.22   600.46140 (12120308)   565930.46   4191614.22
637.52915 (12120308)
        565950.46   4191614.22   677.65520 (12121108)   565970.46   4191614.22
722.18897 (12121108)
        565990.46   4191614.22   764.84506 (12121108)   566010.46   4191614.22
856.38339 (13122708)
        566030.46   4191614.22   1430.69687 (13122708)   566050.46   4191614.22
1555.25191 (11120608)
        566070.46   4191614.22   1434.79379 (11120608)   566090.46   4191614.22
1143.94958 (11120608)
        566110.46   4191614.22   1000.29331 (10122208)   566130.46   4191614.22
844.25494 (10122208)
        566150.46   4191614.22   628.49402 (10121309)   566170.46   4191614.22
648.78266 (13112908)
        566190.46   4191614.22   792.37122 (12011608)   566210.46   4191614.22
1054.08938 (12011608)
        566230.46   4191614.22   1141.89507 (12011608)   566250.46   4191614.22
1107.60163 (13011108)
        566270.46   4191614.22   1109.86075 (13011108)   566290.46   4191614.22
1003.06506 (13011108)
        566310.46   4191614.22   949.85428 (09121808)   566330.46   4191614.22
904.47951 (09121808)
        566350.46   4191614.22   769.76118 (09121808)   566370.46   4191614.22
564.34990 (09121808)
        566390.46   4191614.22   600.54001 (13011008)   566410.46   4191614.22
629.39883 (13011008)
        566430.46   4191614.22   621.65895 (13011008)   566450.46   4191614.22
580.07048 (13011008)
        566470.46   4191614.22   512.63247 (13011008)   566490.46   4191614.22
492.98746 (12010208)
        566510.46   4191614.22   481.09233 (12010208)   566530.46   4191614.22
454.44414 (12010208)
        566550.46   4191614.22   416.63375 (12010208)   566570.46   4191614.22
400.08158 (13102408)
        565570.46   4191634.22   215.35493 (13012808)   565590.46   4191634.22
224.67119 (13012808)
        565610.46   4191634.22   234.68272 (13012808)   565630.46   4191634.22
244.42808 (13012808)
        565650.46   4191634.22   253.99614 (13012808)   565670.46   4191634.22
265.37330 (12010508)
        565690.46   4191634.22   279.36641 (12010508)   565710.46   4191634.22
294.21481 (12010508)

565730.46 4191634.22 309.35006 (12010508) 565750.46 4191634.22
324.46129 (12011708)
565770.46 4191634.22 353.60256 (12123108) 565790.46 4191634.22
387.94151 (12123108)
565810.46 4191634.22 423.06856 (12123108) 565830.46 4191634.22
460.21382 (12123108)
565850.46 4191634.22 502.38805 (12123108) 565870.46 4191634.22
543.19741 (12123108)
565890.46 4191634.22 591.82954 (12120708) 565910.46 4191634.22
634.74352 (12120708)
565930.46 4191634.22 674.73437 (12120308) 565950.46 4191634.22
721.39280 (12120308)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 ,
L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,
L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,
L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565970.46	4191634.22	789.96038	(12121108)	565990.46	4191634.22	858.37586	(12121108)
566010.46	4191634.22	897.21629	(13122708)	566030.46	4191634.22	1509.65794	(13122708)
566050.46	4191634.22	1725.15507	(13122708)	566070.46	4191634.22	1580.35041	(11120608)
566090.46	4191634.22	1348.95580	(11120608)	566110.46	4191634.22	1112.70432	(10122208)
566130.46	4191634.22	989.05968	(10122208)	566150.46	4191634.22	719.27693	(10122208)
566170.46	4191634.22	709.00555	(13112908)	566190.46	4191634.22	908.07113	(12011608)
566210.46	4191634.22	1162.09575	(12011608)	566230.46	4191634.22	1208.42955	(12011608)
566250.46	4191634.22	1190.09398	(13011108)	566270.46	4191634.22	1150.17026	(13011108)
566290.46	4191634.22	1017.95835	(10121508)	566310.46	4191634.22	999.59090	(09121808)
566330.46	4191634.22	896.86319	(09121808)	566350.46	4191634.22	702.84070	(09121808)
566370.46	4191634.22	651.77403	(13011008)	566390.46	4191634.22		

683.70851 (13011008)
        565570.46   4191654.22   215.34169 (13012808)   565590.46   4191654.22
226.20916 (13012808)
        565610.46   4191654.22   237.84889 (13012808)   565630.46   4191654.22
249.53484 (13012808)
        565650.46   4191654.22   261.32710 (13012808)   565670.46   4191654.22
273.49716 (13012808)
        565690.46   4191654.22   286.71698 (13012808)   565710.46   4191654.22
300.84758 (12010508)
        565730.46   4191654.22   319.06030 (12010508)   565750.46   4191654.22
338.08038 (12010508)
        565770.46   4191654.22   357.52674 (12010508)   565790.46   4191654.22
377.81936 (12011708)
        565810.46   4191654.22   420.31157 (12123108)   565830.46   4191654.22
467.28828 (12123108)
        566010.46   4191654.22   1005.41518 (12121108)   566030.46   4191654.22
1053.39941 (13122708)
        566050.46   4191654.22   1831.66376 (13122708)   566070.46   4191654.22
1892.81339 (13122708)
        566090.46   4191654.22   1665.21102 (11120608)   566110.46   4191654.22
1303.51330 (11120608)
        566130.46   4191654.22   1144.65295 (10122208)   566150.46   4191654.22
885.84553 (10122208)
        566170.46   4191654.22   781.30972 (09022708)   566190.46   4191654.22
1046.71323 (12011608)
        566210.46   4191654.22   1275.84343 (12011608)   566230.46   4191654.22
1277.90780 (12011608)
        566250.46   4191654.22   1266.32523 (13011108)   566270.46   4191654.22
1185.97486 (13011108)
        566290.46   4191654.22   1089.46067 (09121808)   566310.46   4191654.22
1024.22086 (09121808)
        565570.46   4191674.22   212.42856 (13012808)   565590.46   4191674.22
224.43921 (13012808)
        565610.46   4191674.22   237.18127 (13012808)   565630.46   4191674.22
250.45581 (13012808)
        565650.46   4191674.22   264.24809 (13012808)   565670.46   4191674.22
279.31186 (13012808)
        565690.46   4191674.22   295.06036 (13012808)   565710.46   4191674.22
311.64710 (13012808)
        565730.46   4191674.22   328.86719 (13012808)   566010.46   4191674.22
1095.76835 (12121108)
        566030.46   4191674.22   1160.52729 (12121108)   566050.46   4191674.22
1235.04789 (13122708)
        566070.46   4191674.22   1853.19851 (13122708)   566090.46   4191674.22
2135.00773 (11120608)
        566110.46   4191674.22   1704.37449 (11120608)   566130.46   4191674.22
1336.38776 (10122208)
        566150.46   4191674.22   1082.88010 (10122208)   566170.46   4191674.22
872.16497 (09022708)
        566190.46   4191674.22   1209.38612 (12011608)   566210.46   4191674.22
1396.73443 (12011608)
        566230.46   4191674.22   1363.35133 (13011108)   566250.46   4191674.22
1343.11654 (13011108)
        566270.46   4191674.22   1213.85909 (13011108)   566290.46   4191674.22
1151.09462 (09121808)
        565570.46   4191694.22   212.68678 (10120708)   565590.46   4191694.22
220.09255 (10120708)
        565610.46   4191694.22   232.69027 (13012808)   565630.46   4191694.22
247.13891 (13012808)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   , L0000004   , L0000005   ,
                                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   , L0000012   , L0000013   ,
                                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   , L0000020   , L0000021   ,
                                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

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

252.56876 (10120708)
        565630.46   4191734.22   263.84825 (10120708)   565650.46   4191734.22
276.12689 (10120708)
        565670.46   4191734.22   289.37550 (10120708)   565690.46   4191734.22
303.30423 (10120708)
        565710.46   4191734.22   317.80059 (10120708)   566110.46   4191734.22
2276.25038 (13122708)
        566130.46   4191734.22   2578.72511 (11120608)   566150.46   4191734.22
2734.31792 (11120608)
        566170.46   4191734.22   1689.40269 (10122208)   566190.46   4191734.22
1914.54117 (12011608)
        565570.46   4191754.22   232.98329 (10120708)   565590.46   4191754.22
245.18776 (10120708)
        565610.46   4191754.22   258.25585 (10120708)   565630.46   4191754.22
270.73630 (10120708)
        565650.46   4191754.22   285.60129 (10120708)   565670.46   4191754.22
301.38725 (10120708)
        565690.46   4191754.22   317.53220 (10120708)   565710.46   4191754.22
334.26843 (10120708)
        566130.46   4191754.22   3038.05550 (11120608)   566150.46   4191754.22
3608.73294 (11120608)
        566170.46   4191754.22   2673.22108 (10122208)   566190.46   4191754.22
2449.95734 (12011608)
        565570.46   4191774.22   235.29073 (14010108)   565590.46   4191774.22
247.18620 (14010108)
        565610.46   4191774.22   260.15200 (14010108)   565630.46   4191774.22
272.85189 (14010108)
        565650.46   4191774.22   288.87950 (10120708)   565670.46   4191774.22
306.90282 (10120708)
        565690.46   4191774.22   325.17862 (10120708)   565710.46   4191774.22
343.93024 (10120708)
        566170.46   4191774.22   4349.27475 (12011608)   566190.46   4191774.22
3808.10209 (12011608)
        565570.46   4191794.22   236.05492 (14010108)   565590.46   4191794.22
248.16444 (14010108)
        565610.46   4191794.22   261.80223 (14010108)   565630.46   4191794.22
275.90067 (14010108)
        565650.46   4191794.22   293.26134 (14010108)   565670.46   4191794.22
312.15699 (14010108)
        565690.46   4191794.22   331.29494 (14010108)   565710.46   4191794.22
350.51590 (14010108)
        565570.46   4191814.22   236.73682 (10121608)   565590.46   4191814.22
248.72217 (10121608)
        565610.46   4191814.22   262.15401 (10121608)   565630.46   4191814.22
275.55873 (10121608)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                    L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                    L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,

L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
565650.46	4191814.22	293.14430	(10121608)	565670.46	4191814.22	312.11724	(10121608)
565690.46	4191814.22	331.56275	(14010108)	565710.46	4191814.22	351.66397	(14010108)
565570.46	4191834.22	238.80921	(10121608)	565590.46	4191834.22	251.49175	(10121608)
565610.46	4191834.22	265.47667	(10121608)	565630.46	4191834.22	279.50445	(10121608)
565650.46	4191834.22	297.50218	(10121608)	565670.46	4191834.22	316.98604	(10121608)
565690.46	4191834.22	336.91155	(10121608)	565710.46	4191834.22	357.32927	(10121608)
565570.46	4191854.22	239.57022	(10120108)	565590.46	4191854.22	252.60796	(10120108)
565610.46	4191854.22	266.62333	(10120108)	565630.46	4191854.22	281.06361	(10120108)
565650.46	4191854.22	298.02292	(10120108)	565670.46	4191854.22	316.67167	(10120108)
565690.46	4191854.22	336.87296	(10120108)	565710.46	4191854.22	358.66441	(10120108)
565570.46	4191874.22	237.13919	(10120108)	565590.46	4191874.22	250.12220	(10120108)
565610.46	4191874.22	263.79619	(10120108)	565630.46	4191874.22	278.54394	(10120108)
565650.46	4191874.22	295.33547	(10120108)	565670.46	4191874.22	313.80362	(10120108)
565690.46	4191874.22	333.88149	(10120108)	565710.46	4191874.22	355.50676	(10120108)
565570.46	4191894.22	230.99441	(10120108)	565590.46	4191894.22	243.43992	(10120108)
565610.46	4191894.22	256.53496	(10120108)	565630.46	4191894.22	270.93834	(10120108)
565650.46	4191894.22	286.78746	(10120108)	565670.46	4191894.22	304.26900	(10120108)
565690.46	4191894.22	323.16310	(10120108)	565710.46	4191894.22	343.26095	(10120108)
565570.46	4191914.22	221.36936	(10120108)	565590.46	4191914.22	232.92483	(10120108)
565610.46	4191914.22	245.34219	(10120108)	565630.46	4191914.22	258.83470	(10120108)
565650.46	4191914.22	273.01433	(10120108)	565670.46	4191914.22	288.81187	(10120108)
565690.46	4191914.22	305.65554	(10120108)	565710.46	4191914.22	327.17004	(10112908)
565570.46	4191934.22	216.11313	(10112908)	565590.46	4191934.22	230.48643	(10112908)
565610.46	4191934.22	245.88591	(10112908)	565630.46	4191934.22	262.25797	(10112908)
565650.46	4191934.22	279.58154	(10112908)	565670.46	4191934.22		

298.60958 (10112908)
        565690.46   4191934.22   319.35204 (10112908)   565710.46   4191934.22
341.74729 (10112908)
        565570.46   4191954.22   228.44956 (10112908)   565590.46   4191954.22
243.26149 (10112908)
        565610.46   4191954.22   258.87320 (10112908)   565630.46   4191954.22
274.57235 (10112908)
        565650.46   4191954.22   291.07510 (10112908)   565670.46   4191954.22
308.77599 (10112908)
        565690.46   4191954.22   328.07122 (10112908)   565710.46   4191954.22
350.72578 (13020108)
        565570.46   4191974.22   238.27034 (10112908)   565590.46   4191974.22
253.02269 (10112908)
        565610.46   4191974.22   268.39917 (10112908)   565630.46   4191974.22
283.86527 (13020108)
        565650.46   4191974.22   300.70708 (13020108)   565670.46   4191974.22
318.07395 (13020108)
        565690.46   4191974.22   337.30963 (13020108)   565710.46   4191974.22
359.85698 (13020108)
        565570.46   4191994.22   245.28791 (13020108)   565590.46   4191994.22
261.02021 (13020108)
        565610.46   4191994.22   277.67692 (13020108)   565630.46   4191994.22
293.83371 (13020108)
        565650.46   4191994.22   309.51046 (13020108)   565670.46   4191994.22
325.96047 (13020108)
        565690.46   4191994.22   343.94918 (13020108)   565710.46   4191994.22
364.46636 (13020108)
        565570.46   4192014.22   249.97417 (13020108)   565590.46   4192014.22
264.74981 (13020108)
        565610.46   4192014.22   281.24298 (13020108)   565630.46   4192014.22
298.26430 (13020108)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - -
        565650.46   4192014.22   312.32152 (13020108)   565670.46   4192014.22
326.90127 (13020108)

565690.46 4192014.22 342.91095 (13020108) 565710.46 4192014.22 361.02363 (13020108)
565570.46 4192034.22 249.02027 (13020108) 565590.46 4192034.22 261.46028 (13020108)
565610.46 4192034.22 277.82600 (13020108) 565630.46 4192034.22 296.49955 (13020108)
565650.46 4192034.22 308.22232 (13020108) 565670.46 4192034.22 319.57636 (13020108)
565690.46 4192034.22 332.50447 (13020108) 565710.46 4192034.22 348.38913 (13020108)
565570.46 4192054.22 245.41897 (13020108) 565590.46 4192054.22 256.02720 (13020108)
565610.46 4192054.22 270.37592 (13020108) 565630.46 4192054.22 286.89062 (13020108)
565650.46 4192054.22 296.90158 (13020108) 565670.46 4192054.22 306.42061 (13020108)
565690.46 4192054.22 317.38327 (13020108) 565570.46 4192074.22 239.34502 (13020108)
565590.46 4192074.22 248.25233 (13020108) 565610.46 4192074.22 259.54335 (13020108)
565630.46 4192074.22 272.10133 (13020108) 565650.46 4192074.22 284.97119 (09021008)
565670.46 4192074.22 306.36920 (09021008) 565690.46 4192074.22 329.87487 (09021008)
565570.46 4192094.22 232.12879 (13020108) 565590.46 4192094.22 239.80250 (13020108)
565610.46 4192094.22 255.26243 (09021008) 565630.46 4192094.22 274.18064 (09021008)
565650.46 4192094.22 293.61139 (09021008) 565570.46 4192114.22 229.93608 (09021008)
565590.46 4192114.22 246.64569 (09021008) 565610.46 4192114.22 262.93926 (09021008)
565630.46 4192114.22 279.61787 (09021008) 565650.46 4192114.22 297.21865 (09021008)
565570.46 4192134.22 235.44231 (09021008) 565590.46 4192134.22 251.07224 (09021008)
565610.46 4192134.22 265.96792 (09021008) 565630.46 4192134.22 280.81261 (09021008)
565570.46 4192154.22 237.43199 (09021008) 565590.46 4192154.22 251.89602 (09021008)
565610.46 4192154.22 265.49436 (09021008) 565630.46 4192154.22 278.21816 (09021008)
565570.46 4192174.22 237.98092 (09021008) 565590.46 4192174.22 250.47528 (09021008)
565610.46 4192174.22 261.69281 (09021008) 565630.46 4192174.22 270.81212 (12122408)
565690.46 4192174.22 709.65399 (12122408) 565710.46 4192174.22 717.29688 (12122408)
565730.46 4192174.22 704.64058 (12122408) 565750.46 4192174.22 694.51953 (12122408)
565770.46 4192174.22 657.61137 (12122408) 565790.46 4192174.22 619.85076 (12122408)
565810.46 4192174.22 646.64388 (11011008) 565570.46 4192194.22 236.26083 (09021008)
565590.46 4192194.22 246.05782 (09021008) 565610.46 4192194.22 260.19144 (12122408)
565630.46 4192194.22 481.51951 (12122408) 565650.46 4192194.22 625.14556 (12122408)
565670.46 4192194.22 686.18915 (12122408) 565690.46 4192194.22 676.15335 (12122408)
565710.46 4192194.22 648.09702 (12122408) 565730.46 4192194.22

631.06800 (12122408)
        565750.46   4192194.22   608.79852 (12122408)   565770.46   4192194.22
574.72814 (12122408)
        565790.46   4192194.22   607.65568 (11011008)   565810.46   4192194.22
672.13108 (11011008)
        565570.46   4192214.22   233.28710 (12122408)   565590.46   4192214.22
249.94646 (12122408)
        565610.46   4192214.22   459.49514 (12122408)   565630.46   4192214.22
616.47584 (12122408)
        565650.46   4192214.22   657.52145 (12122408)   565670.46   4192214.22
632.07861 (12122408)
        565690.46   4192214.22   602.59414 (12122408)   565710.46   4192214.22
582.65929 (12122408)
        565730.46   4192214.22   562.51721 (12122408)   565750.46   4192214.22
529.76439 (12122408)
        565770.46   4192214.22   585.46384 (11011008)   565790.46   4192214.22
640.11273 (11011008)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   ,
L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
L0000028   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
 **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)
CONC   (YYMMDDHH)
 -
- - - - - - - - - - - - - - -
        565810.46   4192214.22   666.47095 (11011008)   565570.46   4192234.22
240.09126 (12122408)
        565590.46   4192234.22   400.42648 (12122408)   565610.46   4192234.22
586.72008 (12122408)
        565630.46   4192234.22   642.35127 (12122408)   565650.46   4192234.22
607.12425 (12122408)
        565670.46   4192234.22   568.82086 (12122408)   565690.46   4192234.22
547.52354 (12122408)
        565710.46   4192234.22   525.34522 (12122408)   565730.46   4192234.22
493.70638 (11011008)
        565750.46   4192234.22   567.33259 (11011008)   565770.46   4192234.22
620.35471 (11011008)
        565790.46   4192234.22   640.46185 (11011008)   565810.46   4192234.22
623.24581 (11011008)
        566610.64   4191596.95   358.04126 (13102408)   566594.96   4191572.56
378.35843 (12010208)

*** THE SUMMARY OF MAXIMUM PERIOD (43872 HRS) RESULTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3   **

GROUP	NETWORK ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
PAREA1	1ST HIGHEST VALUE IS	17.03555	AT (566190.46, 4191774.22, 159.26, 580.55, 0.00)	DC	
	2ND HIGHEST VALUE IS	14.88049	AT (566170.46, 4191774.22, 155.03, 580.55, 0.00)	DC	
	3RD HIGHEST VALUE IS	6.89707	AT (566130.46, 4191754.22, 150.48, 580.55, 0.00)	DC	
	4TH HIGHEST VALUE IS	6.57069	AT (566150.46, 4191754.22, 155.01, 580.55, 0.00)	DC	
	5TH HIGHEST VALUE IS	6.48008	AT (566190.46, 4191754.22, 165.86, 580.55, 0.00)	DC	
	6TH HIGHEST VALUE IS	6.03961	AT (566170.46, 4191754.22, 160.59, 580.55, 0.00)	DC	
	7TH HIGHEST VALUE IS	4.36492	AT (566130.46, 4191734.22, 154.22, 580.55, 0.00)	DC	
	8TH HIGHEST VALUE IS	4.18186	AT (566110.46, 4191734.22, 149.82, 580.55, 0.00)	DC	
	9TH HIGHEST VALUE IS	3.42583	AT (566150.46, 4191734.22, 160.40, 580.55, 0.00)	DC	
	10TH HIGHEST VALUE IS	3.28480	AT (566190.46, 4191734.22, 172.79, 580.55, 0.00)	DC	
SLINE1	1ST HIGHEST VALUE IS	19.79227	AT (566170.46, 4191774.22, 155.03, 580.55, 0.00)	DC	
	2ND HIGHEST VALUE IS	19.20979	AT (566190.46, 4191774.22, 159.26, 580.55, 0.00)	DC	
	3RD HIGHEST VALUE IS	11.15445	AT (566130.46, 4191754.22, 150.48, 580.55, 0.00)	DC	

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          4TH HIGHEST VALUE IS      10.10115 AT (  566150.46,  4191754.22,   155.01,   580.55,
0.00)  DC
          5TH HIGHEST VALUE IS       8.84895 AT (  566170.46,  4191754.22,   160.59,   580.55,
0.00)  DC
          6TH HIGHEST VALUE IS       8.35369 AT (  566190.46,  4191754.22,   165.86,   580.55,
0.00)  DC
          7TH HIGHEST VALUE IS       6.86534 AT (  566110.46,  4191734.22,   149.82,   580.55,
0.00)  DC
          8TH HIGHEST VALUE IS       6.42781 AT (  566130.46,  4191734.22,   154.22,   580.55,
0.00)  DC
          9TH HIGHEST VALUE IS       5.47978 AT (  566150.46,  4191734.22,   160.40,   580.55,
0.00)  DC
         10TH HIGHEST VALUE IS       4.74761 AT (  566170.46,  4191734.22,   166.81,   580.55,
0.00)  DC

ALL       1ST HIGHEST VALUE IS      36.24534 AT (  566190.46,  4191774.22,   159.26,   580.55,
0.00)  DC
          2ND HIGHEST VALUE IS      34.67276 AT (  566170.46,  4191774.22,   155.03,   580.55,
0.00)  DC
          3RD HIGHEST VALUE IS      18.05153 AT (  566130.46,  4191754.22,   150.48,   580.55,
0.00)  DC
          4TH HIGHEST VALUE IS      16.67184 AT (  566150.46,  4191754.22,   155.01,   580.55,
0.00)  DC
          5TH HIGHEST VALUE IS      14.88855 AT (  566170.46,  4191754.22,   160.59,   580.55,
0.00)  DC
          6TH HIGHEST VALUE IS      14.83377 AT (  566190.46,  4191754.22,   165.86,   580.55,
0.00)  DC
          7TH HIGHEST VALUE IS      11.04719 AT (  566110.46,  4191734.22,   149.82,   580.55,
0.00)  DC
          8TH HIGHEST VALUE IS      10.79272 AT (  566130.46,  4191734.22,   154.22,   580.55,
0.00)  DC
          9TH HIGHEST VALUE IS       8.90561 AT (  566150.46,  4191734.22,   160.40,   580.55,
0.00)  DC
         10TH HIGHEST VALUE IS       7.85929 AT (  566170.46,  4191734.22,   166.81,   580.55,
0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

                PAGE 303
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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


                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3                          **

                                                      DATE
                        NETWORK
GROUP ID                           AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
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PAREA1   HIGH   1ST HIGH VALUE IS    3167.48947  ON 11120608: AT (  566170.46,  4191774.22,   155.03,
 580.55,    0.00)  DC

SLINE1   HIGH   1ST HIGH VALUE IS    1292.30953  ON 12011608: AT (  566190.46,  4191774.22,   159.26,
 580.55,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS    4349.27475  ON 12011608: AT (  566170.46,  4191774.22,   155.03,
 580.55,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\UCB_LFF_Const\UCB_LFF_Const.isc
     ***        07/15/22
 *** AERMET - VERSION  14134 ***   *** UCB LFF Construction HRA
     ***        10:56:55

               PAGE 304
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

 *** 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         7953 Informational Message(s)

 A Total of        43872 Hours Were Processed

 A Total of         7152 Calm Hours Identified

 A Total of          801 Missing Hours Identified (  1.83 Percent)


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


    ********   WARNING MESSAGES   ********
              ***  NONE  ***


    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
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APPENDIX A-2

Notice of Preparation Scoping Comments

EAST BAY
MUNICIPAL UTILITY DISTRICT

November 28, 2022

Shraddha Navalli Patil, Senior Planner
Physical and Environmental Planning
University of California, Berkeley
300 A&E Building
Berkeley, California 94720-1382

Re: Notice of Preparation of an Environmental Impact Report for the Cal Softball Field Renovation Project, Berkeley

Dear Ms. Patil:

East Bay Municipal Utility District (EBMUD) appreciates the opportunity to comment on the Notice of Preparation of an Environmental Impact Report (EIR) for the Cal Softball Field Renovation Project located at the University of California (U.C.), Berkeley, Hill Campus West in the City of Berkeley (City). EBMUD has the following comments.

WATER SERVICE

EBMUD's Summit Pressure Zone, with a service elevation range between 500 and 700 feet, will serve the proposed project. A water main extension, at the project sponsor's expense, may be required to serve the project depending on EBMUD's metering requirements and fire flow requirements set by the local fire department. The project sponsor should contact EBMUD's New Business Office and request a water service estimate to determine the costs and conditions of providing water service to the proposed development. Engineering and installation of water mains and services require substantial lead time, which should be provided for in the project sponsor's development schedule.

RECYCLED WATER

EBMUD's Policy 9.05 requires that customers use non-potable water, including recycled water, for non-domestic purposes when it is of adequate quality and quantity, available at reasonable cost, not detrimental to public health and not injurious to plant, fish and wildlife to offset demand on EBMUD's limited potable water supply. Appropriate recycled water uses include landscape irrigation, commercial and industrial process uses, toilet and urinal flushing in non-residential buildings, and other applications.

EBMUD's current recycled water infrastructure and service does not extend through the City limits; however, the City is located within EBMUD's East Bayshore Recycled Water Project designated service boundaries and as part of EBMUD's long term water supply

Recycled Paper

planning, future expansion plans will extend recycled water to various locations within the City and could potentially serve the project. As EBMUD advances plans and implements its recycled water supply expansion to the City, EBMUD requests U.C. Berkeley to coordinate closely with EBMUD and provide an estimate of expected water irrigation demand for potential recycled water to further explore the options and requirements relating to recycled water use. Accordingly, EBMUD will assess and consider the feasibility of providing recycled water to the project area for appropriate uses.

WASTEWATER SERVICE

EBMUD's Main Wastewater Treatment Plant (MWWTP) and interceptor system are anticipated to have adequate dry weather capacity to accommodate the proposed wastewater flows from this project and to treat such flows provided that the wastewater generated by the project meets the requirements of the EBMUD Wastewater Control Ordinance. However, wet weather flows are a concern. The East Bay regional wastewater collection system experiences exceptionally high peak flows during storms due to excessive infiltration and inflow (I/I) that enters the system through cracks and misconnections in both public and private sewer lines. EBMUD has historically operated three Wet Weather Facilities (WWFs) to provide primary treatment and disinfection for peak wet weather flows that exceed the treatment capacity of the MWWTP. Due to reinterpretation of applicable law, EBMUD's National Pollutant Discharge Elimination System (NPDES) permit now prohibits discharges from EBMUD's WWFs. Additionally, the seven wastewater collection system agencies that discharge to the EBMUD wastewater interceptor system ("Satellite Agencies") hold NPDES permits that prohibit them from causing or contributing to WWF discharges. These NPDES permits have removed the regulatory coverage the East Bay wastewater agencies once relied upon to manage peak wet weather flows.

A federal consent decree, negotiated among EBMUD, the Satellite Agencies, the Environmental Protection Agency (EPA), the State Water Resources Control Board (SWRCB), and the Regional Water Quality Control Board (RWQCB), requires EBMUD and the Satellite Agencies to eliminate WWF discharges by 2036. To meet this requirement, actions will need to be taken over time to reduce I/I in the system. The consent decree requires EBMUD to continue implementation of its Regional Private Sewer Lateral Ordinance (www.eastbaypsl.com), construct various improvements to its interceptor system, and identify key areas of inflow and rapid infiltration over a 22-year period. Over the same time period, the consent decree requires the Satellite Agencies to perform I/I reduction work including sewer main rehabilitation and elimination of inflow sources. EBMUD and the Satellite Agencies must jointly demonstrate at specified intervals that this work has resulted in a sufficient, pre-determined level of reduction in WWF discharges. If sufficient I/I reductions are not achieved, additional investment into the region's wastewater infrastructure would be required, which may result in significant financial implications for East Bay residents.

To ensure that the proposed project contributes to these legally required I/I reductions, U.C. Berkeley shall comply with EBMUD's Regional Private Sewer Lateral Ordinance. Additionally, it would be prudent for U.C. Berkeley to require the following mitigation measures for the proposed project: (1) replace or rehabilitate any existing sanitary sewer collection systems, including sewer lateral lines to ensure that such systems and lines are free from defects or, alternatively, disconnected from the sanitary sewer system, and (2) ensure any new wastewater collection systems, including sewer lateral lines, for the project are constructed to prevent I/I to the maximum extent feasible while meeting all requirements contained in the Regional Private Sewer Lateral Ordinance and applicable municipal codes or Satellite Agency ordinances.

WATER CONSERVATION

The project presents an opportunity to incorporate water conservation measures. EBMUD requests that U.C. Berkeley include in its conditions of approval a requirement that the project sponsor comply with Assembly Bill 325, "Model Water Efficient Landscape Ordinance," (Division 2, Title 23, California Code of Regulations, Chapter 2.7, Sections 490 through 495). U.C. Berkeley should be aware that Section 31 of EBMUD's Water Service Regulations requires that water service shall not be furnished for new or expanded service unless all the applicable water-efficiency measures described in the regulation are installed at the project sponsor's expense.

If you have any questions concerning this response, please contact Timothy R. McGowan, Senior Civil Engineer, Major Facilities Planning Section at (510) 287-1981.

Sincerely,

David J. Rehnstrom
Manager of Water Distribution Planning

DJR:EZ:djr
sb22_340 Cal Softball Field Renovation

NATIVE AMERICAN HERITAGE COMMISSION

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November 3, 2022

Shraddha Navalli Patil
The Regents of the University of California
300 A&E Building
Berkley, CA 94720

Re: 2022110035, Cal Softball Field Renovation Project, Alameda County

Dear Ms. Navalli Patil:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a 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 §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, § 5064 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 within the area of potential 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, a notice of negative declaration, or a 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 §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 §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 §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 §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 §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 non-federally 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 §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §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 §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 §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 §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 (https://ohp.parks.ca.gov/?page_id=30331) 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 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, §15064.5(f) (CEQA Guidelines §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 §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §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 or need additional information, please contact me at my email address: Cody.Campagne@nahc.ca.gov.

Sincerely,

Cody Campagne

Cody Campagne
Cultural Resources Analyst

cc: State Clearinghouse

bConnected powered by Google

Planning Departmental <planning@berkeley.edu>

Cal Softball Field Renovation EIR

1 message

Robert Breuer <rfbreuer@gmail.com> Mon, Dec 5, 2022 at 4:17 PM
To: planning@berkeley.edu

Dec. 4, 2022

Shraddha Navali Patil, Senior Planner
UCB Physical and Environmental Planning

We wish to bring to your attention three of the environmental impacts being exacerbated by the upcoming enlargement and expanded use of the Cal Softball Field. We think these concerns should be included and addressed by your planners in your EIR for the proposed alterations and expansion of the Cal Softball Field in Strawberry Canyon.

As Panoramic Hill residents on Mosswood Rd, we live just above and to the west of the softball field. We regularly travel the Prospect St/Canyon Rd/Stadium Rim Way and Centennial Drive. This route serves traffic entering from the south toward the softball field and well beyond to many other facilities above. We are very familiar with the current use and much alarmed by the proposed expansion as described in the Notice of Preparation and Initial Study. Here are just three of our concerns:

Noise

We are used to student noise. BUT…While it is entirely reasonable to expect fans and players on the adjacent athletic fields near our home to yell and shout, the amplified music played before and during games and practices is unnecessary and excruciatingly unpleasant to live with. We ask that plans be in place and restrictions be required of all teams allowed to use the expanded softball field and, that effective safeguards as to amplified sound be established and enforced by UC Athletics. The accumulated audible impacts of Memorial Stadium, Witter Field and the Softball facility uses negatively affects our daily lives.

Lighting

Similar to our noise concerns, the accumulated night lighting coming from Memorial Stadium, Witter Field and soon to be expanded Softball facility uses affects the quality of our evening hours. The bright nighttime lights in the stadium and the fields are often left on even when those fields are entirely empty with nobody is even using those facilities. If UC Athletics is paying so little attention to the electrical cost of these huge burning light arrays with empty facilities, perhaps they might be reasonably required to pay closer attention to the impact of such unneighborly lighting on those of us living nearby.

Traffic

There is already considerable automotive traffic headed up Centennial Drive going toward and past the existing Witter field, the swimming pool, recreation center and softball field, the UC Botanical Garden, the extensive Lawrence Berkeley lab hill campus, Math and science lab facilities, and considerable public use of Lawrence Hall, Tilden Park and upper hillside homes of commuters. Traffic flow includes not only automobiles, but all manner of service vehicles, including large trucks and school buses. Southern entry moves along Prospect St. toward the Prospect Court Lot of Memorial Stadium, where traffic must skirt the stadium by traversing via a one lane bottleneck at Canyon Rd just before Stadium Rim Way. A traffic study of this traffic choke point must be done to determine feasible alterations to the roadway which would ease the dangerously inadequate current layout. We believe this would yield obvious alternative solutions which can easily and affordably be realized.

Pedestrian traffic is also considerable given the ever expanding use of Strawberry Canyon athletic fields and related facilities. This has never been an easy and safe walkway for athletes and spectators, but without significant improvements, including walkable sidewalks and paths, it remains in a dangerously inadequate condition which demands being addressed by planners.

Emergency access and evacuation routes are easily blocked or seriously constrained by the cramped condition of existing roads. Such a situation is critical, especially as ours is a well known seismically unstable area and very much prone to wildfire, let alone to critical emergency service response times.

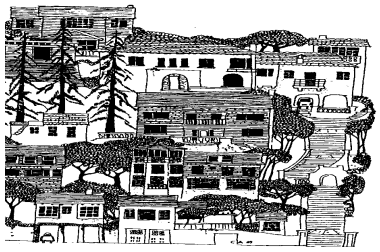
We know that opportunity now exists for the proposed “Cal Softball Field Renovation” project to adequately deal with the concerns in the three areas discussed above.

Sincerely,

Robert and Frederica Breuer
29 Mosswood Road
Berkeley CA 94704-1819

rfbreuer@gmail.com

Softball EIR concerns.pdf
135K



Panoramic Hill Association
PO Box 5428, Berkeley, CA 94705

Shraddha Navalli Patil
Senior Planner
UCB Physical and Environmental Planning
300 A&E Building
Berkeley, CA 947020-1382

Re: Cal Softball Field Renovation EIR
Via Planning@berkeley.edu

Dear Ms. Patil,

These comments are submitted on behalf of the Panoramic Hill Association Board of Directors. We hope the following issues will be adequately addressed in the Environmental Impact Report (EIR) being prepared for the proposed intercollegiate women's softball facility in Strawberry Canyon. Our comments are in response to the Notice of Preparation (NOP) and the Initial Study.

First of all, we point out the obvious, which is that the proposed project is much more than a field renovation and is in fact the makings of a new facility which enables various activities not presently possible. Although the NOP states that "(t)he use of the softball facility would remain largely similar to current uses, primarily providing spectator and player amenities...", there are significant differences between the existing facility and the proposed facility. The implications of these differences must be addressed.

Just one of the significant differences between the existing and the proposed facility is the installation of "competition-grade" lighting. Competition-grade lighting enables a particular use, cable and network broadcasting, which in turn is associated with its own set of impacts.

The press box, another feature of the "field renovation," also enables broadcasting.

Broadcasting also requires trucks which have unique traffic and parking impacts, assuming the trucks need to be close to the venue.

Broadcast-related requirements might be spelled out in the contract between UC and the vendor at some time in the future. Although a specific contract might not be in hand, general requirements can be anticipated based on the experience UC and the public have had vis à vis

impacts from the Southeast Campus integrated Projects (SCIP) which installed “improved” lighting. Absent a contract, it remains evident by history that broadcasting has its own unique set of impacts. It also remains evident as a result of long range budget proposals which anticipate revenue from broadcasting.

Without accurately identifying potential uses, the environmental cost of the proposed project cannot be adequately assessed.

In the public meeting for the Notice of Preparation, the university representatives made the statement that the project would not need generators. Given that cable and network broadcasters have previously required generators, further explanation is warranted for purposes of this analysis. Please address this point that generators will not be needed at the softball facility but are needed at Memorial Stadium? How can this be?

It is noted, for example, that Strawberry Canyon Medium Voltage Switch Replacement was recently announced for project bidding. Will the switch replacement work enable broadcast lighting and the requirements imposed by networks? Is this why generators will not be needed?

In short, what does competition grade lighting enable that is not presently possible? Does the university intend to broadcast events at the proposed facility, and if not, why add the press box? Does broadcasting involve contracts with either cable or broadcast networks? And if so, what do networks generally require? Can the proposed location accommodate the changes which are needed to broadcast? So as to accommodate broadcast-related trucks and other equipment, will any more parking be removed from Strawberry Canyon Recreation Area (SCRA) that has not already been proposed for removal?

It will also be important to adequately characterize the project location and to study impacts in relation to the canyon environment. The Long Range Development Plan (LRDP) created land use zones, and located the existing women’s softball field within the Hill Campus West (HCW). However, the HCW zone does not adequately describe the particular topographic features of the canyon and thus does not adequately reflect the conditions for the particular location of the proposed facility. HCW instead focuses on the features peculiar to the university properties which are on a hillside, but facing west and southwest. The topography of a canyon is quite different from hillsides generally and is defined in Merriam-Webster as a “deep narrow valley with steep sides and often with a stream flowing through it”.

The proposed project location differs from Witter Field location which is west of the proposed project and thus not as deep into the canyon. The proposed project location also differs from Memorial Stadium which is not in Strawberry Canyon but at the entrance.

Noise is context dependent, and the canyon walls create an acoustical effect that is unique to this particular place. It is therefore essential to do an acoustical analysis which is reflective of the canyon walls and terrain. What assumptions and parameters are included in the “3-D

prediction model" which will be used to estimate noise impacts? It will be important to disclose the assumptions and parameters in order to assess the adequacy of the analysis.

The NOP mentioned that the model would be used to "quantify combined noise levels at the closest noise-sensitive uses from softball game activity, spectator participation, and public address system uses". The closest dwelling is at the same elevation as the softball field, and yet impacts occur uphill of the project as well.

The NOP has described the neighborhood as southwest of the existing field. It will be important for the impact analysis to also recognize the reality of houses south, uphill, and out of sight of the proposed project. Depending on topography, some houses are more impacted than others. The "closest" structure is not necessarily the most impacted. (Reference PHA's Public Hearing Comment 11/17/22)

The impacts from lighting will also need to consider context. The light reflects from the canyon walls, and the reflected hillside is visible to the naked eye.

The validity of the biological resource impact analysis will depend in part on the accuracy of the noise and light analysis. Hence, the validity of the biological resource impact analysis depends upon an accurate and relevant description of context.

The biological resource impact analysis will also depend on the extent to which the databases are particular to the native bay-oak woodland that is south of the project and the riparian woodlands that are in the creeks north of the facility, e.g., Chicken Creek. There are non-native species which are located elsewhere in Strawberry Canyon, but in this section of Strawberry Canyon, native bay and live oak trees are abundant.

Impacts will also be determined by the intensity of the use of the proposed facility? Will usage be limited to intramural athletics and intercollegiate women's softball and day camps during the summer? Will there be limits to using the proposed facility for anything other than athletics, e.g., as an entertainment venue?

Some of the spectators will need to walk to the softball facility. They will not only be walking from the Maxwell Field parking lot, but some spectators will be walking from south of Rim Way. This is because the proposed spectator population at the proposed softball facility exceeds the capacity of the Maxwell Field and Witter Field lots.

Pedestrian traffic is a problem that has been observed at the Witter Rugby Field depending on the type of activity, e.g., tournaments, at the field. Given the limited parking, many pedestrians are unable to park nearby and therefore are unable to safely walk to the facility from south of the stadium.

The analysis must also consider the possibility of concurrent events at intercollegiate softball and rugby. Records show that this has happened in the past.

Please illustrate the area with graphics to show the amount of space between Rim Way and the Witter Field chain link fence (how many feet?) and the amount of space between the Rim Way and the Memorial Stadium fence (how many feet?). It is this area in which people walk and take over the roadway because of limited space. There is very limited access for cars, trucks, buses, and pedestrians in the area.

If you cut off Rim Way to cars to solve the problem, this would impact Berkeley residents, especially Panoramic Hill residents, who are locked in with limited egress out of the vicinity.

In terms of the historic resources in the area, the Panoramic Hill Historic District is listed on the National Register of Historic Places. The integrity of the historic district depends on context which is at risk of further degradation. Yet, it is not only the Panoramic Hill Historic District which is at risk of being ruined but also Strawberry Canyon's potential as a historic resource. Please evaluate the impact on the Panoramic Hill Historic District as a historic resource and also evaluate the impact to the integrity of Strawberry Canyon as an important place in California's history.

In terms of ecological hazards in the area, the wildfire analysis should include not only a "summary of emergency response resources" but also should provide specific emergency evacuation plans for multiple hypothetical scenarios depending on the direction of the winds and the location of the fire. The scenarios should also include spectators evacuating the softball field, concurrently with spectators evacuating the rugby field, concurrently with Panoramic Hill residents trying to evacuate the area through the one exit available to them at the base of Panoramic Hill and across the street from Memorial Stadium. The scenario might also include a fire coming from the northeast, and people trying to evacuate Grizzly Peak and thus driving west down Centennial Drive.

In addition to fire hazards, there are natural hazards due to landslides on the hillside that was carved out to build Memorial Stadium. What is the likelihood of a landslide at this location, at the intersection of Centennial Drive and Rim Way, on the west-facing and south-facing hillside? And what are ancillary impacts related to evacuation in the event of a landslide at this area?

There will also be cumulative impacts which will need to be addressed. The proposed project would be built within a dense complex of adjacent facilities (Witter Field, CMS, & Maxwell Family Field) *all of which* have had major projects increasing their use recently. In addition, all of those facilities have engaged in continuing incremental increases in intensity of use after their respective environmental review were completed, often exceeding the uses and intensity anticipated in their individual EIRS. Therefore, the environmental study of this project should consider cumulative impacts, e.g., increased light, noise, traffic, etc., within the larger context of continuing intensification in the areas as a whole.

Finally, in consideration of the impacts to this area of Strawberry Canyon, its flora and fauna, its people who live nearby, the natural disasters from the proximate Hayward Fault and Alquist-

Priola Fault Hazard Zone as well as the Very High Wildfire Hazard Severity Zone, we urge you to carefully and objectively consider alternative locations for this project. Among the considerations might be a location which is closer to the downtown and more exciting to visitors, e.g., the existing athletic quadrant in the southwest area of Central Campus. There are also underutilized fields, e.g., the North Field, behind Hearst Gym. The intercollegiate games occur in the evening and would not disturb faculty. The University might also consider expanding athletics closer to the beautiful San Francisco Bay, e.g., near the Gilman Tract. This is a moment which again opens to the University to rethink the future.

In closing, thank you for this opportunity to comment about what we hope will be analyzed in the EIR. We look forward to reviewing the University's study of the proposed project.

Sincerely,

Michael Kelly and Janice Thomas
For the PHA Board of Directors

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Shraddha Navalli Patil PhD <shraddha@berkeley.edu>

Fwd: Cal Softball Field Renovation EIR

1 message

UC Berkeley Planning <planning@berkeley.edu> Mon, Nov 28, 2022 at 9:55 AM
To: Shraddha Navalli <shraddha@berkeley.edu>

---------- Forwarded message ---------
From: **Ellen Leuenberger** <ellen.leuenberger@gmail.com>
Date: Thu, Nov 17, 2022 at 2:51 PM
Subject: Cal Softball Field Renovation EIR
To: <planning@berkeley.edu>

Hello -

I am writing a quick note in support of the Cal Softball Field Renovations and to say thank you for Cal's work improving the facilities and the surrounding environment. We live in an environment with difficult physical constraints, and I appreciate the effort to make the most of the challenging sites that are our city.

Unfortunately, too often, environmental impact reports and due diligence requirements are used to stymie maintenance and improvements. I do hope that these requirements are engaged in good faith by the university. But I also support all efforts to facilitate the development and avoid wasting valuable public funds purely on wasteful regulation and delays.

In summary - I am a resident and homeowner on Panoramic Hill, and I support and am grateful for the university's efforts to improve their facilities, in this case, specifically pertaining to the Cal Softball Field Renovation.

Thank you
Ellen Leuenberger

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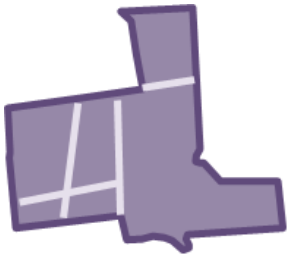
Physical and Environmental Planning
300 A&E Building
UC Berkeley

website: capitalstrategies.berkeley.edu
phone: (510) 643-4793
email: planning@berkeley.edu



SOUTHSIDE NEIGHBORHOOD CONSORTIUM

Shraddha Navalli Patil
Senior Planner Physical & Environmental Planning
University of California, Berkeley
Planning@berkeley.edu

Re: Cal Softball Field Renovation EIR

Dear Ms. Patil,

The Southside Neighborhood Consortium (SNC) is a group of Berkeley residents who endeavor to preserve the values which sustain neighborhoods. And so it is with great interest that we learn that a major developer in our town, the University of California, has given notice to the public that it is preparing an environmental impact report (EIR) to build another facility in Strawberry Canyon. We noted that the project is called a "field renovation," but the details of the project announce so much more in contradiction to this modest aim. We hope the university will be forthcoming and adequately describe the proposed project so that impacts might be fairly analyzed for this particular location.

At the outset, we contend that the area around the stadium is already intensely used by intercollegiate athletics. In your presentation at the public meeting on November 17, the university indicated that spectators would double in number. The university also noted that the number of games would increase. Softball has an intense schedule already, sometimes occurring three nights in a row, and we note that any increase in number of games means even more intensity and more exposure to residents who live nearby.

Other changes which enable more intense use include competition-grade lighting and a press box. Please clarify whether the project will include network or cable broadcasting. And if the proposed project does include broadcasting, please identify the impacts associated with this activity.

Please indicate as well whether or not the renovated area will include non-athletic activities, e.g., concerts.

In terms of evaluating impacts, we ask that you identify all of the intercollegiate sports which occur in this most eastern end of the developed area of campus, i.e., the football stadium, Maxwell Field, and Witter Field. Existing impacts have already exceeded what is realistic given the topography of the area and the inadequate roadway network that serve the area.

We point out too that whatever hazards might exist from pedestrian-vehicular (trucks and cars) conflict are exacerbated by the natural hazards which might existing from locating these activities either directlyu on top of the Hayward Fault (in the stadium bowl) or in the Alquist-Priolo Fault Hazard zone east of the

Hayward Fault. Hazards also exist as a result of the area being located in the state-designated Very High Fire Hazard Severity Zone (VHFHSZ). Denuding the area of trees does not eliminate the importance and the implications of this fundamental fact.

We point out that the eastern most north-south corridor runs along Gayley-Piedmont-Warring-Derby-Claremont. Traffic exceeds capacity dependent on time of day, time of year, and due to events which occur at various UC development venues east of Gayley-Piedmont. These include Greek Theater events and the various sporting events in the area, which sometimes occur concurrently, despite the University's promises to the contrary.

We also point out that neighbors who live further up the hill on the ridge of the Berkeley hills drive down Centennial Road to access Berkeley and beyond. These neighbors too have interests in any additional activity on the roadway from Grizzley Peak – Centennial Drive – Rim Way corridor.

We maintain that the road network in the area is limited by topography and by existing structures and that the area has thus reached its maximum development. The university should be moving in the opposite direction, i.e., off-loading activities, rather than adding structures which increase activities in the area.

The Long Range Development Plan did not study this area as an athletic zone, but instead carved it up into land use zones which are unrelated to sports and the episodic activities attendant to sports.

We also note that the issues related to this site are not only due to vehicular traffic but also pedestrian traffic. It seems that the university has failed to ever adequately consider the number of people who walk to the facility from their cars and who fill the streets, and who thus risk life and limb to both drivers and walkers. Proximate parking is limited.

The road networks are a problem not only for commuters but also in terms of evacuation scenarios. Exiting the area is already a nightmare, and any additional activities in the canyon, no matter the number of days or hours of the day, only worsen the problem.

The university asserts that the lights are an improvement over the existing lights. Yet we also note that the lights are significantly taller than the existing lights and that the proposed lights enable broadcasting. Refraction off the canyon walls limit mitigation, and thus, lighting "improvements" do not adequately mitigate light-related impacts. Anyone driving through the area can see the lighting impacts are not only due to glare but also from the brightened sky directly above the downward pointed lights.

Light-related impacts are extensive. Please be sure to evaluate the effects of light on biological resources as well as on aesthetics and historic resources.

The proposed project in the canyon location portends further transformation of an area which is already at risk of losing its authenticity. We note that Strawberry Canyon is an historic place, that Memorial Stadium, Bowles Hall, and part of the Panoramic Hill neighborhood are all listed on the National Register of Historic Places. Most vulnerable is the impact to the Panoramic Hill Historic District which is on the north-facing slope of Strawberry Canyon. Despite the vegetation which will mitigate view of the facility, the district will be impacted by the light in the canyon and not only noise. Will noise and light degrade the integrity of a historic resource which is listed as a district of houses?

The location of the proposed project is on the canyon floor with the north-facing hillside containing a California bay-live oak woodland. On the south-facing hillside there is a riparian area, including Chicken

Creek, with biological resources. Whereas much of the Canyon has tree plantations, these areas of the canyon, which are closest to the proposed project location, have native plant species and provide critical habitat for native animal species. Please identify the specific assumptions, e.g., location, used in any database the university references as evidence, or lack thereof, of biological resources.

Thank you for your attention to these concerns. We close with great interest in your analysis.

Sincerely,

Southside Neighborhood Consortium:

Joan Barnett, President, Dwight Hillside Neighborhood Association
George Beier, Steering Committee, Willard Neighborhood Association
Phil Bokovoy, President, Save Berkeley's Neighborhoods
Patrick Sheahan, President, Claremont Elmwood Neighborhood Association
Lesley Emmington, President, Make UC A Good Neighbor
Andrew Johnson, President, Bateman Neighborhood Association
Gianna Ranuzzi, President, Le Conte Neighborhood Association
Shirley Dean, Executive Committee, Berkeley Neighborhoods Council
David Shiver, Stuart Street/Willard
Michael Kelly, President, Panoramic Hill Association
Lisa Bruce, President, Berkeley Together

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Shraddha Navalli Patil PhD <shraddha@berkeley.edu>

Fwd: Cal Softball Field Renovation EIR

1 message

UC Berkeley Planning <planning@berkeley.edu> Mon, Nov 28, 2022 at 9:54 AM
To: Shraddha Navalli <shraddha@berkeley.edu>

---------- Forwarded message ---------
From: **Stake Holder** <stakeholder888@gmail.com>
Date: Fri, Nov 18, 2022 at 9:16 AM
Subject: Cal Softball Field Renovation EIR
To: <planning@berkeley.edu>

Hi,

Can you tell me why the University has to have a Softball field on top of a Creek in Strawberry canyon? Why can't they relocate the softball field to somewhere on flat ground that is not on top of a creek. This creek should be daylighted. It is the environmentally correct thing to do. The plants and animals would be happier and there would be much less chance of a 500 year flood wreaking havoc on the citizens.

Look at the numbers.
publicly attended game days
1500 seats. 100,000 people in berkeley
.015 percent of the population served
only on publicly attended game days.

all these new seats for 2 game days a year?
unless maybe, they get into the playoffs of the world series.

As we all know the largest beneficiary will be the tv coverage advertisers.
This is BS..

As far as intramural and practice are concerned.
every day till 10pm?
This light pollution will affect the wildlife in the canyon.

Please find another place for the field.

Sam Stakeholder

--
++++++++++++++++++++++++++++++++
Physical and Environmental Planning
300 A&E Building
UC Berkeley

website: capitalstrategies.berkeley.edu
phone: (510) 643-4793
email: planning@berkeley.edu

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2140K

Chapter 1

HISTORIC FLOODING IN BERKELEY

Roger Lawler

Introduction

Since the 1850's, when it began to be settled by substantial numbers of people, Berkeley has experienced periodic flooding. Present-day flooding stems from both natural and human-induced causes; it seldom results in severe damages, but can cause major inconveniences.

This paper examines several different aspects of flooding in Berkeley: First, topographical, cultural, and climatic factors that contribute to flooding will be explored. Next, the chronology of floods is examined, beginning with the years before records were kept and ending with 1982. A summary will complete the report.

Background to Historic Flooding in Berkeley

The Bay Area is characterized by a Mediterranean climate. The weather is variable, but generally mild. The rainy season usually begins in October and lasts through May. Storms pass through in frontal systems, lasting one to three days. Normally, precipitation falls evenly in such a weather pattern. Rain can fall intensely, however.

Berkeley rainfall is recorded by a United States Weather Service Cooperative Station with instruments located on the roof of the Earth Science Building at the University of California. The daily and hourly records date back to 1886 and 1925, respectively. From 1849 to 1886, Berkeley's rainfall can be estimated from the San Francisco record, since both cities' average rainfall is approximately twenty-two inches, and since both stations derive rainfall from passage of the same frontal systems.

The Berkeley rainfall record shows both long- and short-term variability. The past eleven years have been particularly variable. During that time span, the Berkeley station has recorded its wettest (1982-83), second wettest (1981-82), sixth wettest (1972-73), and seventh wettest (1973-74) seasons, as well as its driest (1975-76) and third driest (1976-77) seasons. December, 1955 holds the record for the wettest month (15.04"), while the most rain in one hour (0.98") fell in December, 1969. The most rain in any 24 hour period is 6.98", recorded on January 4, 1982 (a 24 hour period is from midnight to midnight, whereas a one day period is 24 hours in length but starting at any time) (Figures 1, 2).

Figure 1. Maximum and Minimum Precipitation For Berkeley, California

Rainfall -- Maximum: Monthly and Annual Data

	Historical		Last 30 Years	
January	16.54"	1916	12.47"	1973
February	10.85"	1919	9.14"	1958
March	13.19"	1899	7.06"	1958
April	6.72"	1896	6.06"	1958
May	5.26"	1915	3.56"	1957
June	1.24"	1907	1.21"	1967
July	1.50"	1974	1.50"	1974
August	1.33"	1976	1.33"	1976
September	4.44"	1904	2.62"	1959
October	7.05"	1962	7.05"	1962
November	11.47"	1973	11.47"	1973
December	15.04"	1955	15.04"	1955
Annual	39.81"	1973	39.81"	1973

Rainfall -- Minimum: Monthly and Annual Data

January	0.29"	1976
February	0.00"	1953
March	0.03"	1956
April	0.00"	1970
May through September	0.00"	has been equalled many times
October	0.00"	1966
November	0.00"	1959
December	0.26"	1956
Annual	9.89"	1929

Rainfall -- Maximum: One Day[1]

January	6.98"	1982	0.1"	1974
February	3.10"	1940	1.0"	1976
March	2.54"	1940	Tr.	1975
April	2.43"	1957	0	
May	1.99"	1957		
June	1.04"	1929		
July	1.40"	1973		
August	0.62"	1976		
Sepremeber	2.52"	1959		
October	2.39"	1962		
November	3.41"	1977	0	
December	2.96"	1969	0.1"	1972

[1]For the period 1929 to the present.

Normal Precipitation for Berkeley
(Normal is defined as the 30 year mean for the period 1941-1970)

January	5.05"
February	3.38"
March	2.95"
April	2.00"
May	0.64"
June	0.19"
July	0.01"
August	0.07"
September	0.20"
October	1.31"
November	2.92"
December	4.53"
Annual	23.25"

Maximum Precipitation in Any[2] 24 Hour Period (1955-1982)

January	6.98"	(1982)
February	3.08"	(1962)
March	2.23"	(1968)
April	2.64"	(1958)
May	2.19"	(1957)
June	0.90"	(1967)
July	1.44"	(1974)
August	0.71"	(1976)
September	2.55"	(1959)
October	3.95"	(1962)
November	3.57"	(1973)
December	3.30"	(1955)

Maximum Short Duration Precipitation (1940-1982)

1 hr	0.98"	Dec.	1969
2 hr	1.41"	Dec.	1969
3 hr	1.83"	Dec.	1969
6 hr	2.74"	Dec.	1969
12 hr	4.00"	Jan.	1982
24 hr	6.98"	Jan.	1982

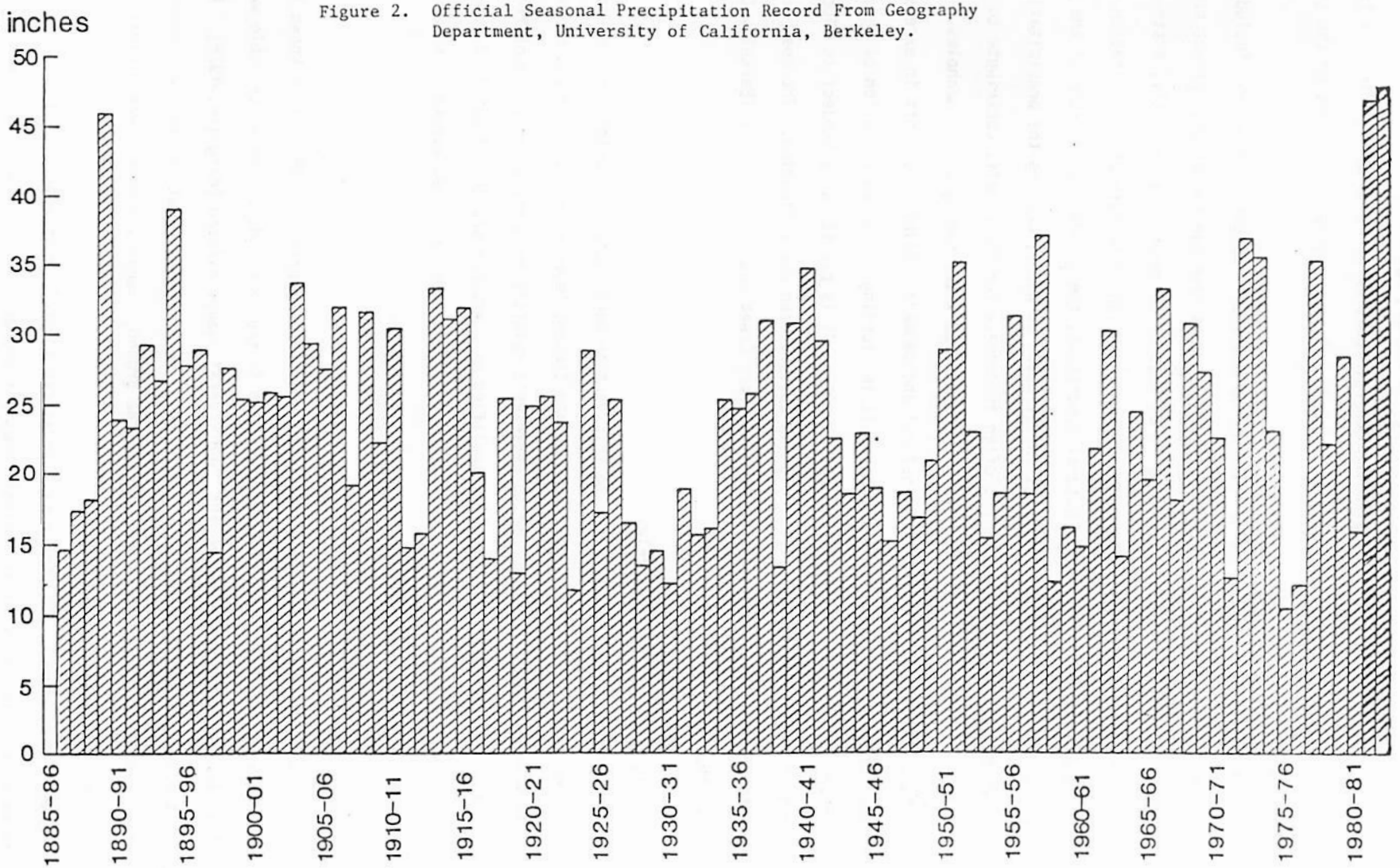
Five Wettest Seasons (Rainfall Season Runs July 1 - June 30)		Five Driest Seasons	
46.00"	1888-89	10.41"	1975-76
39.01"	1894-95	11.57"	1923-24
37.15"	1957-58	12.02"	1976-77
36.98"	1972-73	12.20"	1931-32
35.60"	1973-74	12.32"	1958-59

Maximum Precipitation in One Hour by Month (1955-81)

January	0.56"	1970
February	0.39"	1962
March	0.66"	1975
April	0.88"	1958
May	0.42"	1957
June	0.12"	1972
July	0.06"	1974
August	0.24"	1976
September	0.47"	1959
October	0.48"	1962
November	0.60"	1981
December	0.98"	1969

[2]24-hour period from midnight to midnight. Maximum rainfall for any 24-hour period is currently being calculated.

Figure 2. Official Seasonal Precipitation Record From Geography Department, University of California, Berkeley.



Rainfall is a primary cause of flooding, of course, but there are other factors. For instance, Berkeley's topography helps determine the general location of flooding. Berkeley's topography consists of hills, a piedmont and an alluvial plain. Flooding generally occurs on the gentle slopes of the piedmont or the flat alluvial lands.

Another factor contributing to flooding is man's development in Berkeley, including construction of culverts, paved streets and storm drains. Culverts have had the biggest effect on flooding, by filling or becoming blocked with debris in an intense downpour. Consequently, a stream may be diverted, causing much damage along its new course. Increased runoff because of concentration of flow due to paving is another problem. Under natural conditions, the ground absorbs some of the rainfall, storing it as groundwater. Pavement prohibits infiltration of water, causing the precipitation to run off all at once. Storm drains, which are often inadequate for the runoff, contribute to flooding, especially in the streets. Traffic tie-ups result from water coming out of manholes.

The causes of flooding are both natural and manmade. Rainfall amounts in excess of 1.5 inches per day, or .7 inches per hour usually result in flooding. The low elevation of West Berkeley makes it perhaps the most flood-prone area of the city. It is particularly subject to flood damage during periods of high tides. Undersized, clogged culverts can cause flooding. The most common overflowing culverts are found on Strawberry Creek, at Oxford Creek and Harwood CReek (Berkeley Daily Gazette, October 15, 1962).

A Chronology of Floods in Berkeley

All accounts of flooding given in this section were found by examining old newspapers in the Newspaper Room at Doe Library. Geography Graduate Student Dave Larsen, the current University of California Weather Observer, guided me to Berkeley's rainfall records, where I pinpointed the periods of most intense rainfall. This greatly simplified my newspaper search. I obtained some flood damage information from Glenn Carlos, a City of Berkeley engineer, and Fred Warnke, Manager of Grounds Services for the University of California Facilities Management.

The Early Years

Though it is unclear how much rain fell on Berkeley prior to 1886, it is known that much more surfacewater and groundwater existed then than is the case today. The water table was higher, large deltas formed at the streams' mouths, and several swamps existed (Margolin, 1978). A lake was located near the junction of Ashby, Adeline and Grove. This suggests that pre-record flooding could have been serious at times, given the saturation of the ground. Damage, however, was minimal or nonexistent, since development was so limited.

Between 1849 and 1886, Berkeley experienced several major storms. In fact, the wettest season experienced by Berkeley in historical times was probably 1861-62, when 49 inches of precipitation fell

in San Francisco. This is around 225% of San Francisco's and Berkeley's normal rainfall. Eight other seasons between 1849 and 1886 had at least 150% of average precipitation. Intense rains in December, 1871, when it rained for 60 hours continuously, produced widespread damage. Torrential rains flooded streets and halted trains in San Francisco.

The Floods of 1904

The first major flood damage of the twentieth century occurred on February 12, 1904, when approximately five inches of rain fell on Berkeley in 24 hours (Berkeley Daily Gazette, February 12, 1904). The storm, which brought some of the most intense rainfall in Berkeley's recorded history, disrupted public transportation and produced major flooding in the western part of the city. Several feet of water stood at many intersections in the lowlands.

The north fork of Strawberry Creek also overran its banks, sweeping down Euclid Avenue in a torrent. After crossing Hearst Street, it regained its channel, swelling until it flowed over the bridges in its path.

The Flood of January 2, 1916

Twelve years later, the Berkeley City Engineer stated in his storm damage report of January 2, 1916 that "the greatest rainfall in history" had occurred, dropping 1.15 inches in one hour, possibly a record to this day. It was estimated that for a few minutes rain fell at the rate of 10 inches an hour (Berkeley Daily Gazette, January 13, 1916). Considering the storm's intensity, Berkeley's damage was relatively light. Cost to the city was several hundred dollars, not including the expense of replacing the screenings and sand washed off the streets. The city's storm system performed well under the extreme conditions with only the streets east of Shattuck Avenue taking a beating.

Actual stream flooding took place at various locations in northeast Berkeley. A small creek flowing out of "the old quarry" overflowed when its intake became blocked, damaging property on Shasta Road and Tamalpais and Leroy Avenues. Public and private property were covered with debris.

Flooding took place on Codornices Creek, north of Spruce Street, a location that regularly flooded historically (Berkeley Daily Gazette, January 13, 1916). The damage to adjoining property was caused by overflowing sewers. Upstream, bulkheads were undermined and had to be repaired. Downstream flooding caused even more damage. The bridge over Codornices Creek at Stannage had to be repaired due to the loss of several supporting posts. A northern branch of Codornices Creek became clogged, causing flooding which heavily damaged the slope on the west side of the street. The Engineer's Report concluded that "it has been necessary to stop all other work and confine our efforts to taking care of these emergency conditions and will claim the attention of the regular force of the department for several weeks" (Berkeley Daily Gazette, January 13, 1916).

The Floods of 1925 and 1927

In 1925 and 1927 there occurred three floods which did minor damage to the University. On the 12th and 15th of February, 1925, Strawberry Creek rose enough to do considerable damage (The Berkeleyan, February 13, 1925). On the 12th, the swollen creek washed out a protecting wall. As a result, the stream straightened itself, steepening its gradient. On February 16, a headline in the University newspaper read: "Strawberry Creek Carries Soil at the Rate of 30 Tons Per Hour." The Creek became a river and "tore huge rocks away" from its banks. On February 24, 1927, the foundation of a campus building was washed away by another powerful flood, although the building itself was not endangered (The Berkeleyan, February 24, 1927). The foundation was repaired, and the building survived a number of later floods.

The 1940 Floods

During 1940, a record-setting storm passed through the San Francisco Bay Area, wreaking havoc in its path. The Sacramento-San Joaquin River Delta, Russian River Valley, and Sacramento Valley all suffered major damage from flooding and levee breakage. The Sacramento River overflowed, flooding farm lands (Berkeley Daily Gazette, February 29, 1940). By March 5 of that year, the flooding had caused nine deaths, 15 million dollars in damage and left epidemic disease in its wake. Berkeley was not spared from floods, which hit local merchants with $200,000-$250,000 in damages (Berkeley Daily Gazette, February 28, 1940).

February 1940 became the wettest February ever, due to this storm, which dropped seven inches of rain in 48 hours on the 27th and 28th of the month. Flooding was especially bad on the north side of town. The culvert carrying Strawberry Creek, which passed directly under Reid's Pharmacy at Hearst and Euclid Avenue, exploded there after being clogged by a fallen tree or a tree stump. The raging creek tore right through the store, destroying most of the merchandise. Damage was estimated at $20,000. Three adjacent stores had silt marks three feet high on their walls.

After breaking out of the pharmacy (Figure 3) the renegade creek raced down Hearst, turned on Shattuck, and finally went down University Avenue. A 17-block area was covered with several inches of a yellow mud.

Some of the other stores affected by this incident were the Euclid Food Store, whose plate glass windows were taken out by the torrent, and a laundry shop which had more than 100 bundles of cleaned laundry soaked in the mud.

Some of the flow from the North Fork of Strawberry Creek continued across Hearst to its usual channel, tearing up a fence and the chancellor's garden on its way. The creek ran onto Center Street due to a blocked culvert, and continued to the bay on Addison Street and Allston Way. Merchandise from Northside shops--heads of lettuce, cameras, candles, decks of cards, and a thousand other items--

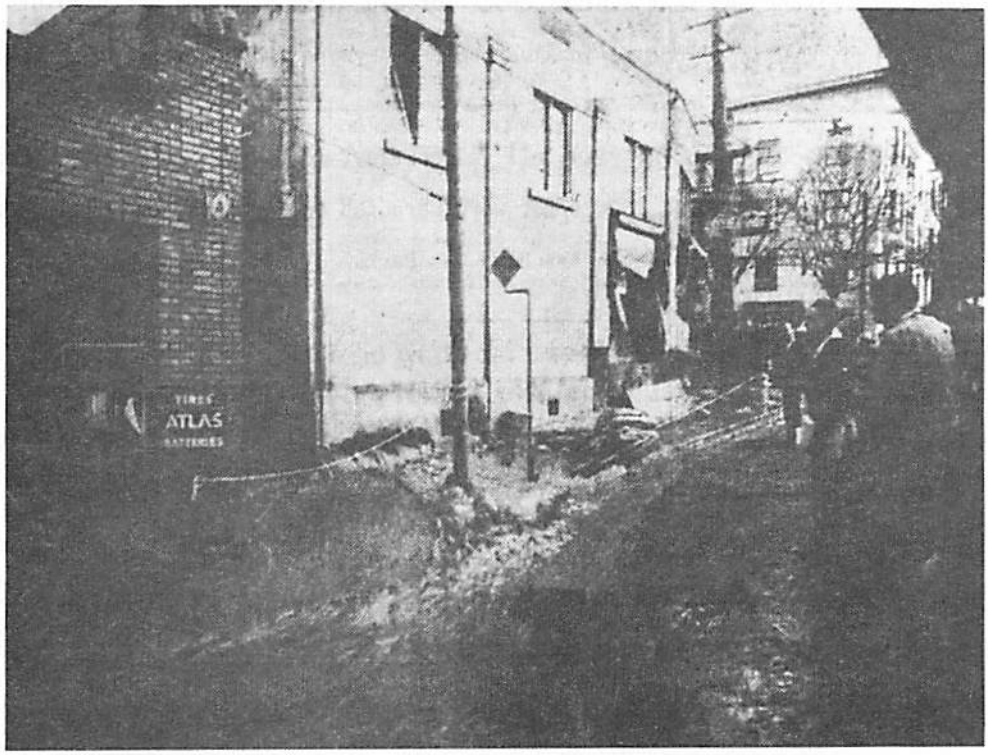


Figure 3. Strawberry Creek pours out of a building in which a culvert exploded.
Source: Berkeley Daily Gazette, February 28, 1940.

flowed down past Shattuck Avenue to Sacramento. Students at the University of California had a good excuse for not taking final exams; 20,000 bluebooks were among the losses. Mud was ankle-deep at Berkeley High School on Milvia. In front of City Hall on Grove Street one could find soap bars, cameras and other items amongst the muddy ooze.

A closed culvert caused Strawberry Creek to jump its banks on Browning Street between Allston and Addison. It raced across the street, barging into a recreation hall, where it displaced a piano.

On March 30, 1940, Reid's Pharmacy was again threatened by a lasting downpour (Berkeley Daily Gazette, March 30, 1940, p. 1). This time, however, the city engineers were forewarned and they relieved the pressure on Strawberry's North Branch culvert by diverting its swollen contents at Le Roy and Ridge Road.

The Storm of 1955

The storm of December 21 to 30, 1955, caused more damage in California than any natural disaster since the 1906 earthquake. Fifty thousand people were rendered homeless and 60 died as a result of major flooding on every river in the northern part of the state. The worst flooding occurred at Yuba City, where the Feather River crested twice, wreaking havoc and necessitating martial law. Twelve thousand acres of farmland were inundated. A war-like mobilization was ordered to aid the

stricken areas and President Eisenhower sent a blank check for aid. The Bay Area was hard hit as well. Levees broke in the South Bay, causing flooding in Alvarado and Hayward and Richmond, that lasted several days.

During December a record 15.04 inches of rain fell in Berkeley, mostly during the last eight days of the month. No major damage was reported, but trees were uprooted on San Luis Road, Telegraph Avenue, Shattuck Avenue, Florence Street, Northampton and at Live Oak Park.

The Storms of September 17, 18 and 19, 1957

May 1957 is the wettest May on record. Helped by a 24 hour total rainfall of 2.19 inches on May 18, that month's rainfall came to over 5 inches (Berkeley Daily Gazette, May 18, 1957). Despite this intense downpour, no flooding was reported.

Later that same year, on the 17, 18th and 19th of September, a heavy storm hit Berkeley. Damage was limited to downed power lines, uprooted trees and some auto accidents. A car was trapped at Bancroft and Browning Street with water up to its window, most likely a victim of Strawberry Creek overflowing its banks (Berkeley Gazette, May 18, 1957).

The Columbus Day Storm of 1962

The most damaging storm ever to hit Berkeley began on Friday, October 12, 1962, and lasted three days. On the 12th, 0.48 inches dropped in one hour and 3.95 inches fell in a 24 hour period. Berkeley's rainfall hit record-breaking highs, damaging the University considerably. The incredible amount of rainfall of Friday the 12th and Saturday the 13th caused Chicken Creek, a tributary of Strawberry Creek in Strawberry CAnyon, to overflow at the culvert above Haas Club House (Lennert and Associates, 1963). THis overflow from Chicken Creek, combined with mud from slides in the canyon, flooded the entire Strawberry Canyon Recreation Area. The muddy torrent went right through Haas Club House and filled the swimming pool with mud and debris. At Rimway Road, the mud river split in two directions, part heading for Cowell Hospital, deluging that building with mud and water, while the other part passed through the International House. It broke the ground floor window, entered the lobby as a wall of mud and debris several feet wide and six inches deep and exited through the main doors. After pouring down the stairs, it followed a downhill course on the Berkeley streets. As much as three feet of mud covered some areas of the canyon. Actually, the Chicken Creek outflow had been diverted purposely by the University engineers to avoid greater damage by the overflow of Strawberry Creek.

Strawberry Creek overflowed its banks above Sather Gate, flooding the ASUC offices and basement. Even the garage was not spared, as water poured down through the drains. Below Dwinelle Hall in the Eucalyptus Grove, Strawberry Creek was 20 feet wide; over five times its normal width. The culvert at Oxford and Center Street overflowed, sending water down Center Street.

Mud from construction sites at Etcheverry Hall, Wurster Hall, Barrows Hall and the Biochemistry Building added to the damage. Etcheverry's construction was set back several months. Damage to the University came to $100,000. A 40-man crew worked from Friday, October 12, until Tuesday the 16th in Strawberry Canyon, clearing away the mud and debris.

Elsewhere in the city, many roads and buildings were flooded. A school had to be closed due to a flooded cafeteria (Berkeley Daily Gazette, October 15, p. 3). Accumulation of rainwater on the roof of a sporting goods store on Telegraph Avenue caused the building to collapse. Both KPFA and KRE, whose buildings flooded, had to go off the air for six hours. The biggest worry, however, was a broken sewer line near the Oakland border that poured raw sewage into the neighborhood.

This, the "Columbus Day Storm," had a colossal 1100 mile front wreaking havoc from California to Canada. Six deaths occurred in Northern California. In the Bay Area, the Nimitz and the East-shore freeways had to be closed for the first time in their histories. The Caldecott Tunnel was closed for weeks after mud and water knocked out its generators.

The Storm of December 22, 1969

The next major storm of note hit Berkeley on December 22, 1969, when 0.98 inches fell in one hour and 2.96 inches fell in a day, setting two records. Flooding occurred at Spenger's and throughout much of West Berkeley as a result of high tides coinciding with the storm. A retaining wall at Co-dornices Tennis Courts crumbled under the weight of the adjoining hill.

One month later, on January 20, 1970, a record 4.37 inches of rain fell in a 24 hour period. Longfellow School was seriously flooded. Rain water backing up the sewer created a reverse flow of water and effluent from the basement toilets, necessitating its evaculation (Berkeley Daily Gazette, January 22, 1970).

The 1981-1982 Season

The record-setting season of 1981 to 1982 will long be remembered for the torrential downpour of January 4, 1982, when 6.98 inches of rain fell, setting an impressive one day and 24 hour record. Damage in Berkeley was widespread. Two hundred homes, several schools, and seemingly every intersection were flooded. The Berkeley Support Services Hotel at Fourth and Harrison Streets closed when water backed up through the sewers and seeped through the walls. Occupants had to be put up at the Red Cross Shelter in Albany at the high school gymnasium (Berkeley Daily Gazette, January 5, 1982). King Jr. High had standing water in the cafeteria, as well as in the counseling complex. Flood waters extinguished the furnace at Longfellow, Franklin and Cragmont Schools (Berkeley Daily Gazette, January 6, 1982). Water damaged books at Columbus School by seeping in through the walls. A lake formed in the Columbus parking lot, much to the satisfaction of the students, who were hoping for a new swimming pool anyway. Fortunately for PG&E, only minor power outages occurred for short periods of time.

Summary

This paper describes the nature and cause of flooding in Berkeley, and provides a chronicle of flood events. Timing of floods coincides with intense rainfall, usually of two inches or greater during a 24 hour period. High tides, coinciding with the storm, often intensify floods in West Berkeley. The basic underlying factors contributing to flooding include man's construction, topography and precipitation. The most common cause for flooding stems from culverts clogging up, either from debris or too much water.

The most outstanding floods took place in February, 1940 and October, 1962. In both cases, culverts unable to carry all the storm runoff caused serious flooding. Therefore, to alleviate the problem, larger culverts need to be put in the trouble spots, which have been identified previously as various locations on Strawberry and Harwood Creek. With these preventive measures, flooding as a recurring problem should lessen.

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State of California – Natural Resources Agency
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GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director

December 2, 2022

Shraddha Navalli Patil, Ph.D.
The Regents of the University of California
300 A&E Building
Berkeley, California 94720
planning@berkeley.edu

Subject: Cal Softball Field Renovation Project, Notice of Preparation of an Environmental Impact Report, SCH No. 202211035, University of California, Berkeley, Alameda County

Dear Shraddha Navalli Patil:

The California Department of Fish and Wildlife (CDFW) reviewed the Notice of Preparation (NOP) of an Environmental Impact Report (EIR) for the Cal Softball Field Renovation Project (Project).

CDFW is providing the University of California, Berkeley (UC Berkeley), as the Lead Agency, with specific detail about the scope and content of the environmental information related to CDFW's area of statutory responsibility that must be included in the EIR (Cal. Code Regs., tit. 14, § 15082, subd. (b)).

CDFW ROLE

CDFW is a **Trustee Agency** with responsibility under the California Environmental Quality Act (CEQA) for commenting on projects that could impact fish, plant, and wildlife resources (Pub. Resources Code, § 21000 et seq.; Cal. Code Regs., tit. 14, § 15386). CDFW is also considered a **Responsible Agency** if a project would require discretionary approval, such as a permit pursuant to the California Endangered Species Act (CESA) or Native Plant Protection Act (NPPA), the Lake and Streambed Alteration (LSA) Program, and other provisions of the Fish and Game Code that afford protection to the State's fish and wildlife trust resources. Pursuant to our authority, CDFW has the following concerns, comments, and recommendations regarding the Project.

PROJECT DESCRIPTION AND LOCATION

The Project proposes to renovate and improve the existing Cal Softball Field. The primary physical changes associated with the Project would include providing additional permanent spectator seats in place of temporary bleachers, a press box, spectator concourse, replacement competition-grade lights, restrooms, public address system, expanded playing field dimensions, team and locker rooms, a ticket booth, improved training facilities (e.g., batting cages), entry plaza, landscaping, sustainable design

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features, access and bus stop improvements, and utilities. The proposed Project would remove approximately 85 parking spaces and retain approximately 25 parking spaces in the existing Witter Lot. The proposed Project also includes the implementation of applicable UC Berkeley's continuing best practices, a game-day transportation demand management plan, and a Project-specific wildfire management plan. The CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) require that the EIR incorporate a full project description, including reasonably foreseeable future phases of the Project, that contains sufficient information to evaluate and review the Project's environmental impact (CEQA Guidelines, §§ 15124 & 15378). Please include a complete description of the following Project components in the Project description:

- Footprints of permanent Project features and temporarily impacted areas, such as staging areas and access routes.
- Area and plans for any proposed buildings/structures, ground disturbing activities, fencing, paving, stationary machinery, landscaping, and stormwater systems.
- Operational features of the Project, including level of anticipated human presence (describe seasonal or daily peaks in activity, if relevant), artificial lighting/light reflection, noise, traffic generation, and other features.
- Construction schedule, activities, equipment, and crew sizes.

REGULATORY AUTHORITY

California Endangered Species Act and Native Plant Protection Act

Please be advised that a CESA Incidental Take Permit (ITP) must be obtained if the Project has the potential to result in "take" of plants or animals listed under CESA or NPPA, either during construction or over the life of the Project. Issuance of a CESA ITP is subject to CEQA documentation; the CEQA document must specify impacts, mitigation measures, and a mitigation monitoring and reporting program. If the Project will impact CESA listed species early consultation is encouraged, as significant modification to the Project and mitigation measures may be required in order to obtain a CESA ITP.

CEQA requires a Mandatory Finding of Significance if a project is likely to substantially restrict the range or reduce the population of a threatened or endangered species (Pub. Resources Code, §§ 21001, subd. (c) & 21083; CEQA Guidelines, §§ 15380, 15064, and 15065). Impacts must be avoided or mitigated to less-than-significant levels unless the CEQA Lead Agency makes and supports Findings of Overriding Consideration (FOC). The CEQA Lead Agency's FOC does not eliminate the Project proponent's obligation to comply with CESA.

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Nesting Birds

CDFW also has authority over actions that may disturb or destroy active nest sites or take birds. Fish and Game Code sections 3503, 3503.5, and 3513 protect birds, their eggs, and nests. Migratory birds are also protected under the federal Migratory Bird Treaty Act.

Fully Protected Species

Fully Protected species may not be taken or possessed at any time except for collecting these species for necessary scientific research, relocation of the bird species for the protection of livestock, or if they are a covered species whose conservation and management is provided for in a Natural Community Conservation Plan (Fish & G. Code, §§ 3511, 4700, 5050, & 5515).

Lake and Streambed Alteration Agreement

CDFW will require an LSA Notification, pursuant to Fish and Game Code sections 1600 et. seq. for Project activities affecting lakes or streams and associated riparian habitat. Notification is required for any activity that will substantially divert or obstruct the natural flow; change or use material from the bed, channel, or bank including associated riparian or wetland resources; or deposit or dispose of material where it may pass into a river, lake or stream. Work within ephemeral streams, washes, watercourses with a subsurface flow, and floodplains are subject to notification requirements. CDFW, as a Responsible Agency under CEQA, will consider the CEQA document for the Project. CDFW may not execute the final LSA Agreement until it has complied with CEQA as a Responsible Agency.

ENVIRONMENTAL SETTING

The EIR should provide sufficient information regarding the environmental setting ("baseline") to understand the Project's, and its alternative's (if applicable), potentially significant impacts on the environment (CEQA Guidelines, §§ 15125 & 15360).

CDFW recommends that the CEQA document prepared for the Project provide baseline habitat assessments for special-status plant, fish and wildlife species located and potentially located within the Project area and surrounding lands, including but not limited to all rare, threatened, or endangered species (CEQA Guidelines, § 15380). The EIR should describe aquatic habitats, such as wetlands or waters of the U.S. or State, and any sensitive natural communities or riparian habitat occurring on or adjacent to the Project site (for sensitive natural communities see: https://wildlife.ca.gov/Data/VegCAMP/NaturalCommunities#sensitive%20natural%20communities), and any stream or wetland set back distances the University may require. Fully protected, threatened or endangered, candidate, and other special-status species

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and sensitive natural communities that are known to occur, or have the potential to occur in or near the Project site, include but are not limited to the State and federally threatened Alameda whipsnake (*Masticophis laterlis euryxanthus*). If take of Alameda whipsnake cannot be completely avoided, CDFW recommends that the Project proponent obtain take authorization through an ITP issued by CDFW pursuant to Fish and Game Code Section 2081(b).

Please be advised that the Fish and Game Commission recently accepted the mountain lion (*Felis concolor*) Central Coast North Evolutionarily Significant Unit as a State candidate for listing as threatened under CESA. CDFW recommends avoiding impacts to areas that provide habitat for mountain lion and other sensitive species.

Habitat descriptions and the potential for species occurrence should include information from multiple sources: aerial imagery, historical and recent survey data, field reconnaissance, scientific literature and reports, U.S. Fish and Wildlife Service's (USFWS) Information, Planning, and Consultation System, and findings from "positive occurrence" databases such as California Natural Diversity Database (CNDDB). Based on the data and information from the habitat assessment, the EIR should adequately assess which special-status species are likely to occur on or near the Project site, and whether they could be impacted by the Project.

CDFW recommends that prior to Project implementation, surveys be conducted for special-status species with potential to occur, following recommended survey protocols if available. Survey and monitoring protocols and guidelines are available at: https://www.wildlife.ca.gov/Conservation/Survey-Protocol.

Botanical surveys for special-status plant species, including those with a California Rare Plant Rank (http://www.cnps.org/cnps/rareplants/inventory/), must be conducted during the blooming period within the Project area and adjacent habitats that may be indirectly impacted by, for example, changes to hydrological conditions, and require the identification of reference populations. More than one year of surveys may be necessary based on environmental conditions. Please refer to CDFW protocols for surveying and evaluating impacts to special status plants available at: https://www.wildlife.ca.gov/Conservation/Plants.

IMPACT ANALYSIS AND MITIGATION MEASURES

The EIR should discuss all direct and indirect impacts (temporary and permanent) that may occur with implementation of the Project (CEQA Guidelines, § 15126.2). This includes evaluating and describing impacts such as:

- Land use changes that would reduce open space or agricultural land uses and increase residential or other land use involving increased development;

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- Encroachments into riparian habitats, wetlands or other sensitive areas;
- Potential for impacts to special-status species;
- Loss or modification of breeding, nesting, dispersal and foraging habitat, including vegetation removal, alternation of soils and hydrology, and removal of habitat structural features (e.g., snags, roosts, vegetation overhanging banks);
- Permanent and temporary habitat disturbances associated with ground disturbance, noise, lighting, reflection, air pollution, traffic or human presence; and
- Obstruction of movement corridors, fish passage, or access to water sources and other core habitat features.

The EIR should also identify reasonably foreseeable future projects in the Project vicinity, disclose any cumulative impacts associated with these projects, determine the significance of each cumulative impact, and assess the significance of the Project's contribution to the impact (CEQA Guidelines, §15355). Although a project's impacts may be insignificant individually, its contributions to a cumulative impact may be considerable; a contribution to a significant cumulative impact – e.g., reduction of available habitat for a special-status species – should be considered cumulatively considerable without mitigation to minimize or avoid the impact.

Based on the comprehensive analysis of the direct, indirect, and cumulative impacts of the Project, the CEQA Guidelines direct the lead agency to consider and describe all feasible mitigation measures to avoid potentially significant impacts in the EIR, and/or mitigate significant impacts of the Project on the environment (CEQA Guidelines, §§ 15021, 15063, 15071, 15126.2, 15126.4 & 15370). This includes a discussion of impact avoidance and minimization measures for special-status species, which are recommended to be developed in early consultation with CDFW and USFWS. These measures can then be incorporated as enforceable Project conditions to reduce potential impacts to biological resources to less-than-significant levels.

ENVIRONMENTAL DATA

CEQA requires that information developed in EIRs and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations (Pub. Resources Code, § 21003, subd. (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to CNDDB. The CNNDB online field survey form and other methods for submitting data can be found at the following link: https://wildlife.ca.gov/Data/CNDDB/Submitting-Data. The types of information reported to CNDDB can be found at the following link: https://wildlife.ca.gov/Data/CNDDB/Plantsand-Animals.

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FILING FEES

CDFW anticipates that the Project will have an impact on fish and/or wildlife, and assessment of filing fees is necessary (Fish & G. Code, § 711.4; Pub. Resources Code, § 21089). Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW.

Questions regarding this letter or further coordination should be directed to Marcia Grefsrud, Environmental Scientist, at (707) 644-2812 or Marcia.Grefsrud@wildlife.ca.gov; or Brenda Blinn, Senior Environmental Scientist (Supervisory), at (707) 339-0334, or Brenda.Blinn@wildlife.ca.gov.

Sincerely,

DocuSigned by:
Erin Chappell
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Erin Chappell
Regional Manager
Bay Delta Region

ec: State Clearinghouse # 202211035

APPENDIX B

University Continuing Best Practices

Appendix B
University Continuing Best Practices

Continuing best practices (CBPs) represent actions that UC Berkeley will continue to implement on an ongoing basis. This appendix indicates which CBPs are applicable to the project components evaluated in this EIR. As shown in the table below, this appendix also identifies the following information:

- The party responsible for implementing the CBPs;
- The timing for implementation of CBPs;
- The agency responsible for monitoring the implementation; and
- The monitoring action and frequency.

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
Aesthetics (AES)						
CBP AES-1: New projects will as a general rule conform to the Physical Design Framework. While the guidelines in the Physical Design Framework would not preclude alternate design concepts when such concepts present the best solution for a particular site, UC Berkeley will not depart from the Physical Design Framework except for solutions of extraordinary quality.	●	Capital Projects and future project architects	Prior to final design approval	Project Manager, Capital Projects	Review project proposals for conformance to Physical Design Framework	Ongoing during project development and review
CBP AES-2: Major new campus projects will continue to be reviewed at each stage of design by the UC Berkeley Design Review Committee. The provisions of the LRDP, as well as project-specific design guidelines prepared for each such project, will guide these reviews.	●	UC Berkeley Design Review Committee	During project design	Campus Architect	Review major new campus projects	At least once during each stage of design
CBP AES-3: To the extent feasible, UC Berkeley will enhance the visual quality of mapped high fire risk zones by focusing fuel management practices that promote landscape resilience, native habitats, and biodiversity.	–	Hill Campus Fire Mitigation, Facilities Services	Prior to fuel management activities	Director of Campus Operations, Facilities Services	Confirm focus on landscape resilience, native habitats, and biodiversity	Ongoing during planning for fuel management practices
CBP AES-4: UC Berkeley will make informational presentations of major projects in the city environs of the Cities of Berkeley and Oakland, and the Clark Kerr Campus, to the relevant city commission(s) and board(s). Relevant commissions and boards, to be determined jointly by the Campus Architect and appropriate City Planning Director, may include the Berkeley Zoning Adjustments Board and Berkeley Landmarks Preservation Commission. Major projects in the Hill Campus East within the city of Oakland may also be presented to relevant City of Oakland boards or commissions, after consultation and mutual agreement between those agencies and UC Berkeley. Major projects may include new construction or redevelopment projects with substantial community interest as determined by UC Berkeley. Whenever a major project in the city environs or Clark Kerr Campus is under consideration, the Campus Architect may invite the appropriate city planning director or their designee	–	Physical & Environmental Planning	Prior to project approval	Campus Architect	Attend meeting(s)	At least once prior to approval of each major project in the city environs

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
to attend and comment on the project at the UC Berkeley Design Review Committee.						
CBP AES-5: UC Berkeley will assess each individual project built in the City Environs Properties to determine whether it could pose potential significant aesthetic impacts not anticipated in the LRDP, for projects that are not exempt from aesthetics analysis pursuant to Public Resources Code Section 21099. If the project could pose potential significant aesthetic impacts as noted above, the project would be subject to further evaluation under the California Environmental Quality Act.	–	Physical & Environmental Planning	Prior to CEQA review	Campus Architect	Confirm appropriate level of CEQA review is conducted	Once for each project in the City Environs Property
CBP AES-6: Lighting for new development projects will be designed to include shields and cut-offs that minimize light spillage onto unintended surfaces and minimize atmospheric light pollution. The only exception to this principle will be in those areas where such features would be incompatible with the visual and/or historic character of the area.	●	Capital Projects and future project architects	Prior to CEQA review or, for projects that do not require CEQA review, prior to final design approval	Campus Architect	Review lighting plans and specifications	Once for each project
CBP AES-7: As part of UC Berkeley's design review procedures, light and glare will be given specific consideration and measures will be incorporated into the project design to minimize both. In general, exterior surfaces will not be reflective; architectural screens and shading devices are preferable to reflective glass.	●	UC Berkeley Design Review Committee	During design review	Campus Architect	Confirm incorporation of measures to minimize light and glare	Once for each project
Air Quality (AQ)						
CBP AIR-1: UC Berkeley will continue to implement the same or equivalent transportation programs as currently exist, that strive to reduce the use of single-occupant and/or greenhouse gas emitting (internal combustion engine) vehicles by students, staff, faculty, and visitors to the UC Berkeley campus.	–	Parking & Transportation	Ongoing	Director of Parking & Transportation	Confirm implementation of programs	Annual

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

CBP AIR-2: UC Berkeley will continue to comply with the current Bay Area Air Quality Management District basic control measures for fugitive dust control. The requirement to comply with the basic control measures will be identified in construction bids. The Bay Area Air Quality Management District's current basic control measures include: ▪ Water all active construction areas at least twice daily, or as often as needed to control dust emissions. Watering should be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour. Reclaimed water will be used whenever possible. ▪ Pave, apply water twice daily or as often as necessary to control dust, or apply (nontoxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites. ▪ Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard (i.e., the minimum required space between the top of the load and the top of the trailer). ▪ Sweep daily (with water sweepers using reclaimed water if possible) or as often as needed all paved access roads, parking areas and staging areas at the construction site to control dust. ▪ Sweep public streets daily (with water sweepers using reclaimed water if possible) in the vicinity of the project site, or as often as needed, to keep streets free of visible soil material. ▪ Hydroseed or apply nontoxic soil stabilizers to inactive construction areas. ▪ Enclose, cover, water twice daily, or apply nontoxic soil binders to exposed stockpiles (dirt, sand, etc.). ▪ Limit vehicle traffic speeds on unpaved roads to 15 miles per hour. ▪ Replant vegetation in disturbed areas as quickly as possible.	●	Future project contractors	During construction	Director of Campus Building Department	Confirm incorporation of measures in construction bids	Once for each project
CBP AIR-3: UC Berkeley will continue to implement the following control measures to reduce emissions of	●	Future project contractors	During construction	Director of Campus Building Department and	Confirm compliance through	During regular site inspections

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
diesel particulate matter and ozone precursors from construction equipment exhaust: ▪ Equipment will be properly serviced and maintained in accordance with the manufacturer's recommendations. ▪ Construction contractors will also ensure that all nonessential idling of construction equipment is restricted to five minutes or less, in compliance with Section 2449 of the California Code of Regulations, Title 13, Article 4.8, Chapter 9.				Office of Environment, Health & Safety	documentation review and during site inspections	
Biological Resources (BIO)						
CBP BIO-1: Avoid disturbance or removal of bird nests protected under the federal Migratory Bird Treaty Act and California Department of Fish and Game Code when in active use. This will be accomplished by taking the following steps. ▪ If tree removal and initial construction is proposed during the nesting season (February 1 to August 31), a focused survey for nesting raptors and other migratory birds will be conducted by a qualified biologist within 14 days prior to the onset of tree and vegetation removal in order to identify any active nests on the site and surrounding area within up to 500 feet of proposed construction, with the distance to be determined by a qualified biologist based on project location. The site will be resurveyed to confirm that no new nests have been established if vegetation removal and demolition has not been completed or if construction has been delayed or stopped for more than seven consecutive days during the nesting season. ▪ If no active nests are identified during the construction survey period, or development is initiated during the non-breeding season (September 1 to January 31), tree and vegetation removal and building construction may proceed with no restrictions.	●	Consulting biologist	Prior to vegetation removal, demolition, and/or construction	Office of Physical & Environmental Planning	Review and approve report of findings	Once for each project

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
▪ If bird nests are found, an adequate setback will be established around the nest location and vegetation removal, building demolition, and other construction activities shall be restricted within this no-disturbance zone until the qualified biologist has confirmed that birds have either not begun egg-laying and incubation, or that the juveniles from those nests are foraging independently and capable of survival outside the nest location. Required setback distances for the no-disturbance zone will be based on input received from the California Department of Fish and Wildlife and may vary depending on species and sensitivity to disturbance. As necessary, the no-disturbance zone will be fenced with temporary orange construction fencing if construction is to be initiated on the remainder of the site. ▪ A report of findings will be prepared by the qualified biologist and submitted to the UC Berkeley's Office of Physical & Environmental Planning for review and approval prior to initiation of vegetation removal, building demolition and other construction activities during the nesting season. The report will either confirm absence of any active nests or confirm that any young are located within a designated no-disturbance zone and construction can proceed. No report of findings is required if vegetation removal and other construction activities are initiated during the non-nesting season and continue uninterrupted according to the above criteria.						
CBP BIO-2: Avoid remote potential for direct mortality of special-status bats and destruction of maternal roosts. A preconstruction roosting survey for special-status bat species, covering the project construction site and any affected buildings, will be conducted during the months of March through August prior to commencement of any project that may impact suitable maternal roosting habitat on the Campus Park, the Hill Campus East, and	●	Consulting biologist	Prior to activities that could impact suitable roosting habitat (as defined in CBP BIO-2)	Project Manager, Capital Projects and Office of Physical & Environmental Planning	Review and approve report of findings	Once for each project

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
other UC Berkeley properties with suitable roosting habitat, as defined below. The survey will be conducted by a qualified biologist no more than 30 days prior to initiation of disturbance to potential roosting habitat. In the Hill Campus East, surveys will be conducted for new construction projects prior to grading, vegetation removal, and remodel or demolition of buildings with isolated attics and other suitable roosting habitat, as defined below. Suitable roosting habitat shall be determined as follows: In the Campus Park and other urbanized UC Berkeley properties, surveys will be conducted for construction projects prior to remodel or demolition of buildings with isolated attics. A report of findings will be prepared by the qualified biologist and submitted to the UC Berkeley project manager for review and approval prior to initiation of grading, vegetation removal, or construction activities. If any maternal roosts are detected during the months of March through August, construction activities will either stop or continue only after the roost is protected by an adequate setback approved by a qualified biologist. To the full extent feasible, the maternal roost location will be preserved, and alteration will only be allowed if a qualified biologist verifies that bats have completed rearing young, that the juveniles are foraging independently and capable of survival, and bats have been subsequently passively excluded from the roost location.						
CBP BIO-3: During planning and feasibility studies prior to development of specific projects or adoption of management plans in the Hill Campus East, a habitat assessment will be conducted by a qualified biologist to assess any potential impacts on special-status species. Detailed surveys will be conducted where necessary to confirm presence or absence of any special-status species. Where required to avoid a substantial adverse effect on such species, in consultation with the California Department of Fish and Wildlife or the United States Fish and Wildlife Service as appropriate	–	Consulting biologist	During planning and feasibility studies for projects and management plans in Hill Campus East	Office of Physical & Environmental Planning and Office of Environment, Health & Safety	Confirm surveys and, if required, agency consultation	Once for each project

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depending on the particular species, feasible changes to schedule, siting, and design of projects or management plans, or other measures developed in consultation with the California Department of Fish or Wildlife or the United States Fish and Wildlife Service, will be developed and implemented.						
CBP BIO-4: Future development projects will be designed to avoid substantial adverse effects on riparian habitat or sensitive natural communities. The Strawberry Creek Management Plan will continue to be revised and implemented, in consultation with the California Department of Fish and Wildlife, to include recommendations for habitat restoration and enhancement along specific segments of the creek on both the Campus Park and the Hill Campus East. This will include minimum development setbacks, targets on invasive species controls, appropriate native plantings, and in-channel habitat improvements such as retention of large woody debris and creation of deep plunge pools.	–	Environmental Protection Specialist, Office of Environment, Health & Safety	Ongoing	Environmental Protection Manager, Office of Environment, Health & Safety	Confirm ongoing implementation of Strawberry Creek Management Plan	Annual
CBP BIO-5: During planning and feasibility studies prior to development of specific projects or implementation of management plans in the Hill Campus East, a habitat assessment will be conducted by a qualified biologist to identify and minimize potential impacts on riparian habitat, freshwater seeps, native grasslands, and other sensitive natural communities. Detailed surveys will be conducted at appropriate times where necessary to confirm and map the extent of any sensitive natural communities. A report of findings will be prepared by the qualified biologist and submitted to the UC Berkeley project manager for review and consideration as part of site planning and, when applicable, further environmental review. Where required to avoid a substantial adverse effect on such communities, in consultation with the California Department of Fish and Wildlife, feasible changes to schedule, siting, and design of projects or management plans will be developed and implemented. This may include creating	–	Consulting biologist	During planning and feasibility studies for projects and management plans in Hill Campus East	Project Manager, Capital Projects and Office of Physical & Environmental Planning	Confirm surveys and, if required, agency consultation	Once for each project

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replacement habitat, enhancing and protecting similar habitat types in alternative locations, or some combination of mitigation to ensure no net reduction in acreage and value of the affected sensitive natural community type.						
CBP BIO-6: Proposed projects on the Campus Park and the Hill Campus East will be designed to avoid designated jurisdictional wetlands and waters along the Strawberry Creek channel. When a project has the potential to affect jurisdictional waters, wetlands will be mapped and the extent of jurisdictional waters verified by the U.S. Army Corps of Engineers during planning and feasibility studies prior to development of specific projects or implementation of management plans in the Hill Campus East. Any modifications to Strawberry Creek and other jurisdictional waters will be coordinated with jurisdictional agencies, including the California Department of Fish and Wildlife, U.S. Army Corps of Engineers, and Regional Water Quality Control Board, as necessary, with any necessary authorizations secured in advance. Where avoidance of designated jurisdictional wetlands and waters is infeasible, appropriate mitigation will be developed and implemented in accordance with applicable State and federal regulations.	–	Consulting biologist and Environmental Protection Specialist, Office of Environment, Health & Safety	During project design	Environmental Protection Manager, Office of Environment, Health & Safety	Confirm wetland mapping and, if required, agency consultation	Once for each project
CBP BIO-7: Proposed projects in the Hill Campus East will be designed to avoid obstructing important wildlife corridors to the full feasible extent. Before any new fencing is installed for security purposes, UC Berkeley will consider the effect of such fencing on opportunities for wildlife movement, and will avoid new or expanded fencing which would obstruct important movement corridors. If fencing is deemed necessary in an important movement corridor, UC Berkeley will explore fencing options that allow for wildlife movement.	–	Capital Projects and Facilities Services	During project design, prior to installation of fencing	Office of Physical & Environmental Planning	Review project plans for compliance	Once for each project
CBP BIO-8: During planning and feasibility studies prior to development of specific projects or implementation of management plans in the Hill Campus East, a habitat	–	Consulting biologist	During planning and feasibility	Project Manager, Capital Projects and Office of	Review and approve report of findings	Once for each project

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assessment will be conducted by a qualified biologist to identify and minimize potential impacts on wildlife movement opportunities, including avoidance of new fencing across Strawberry Creek and tributary drainages. A report of findings will be prepared by the qualified biologist and submitted to the UC Berkeley project manager for review and approval prior to initiation of grading, vegetation removal, or construction activities.			studies for projects and management plans in Hill Campus East	Physical & Environmental Planning		
CBP BIO-9: Adverse effects to specimen trees and plants will be avoided. UC Berkeley will continue to implement the Campus Specimen Tree Program to reduce effects to specimen trees and flora. Replacement landscaping will be provided where specimen resources are adversely affected, either through salvage and transplanting of existing trees and shrubs or through new horticulturally appropriate replacement plantings, as directed by the Campus Landscape Architect.	●	Consulting landscape architect or Campus Landscape Architect	During landscape planning	Campus Architect	Review landscaping plans	Once for each project that includes landscape plans
CBP BIO-10: Implementation of the recommendations of the Landscape Master Plan and subsequent updates, and project-specific design guidelines, will provide for stewardship of existing landscaping, and use of replacement and expanded tree and shrub plantings to improve the important open space characteristics and resilience of the Campus Park. Native plantings and horticulturally appropriate species will continue to be used in future landscaping, serving to partially replace any trees lost as a result of development.	–	Consulting landscape architect or Campus Landscape Architect	During landscape planning	Campus Architect	Review landscaping plans	Once for each project that includes landscape plans
CBP BIO-11: Trees and other vegetation require routine maintenance. As trees age and become senescent, UC Berkeley will continue to undertake trimming, thinning, or removal, particularly if trees become a safety hazard. Vegetation in the Hill Campus East requires continuing management for fire safety, emergency evacuation, habitat enhancement, and other objectives. This may include removal of mature trees such as native live oaks and non-native plantings of eucalyptus and pine.	–	Landscape Supervisor, Facilities Services	Ongoing during regular vegetation maintenance	Director of Campus Operations, Facilities Services	Confirm vegetation maintenance during regular site inspections and conformance with Landscape Master Plan and	Ongoing

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The Landscape Master Plan, Landscape Heritage Plan and their subsequent updates will provide guidance on potential species to replace trees that are removed, where appropriate.					Landscape Heritage Plan	
Cultural Resources (CULT)						
CBP CUL-1: UC Berkeley will follow the procedures of conduct following the discovery of human remains that have been mandated by Health and Safety Code Section 7050.5, Public Resources Code Section 5097.98 and the California Code of Regulations Section 15064.5(e) (California Environmental Quality Act [CEQA]). According to the provisions in CEQA, if human remains are encountered at the site, all work in the immediate vicinity of the discovery shall cease and necessary steps to ensure the integrity of the immediate area shall be taken. The County Coroner shall be notified immediately. The Coroner shall then determine whether the remains are Native American. If the Coroner determines the remains are Native American, the Coroner shall notify the California Native American Heritage Commission (NAHC) within 24 hours, who will, in turn, notify the person the NAHC identifies as the Most Likely Descendant (MLD) of any human remains. Further actions shall be determined, in part, by the desires of the MLD. The MLD has 48 hours to make recommendations regarding the disposition of the remains following notification from the NAHC of the discovery. If the NAHC is unable to identify an MLD, the MLD fails to make a recommendation within 48 hours after being notified, or the landowner rejects the recommendation of the MLD, and mediation by the NAHC fails to provide measures acceptable to the landowner, the owner shall, with appropriate dignity, reinter the remains in an area of the property secure from further disturbance.	●	Project construction crews and County Coroner	During construction	Project Manager, Capital Projects and Office of Physical & Environmental Planning	Confirm conformance during regular site inspections	During regular site inspections
Geology and Soils (GEO)						

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CBP GEO-1: UC Berkeley will continue to comply with the California Building Code and the University of California Seismic Safety Policy.	●	Campus Building Department	Prior to construction	Director of Campus Building Department	Review building plans	Once for each project
CBP GEO-2: Site-specific geotechnical studies will be conducted under the supervision of a California Registered Certified Engineering Geologist or licensed geotechnical engineer and UC Berkeley will incorporate recommendations for geotechnical hazard prevention and abatement into project design.	●	Consulting geologist or engineer	Prior to project approval	Project Manager, Capital Projects	Confirm studies	Once for each project
CBP GEO-3: The UC Berkeley Seismic Review Committee will continue to review all seismic and structural engineering design for new and renovated existing buildings on campus.	●	UC Berkeley Seismic Review Committee	Prior to project approval	Director of Capital Projects	Confirm review	Once for each project
CBP GEO-4: UC Berkeley will continue to use site-specific seismic ground motions for analysis and design of campus projects. Site-specific ground motions provide more current geo-seismic data than the U.S. Geological Survey (USGS) and are used for performance-based analyses.	●	Consulting geologist or engineer	Prior to project approval	Project Manager, Capital Projects	Confirm studies	Once for each project
CBP GEO-5: UC Berkeley will continue to comply with the UC Seismic Safety Policy. Through this program, UC Berkeley will continue to identify buildings in need of upgrades and include seismic improvements as part of its Capital Financial Plan.	●	Project Manager, Capital Projects	Ongoing	Director of Capital Projects	Review Capital Financial Plan for inclusion of upgrades and improvements	Annual
CBP GEO-6: UC Berkeley will continue to implement programs and projects in emergency planning, training, response, and recovery. Each campus Building Coordinator will prepare, and update as needed, building response plans and coordinate education and planning for all building occupants.	●	Building Coordinators	Ongoing	Director of Office of Emergency Management	Confirm building response plans, education, and planning	Ongoing

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CBP GEO-7: As stipulated in the UC Seismic Safety Policy, the design parameters for specific site peak acceleration and structural reinforcement will be determined by the geotechnical and structural engineer for each new or rehabilitation project proposed under the LRDP. The acceptable level of actual damage that could be sustained by specific structures will be calculated based on geotechnical information obtained at the specific building site.	●	Consulting geologist or engineer	Prior to project approval	Project Manager, Capital Projects	Confirm studies	Once for each project
CBP GEO-8: Site-specific geotechnical studies will include an assessment of landslide hazard, including seismic vibration and other factors contributing to slope stability.	●	Consulting geologist or engineer	Prior to project approval	Project Manager, Capital Projects	Confirm studies	Once for each project
CBP GEO-9: Campus construction projects must comply with the Campus Design Standards, which contain regulatory and other campus requirements for construction-phase and post-construction stormwater management.	●	Capital Projects	Prior to construction	Director of Campus Building Department	Review building plans	Once for each project
CBP GEO-10: In the event that a unique paleontological resource is identified during project planning or construction, the work will stop immediately in the area of effect, and the find will be protected until its significance can be determined by a qualified paleontologist. If the resource is determined to be a "unique resource," a mitigation plan will be formulated pursuant to guidelines developed by the Society of Vertebrate Paleontology and implemented to appropriately protect the significance of the resource by preservation, documentation, and/or removal, prior to recommencing activities in the area of effect. The plan will be prepared by the qualified paleontologist and submitted to the UC Berkeley project manager for review and approval prior to initiation or recommencement of construction activities in the area of effect.	●	Project construction crews and qualified paleontologist	During construction	Project Manager, Capital Projects and Office of Physical & Environmental Planning	Confirm conformance during regular site inspections and, if required, review and approve mitigation plan	During regular site inspections

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Hazards and Hazardous Materials (HAZ)						
CBP HAZ-1: UC Berkeley will continue to implement the same (or equivalent) health and safety plans, programs, practices, and procedures related to the use, storage, disposal, or transportation of hazardous materials and wastes (including chemical, radioactive, and biohazardous materials and waste) during the LRDP planning horizon. These include, but are not limited to: ▪ Requirements for safe transportation of hazardous materials ▪ UC Berkeley Office of Environment, Health & Safety training programs and oversight ▪ The Hazard Communication Program ▪ Publication and promulgation of the Water Protection Policy, the drain disposal guidelines, the Wastewater Toxics Management Plan, and the Slug Control Plan ▪ Requirements that laboratories have Chemical Hygiene Plans and a chemical inventory database ▪ The Aboveground Storage Tank Spill Prevention Control and Countermeasure Plan and monitoring of underground storage tanks ▪ Implementation of the hazardous waste disposal program and policies ▪ The Green Labs Program ▪ The Biosafety Program ▪ The Medical Waste Management Program ▪ The Laser Safety Program ▪ The Radiation Safety Program ▪ The Drain Disposal Restrictions These programs may be subject to modification as regulations or UC Berkeley policies are developed or if the programs become obsolete through replacement by other programs that incorporate similar or more effective health and safety protection measures.	–	UC Berkeley (various departments)	Ongoing	Executive Director of Office of Environment, Health & Safety	Confirm continued implementation of programs and procedures	Annual

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However, any modifications must incorporate similar or more effective health and safety protection measures.						
CBP HAZ-2: UC Berkeley will continue to implement the same (or equivalent) programs related to laboratory animal use during the LRDP planning horizon, including, but not necessarily limited to, compliance with United States Public Health Service Regulations, the National Research Council Guide for the Care and Use of Laboratory Animals, and Animal Welfare Act regulations. These programs may be subject to modification as more stringent standards are developed or if the programs become obsolete through replacement by other programs that incorporate similar or more effective health and safety protection measures.	–	UC Berkeley (various departments)	Ongoing	Biosafety Officer, Office of Environment, Health & Safety	Confirm continued implementation of programs	Annual
CBP HAZ-3: UC Berkeley will continue to implement the same (or equivalent) programs related to transgenic materials use during the LRDP planning horizon, including, but not necessarily limited to, compliance with the National Institute of Health Guidelines for Research Involving Recombinant DNA Molecules, United States Department of Agriculture requirements for open-field-based research involving transgenic plants, and requiring registration with the UC Berkeley Office of Environment, Health & Safety for all research involving transgenic plants. These programs may be subject to modification as more stringent standards are developed or if the programs become obsolete through replacement by other programs that incorporate similar or more effective health and safety protection measures.	–	UC Berkeley (various departments)	Ongoing	Biosafety Officer, Office of Environment, Health & Safety	Confirm continued implementation of programs	Annual
CBP HAZ-4: UC Berkeley will continue to perform hazardous materials surveys prior to capital projects in existing UC Berkeley buildings. UC Berkeley will continue to comply with federal, State, and local regulations governing the abatement and handling of hazardous building materials and each project will address this requirement in all construction.	●	Office of Environment, Health & Safety	Prior to construction	Project Manager, Capital Projects	Confirm surveys and review construction documents	Once for each project

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CBP HAZ-5: UC Berkeley will continue to perform site histories and due diligence assessments of all sites where ground-disturbing construction is proposed, to assess the potential for soil and groundwater contamination resulting from past or current site land uses at the site or in the vicinity. The investigation will include review of regulatory records, historical maps and other historical documents, and inspection of current site conditions. UC Berkeley will act to protect the health and safety of workers or others potentially exposed should hazardous site conditions be found.	●	Office of Environment, Health & Safety	Prior to construction	Project Manager, Capital Projects	Confirm investigations	Once for each project
Hydrology and Water Quality (HYD)						
CBP HYD-1: During the plan check review process and construction phase monitoring, UC Berkeley Office of Environment, Health & Safety will review each development project to determine whether project runoff would increase pollutant loading and verify that the proposed project complies with all applicable requirements (e.g., Regional Water Quality Control Board and Campus Design Standards requirements) and best management practices (e.g., those described in the California Stormwater Quality Association's Construction BMP Handbook).	●	Office of Environment, Health & Safety	During plan check review and construction monitoring	Environmental Specialist, Office of Environment, Health & Safety	Confirm review	Once for each project
CBP HYD-2: UC Berkeley will continue implementing an urban runoff management program containing best management practices, as published in the Strawberry Creek Management Plan, and as developed through the Stormwater Permit Annual Reports completed for the Phase II municipal separate storm sewer system (MS4) permit. UC Berkeley will continue to comply with the MS4 stormwater permitting requirements by implementing construction and post-construction control measures and best management practices required by project-specific Stormwater Pollution Prevention Plans (SWPPPs) and by the Phase II MS4 permit to control pollution. SWPPPs will be prepared by the project contractor as required to prevent discharge of pollutants and to minimize sedimentation resulting	●	Office of Environment, Health & Safety	Ongoing	Environmental Protection Manager, Office of Environment, Health & Safety	Confirm SWPPPs	Once for each project

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from construction and the transport of soils by construction vehicles.						
CBP HYD-3: UC Berkeley will maintain a campuswide educational program regarding safe use and disposal of facilities maintenance chemicals and laboratory chemicals to prevent the discharge of these pollutants to Strawberry Creek and campus storm drains.	–	Office of Environment, Health & Safety	Ongoing	Executive Director of Office of Environment, Health & Safety	Confirm program implementation	Ongoing
CBP HYD-4: Where feasible, parking will be built in covered parking structures and not exposed to rain to address potential stormwater runoff pollutant loads.	–	Office of Physical & Environmental Planning	Prior to project approval	Project Manager, Capital Projects and Senior Planner, Office of Physical & Environmental Planning	Review building plans	Once for each project
CBP HYD-5: Landscaped areas of development sites will be designed to absorb runoff from rooftops and walkways. Open or porous paving systems will be included in project designs, where feasible, to minimize impervious surfaces and absorb runoff.	●	Capital Projects	Prior to project approval	Project Manager, Capital Projects	Review building plans	Once for each project
CBP HYD-6: UC Berkeley will continue to develop and implement the recommendations of the Strawberry Creek Management Plan and its updates, and construct improvements as appropriate. These recommendations include, but are not limited to, minimization of the amount of land exposed at any one time during construction as feasible; use of temporary vegetation or mulch to stabilize critical areas where construction staging activities must be carried out prior to permanent cover of exposed lands; installation of permanent vegetation and erosion control structures as soon as practical; protection and retention of natural vegetation; and implementation of post-construction structural and non-structural water quality control techniques.	●	Capital Projects	During construction	Director of Campus Building Department	Review construction documents	Once for each project
CBP HYD-7: UC Berkeley will continue to review each development project, to determine whether rainwater infiltration to groundwater is affected. If it is determined that existing infiltration rates would be adversely affected, UC Berkeley will design and implement the	●	Project Manager, Capital Projects	Prior to construction	Director of Campus Building Department and Environmental Specialist, Office	Review construction documents	Once for each project

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necessary improvements to retain and infiltrate stormwater. Such improvements could include retention basins to collect and retain runoff, grassy swales, infiltration galleries, planter boxes, permeable pavement, or other retention methods. The goal of the improvement should be to ensure that there is no net decrease in the amount of water recharged to groundwater that serves as freshwater replenishment to Strawberry Creek. The improvement should maintain the volume of flows and times of concentration from any given site at pre-development conditions.				of Environment, Health & Safety		
CBP HYD-8: Dewatering, when needed, will be monitored and maintained by qualified engineers in compliance with the Campus Design Standards and applicable regulations.	●	Consulting engineers	During construction	Director of Campus Building Department	Confirm monitoring and maintenance	Once for each project
CBP HYD-9: The campus storm drain system will be maintained and cleaned to accommodate existing runoff.	–	Campus Operations, Facilities Services	Ongoing	Director of Campus Operations, Facilities Services	Confirm maintenance	Ongoing
CBP HYD-10: For projects in the City Environs Properties that affect drainage systems or patterns, improvements will be coordinated with the City of Berkeley's Public Works Department.	–	Capital Projects	Prior to construction	Project Manager, Capital Projects	Confirm coordination	Once for each project
CBP HYD-11: Development that encroaches on creek channels and riparian zones will be prohibited. An undisturbed buffer zone will be maintained between proposed capital projects and creek channels.	–	Capital Projects	Prior to project approval	Project Manager, Capital Projects	Review building plans	Once for each project

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CBP HYD-12: UC Berkeley will continue to develop and implement a maintenance program for Strawberry Creek, as described in the Strawberry Creek Management Plan and its updates. Actions will include, but not be limited to: clear trash racks, catch basins, channels, ponds, bridges, and over-crossing structures of debris that could block flows and increase flooding potential in Strawberry Creek and its tributaries within the LRDP Planning Area. Cleaning of debris in creek channels will be done during storm events and prior to the start of the rainy season as part of routine campus grounds maintenance.	–	Campus Operations, Facilities Services	Ongoing	Director of Campus Operations, Facilities Services	Confirm maintenance	Ongoing
CBP HYD-13: UC Berkeley will continue to manage runoff into storm drain systems such that the aggregate effect of projects implemented pursuant to the LRDP creates no net increase in runoff over existing conditions.	●	Capital Projects	Prior to project approval	Environmental Specialist, Office of Environment, Health & Safety and Project Manager, Capital Projects	Review building plans	Once for each project
Land Use and Planning (LU)						
CBP LU-1: New projects in the Campus Park will, as a general rule, conform to the Physical Design Framework. The Physical Design Framework includes specific provisions to ensure projects at the city interface consider the transition from campus to city.	–	Office of Physical & Environmental Planning	Prior to final design approval	Project Manager, Capital Projects and Campus Architect	Review project proposals for conformance to Physical Design Framework	Ongoing during project development and review
CBP LU-2: Each individual project built in the Hill Campus West, Hill Campus East, or the City Environs Properties under the LRDP will be assessed to determine whether it could pose potential significant land use impacts not anticipated in the LRDP, and if so, the project would be subject to further evaluation under the California Environmental Quality Act.	●	Office of Physical & Environmental Planning	Prior to CEQA review	Campus Architect	Confirm appropriate level of CEQA review is conducted	Once for each project in Hill Campus West, Hill Campus East, or the City Environs Properties
Noise (NOI)						
CBP NOI-1: Mechanical equipment selection and building design shielding will be used, as appropriate, so that noise levels from future building operations would not exceed the City of Berkeley Noise Ordinance limits for commercial areas or residential zones as	●	Capital Projects	Prior to project approval	Environmental Protection Manager, Office	Review building plans	Once for each project

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measured on any commercial or residential property in the area surrounding a project proposed to implement the LRDP. Controls typically incorporated to attain this outcome include selection of quiet equipment, sound attenuators on fans, sound attenuator packages for cooling towers and emergency generators, acoustical screen walls, and equipment enclosures.				of Environment, Health & Safety		
CBP NOI-2: UC Berkeley will require the following measures for all construction projects: ▪ Construction activities will be limited to a schedule that minimizes disruption to uses surrounding the project site as much as possible. Construction outside the Campus Park will be scheduled within the allowable construction hours designated in the noise ordinance of the local jurisdiction to the full feasible extent, and exceptions will be avoided except where necessary. As feasible, construction equipment will be required to be muffled or controlled. ▪ The intensity of potential noise sources will be reduced where feasible by selection of quieter equipment (e.g., gas or electric equipment instead of diesel powered, low noise air compressors). ▪ Functions such as concrete mixing and equipment repair will be performed off-site whenever possible. ▪ Stationary equipment such as generators and air compressors will be located as far as feasible from nearby noise-sensitive uses. ▪ At least 10 days prior to the start of construction activities, a sign will be posted at the entrance(s) to the job site, clearly visible to the public, that includes contact information for UC Berkeley's authorized representative in the event of a noise or vibration complaint. If the authorized contractor's representative receives a complaint, they will investigate, take appropriate corrective action, and report the action to UC Berkeley.	●	Future project contractors	During construction	Director of Campus Building Department and Director of Communications, Capital Strategies	Confirm incorporation of measures in construction bids	Once for each project for construction bid review; ongoing monitoring subject to corrective action and reporting requirements

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▪ During the entire active construction period and to the extent feasible, the use of noise-producing signals, including horns, whistles, alarms, and bells, will be for safety warning purposes only. The construction manager will use smart back-up alarms, which automatically adjust the alarm level based on the background noise level, or switch off back-up alarms and replace with human spotters in compliance with all safety requirements and laws. For projects requiring pile driving: ▪ With approval of the project structural engineer, pile holes will be pre-drilled to minimize the number of impacts necessary to seat the pile. ▪ Pile driving will be scheduled to have the least impact on nearby sensitive receptors. ▪ Pile drivers with the best available noise control technology will be used. For example, pile driving noise control may be achieved by shrouding the pile hammer point of impact, by placing resilient padding directly on top of the pile cap, and/or by reducing exhaust noise with a sound-absorbing muffler. ▪ Alternatives to impact hammers, such as oscillating or rotating pile installation systems, will be used where feasible.						
CBP NOI-3: UC Berkeley will precede all new construction projects that are outside of the Campus Park, the Clark Kerr Campus, or adjacent to a non-UC Berkeley property with community notification, with the purpose of ensuring that the mutual needs of the particular construction project and of those impacted by construction noise are met, to the extent feasible.	●	Capital Projects	Prior to construction	Director of Communications, Capital Strategies	Confirm notification	Once for each project
Public Services (PS)						
CBP PS-1: The University of California Police Department will continue its partnership with the City of Berkeley police department to review service levels in the City Environs Properties.	–	UC Berkeley Police Department	Ongoing	UC Berkeley Chief of Police	Confirm review of service levels	Ongoing

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		and City of Berkeley				
CBP PS-2: UC Berkeley will continue its partnership with the Lawrence Berkeley National Laboratory, Alameda County Fire Department, Oakland Fire Department, and Berkeley Fire Department to ensure adequate fire and emergency service levels to UC Berkeley facilities. This partnership will include consultation on the adequacy of emergency access routes to all new UC Berkeley buildings. UC Berkeley will also continue to work closely with external fire management partners related to regional wildfire prevention, including the Hills Emergency Forum, Diablo Firesafe Council, and various neighborhood groups and internal interdisciplinary planning teams.	●	UC Berkeley (various departments)	Ongoing	Campus Fire Marshal and Director of Campus Operations, Facilities Services	Confirm continued partnerships	Annual
CBP PS-3: UC Berkeley will, on an annual basis, provide housing production projections to the Berkeley Unified School District (BUSD) for the purpose of ensuring that BUSD enrollment projections account for UC Berkeley-related population changes, when UC Berkeley anticipates increasing its housing stock that would serve families which could potentially attend the BUSD. UC Berkeley's Office of Physical & Environmental Planning shall verify compliance with this measure.	–	Senior Planner, Office of Physical & Environmental Planning	Annual	Campus Architect	Confirm transmittal of projections	Annual
Transportation (TRAN)						
CBP TRAN-1: UC Berkeley will implement bicycle, pedestrian, and transit access and circulation improvements as part of new building projects, major renovations, and landscape projects. Improvements will address the goal of increasing non-vehicular commuting and safety; improving access from adjacent campus or city streets and public transit; reducing multi-modal conflict; providing bicycle parking; and providing commuter amenities.	●	Capital Projects	During planning and design of new building projects, major renovations, and landscape projects	Project Manager, Capital Projects	Review project plans	Once for each project
CBP TRAN-2: UC Berkeley will continue in partnership with the City of Berkeley to: (a) maintain the Southside area between College, Dana, Dwight and Bancroft in a clean and safe condition; and (b) provide needed public	–	Office of Physical & Environmental	Ongoing	Project Manager, Capital Projects	Confirm maintenance and improvements	Ongoing

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– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
improvements to the area (e.g. traffic improvements, lighting, bicycle facilities, pedestrian amenities and landscaping).		Planning and City of Berkeley				
CBP TRAN-3: The following housing and transportation policies will be continued: ▪ Except for disabled students, students living in UC Berkeley housing will only be eligible for a daytime student fee lot permit or residence hall parking based upon demonstrated need, which could include medical, employment, academic, and other criteria. ▪ An educational and informational program for students on commute alternatives will be included in new student orientation information.	–	Residential & Student Service Programs	Ongoing	Director of Parking & Transportation	Confirm policies	Ongoing
CBP TRAN-4: UC Berkeley will continue to work with the City of Berkeley, AC Transit, and BART to coordinate transit access to new academic buildings, parking facilities, and campus housing projects, in order to accommodate changing locations or added demand.	–	Parking & Transportation, City of Berkeley, AC Transit, and BART	During planning and design of new academic buildings, parking facilities, and campus housing projects	Director of Parking & Transportation	Review project plans	Once for each project
CBP TRAN-5: UC Berkeley will require contractors working on major new construction or major renovation projects to develop and implement a Construction Traffic Management Plan that reduces construction-period impacts on circulation and parking within the vicinity of the project site. The Construction Traffic Management Plan will address job-site access, vehicle circulation, bicycle and pedestrian safety, and be coordinated with the City of Berkeley Public Works Department when projects require temporary modifications to city streets.	●	Project contractors	Prior to construction	Project Manager, Capital Projects	Confirm Construction Traffic Management Plan	Once for each project
CBP TRAN-6: For each construction project, UC Berkeley will require the prime contractor to prepare a	●	Project contractors	Prior to construction	Project Manager, Capital Projects	Confirm Construction Traffic	Once for each project

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
Construction Traffic Management Plan which will include the following elements: ▪ Proposed truck routes to be used, consistent with the City truck route map. ▪ Construction hours, including limits on the number of truck trips during the morning (AM) and evening (PM) peak traffic periods (7:00 to 9:00 a.m. and 4:00 to 6:00 p.m.), if conditions demonstrate the need. ▪ Proposed employee parking plan (number of spaces and planned locations). ▪ Proposed construction equipment and materials staging areas, demonstrating minimal conflicts with circulation patterns. ▪ Expected traffic detours needed, planned duration of each, and traffic control plans for each. ▪ Identifying bicycle and pedestrian detours and safety plan, including solutions to address impacts to accessible routes.					Management Plan	
CBP TRAN-7: UC Berkeley will manage project schedules to minimize the overlap of excavation or other heavy truck activity periods that have the potential to combine impacts on traffic loads and street system capacity, to the extent feasible.	●	Project contractors	Prior to construction	Director of Capital Projects	Review project schedules	Once for each project
CBP TRAN-8: UC Berkeley will reimburse the City of Berkeley for its fair share of costs associated with damage to City streets from UC Berkeley construction activities, provided that the City adopts a policy for such reimbursements applicable to all development projects within Berkeley.	–	Project Manager, Capital Projects	Prior to issuance of occupancy permits	Director of Capital Projects	Confirm payment	Once for each project
CBP TRAN-9: UC Berkeley will continue to survey the transportation practices of both students and employees at least once every 3 years. UC Berkeley will use the survey results for the following: ▪ Review the effectiveness of the transportation demand management programs and services offered to the UC Berkeley population, including	–	Parking & Transportation	Every 3 years	Office of Physical & Environmental Planning	Confirm surveys	Every 3 years

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
participation, ridership, and other metrics, to assess where demand for expanded or new programs or services is apparent. This effort will include potential emerging mobility services, as well as services provided by others that UC Berkeley may contribute to, in order to increase the use of non-single-occupant vehicle travel modes. ▪ Monitor the use of single-occupant vehicles by commuters and track commute single-occupant vehicle use for faculty, staff, and student commuters. The single-occupant vehicle usage will be a proxy for vehicle miles traveled (VMT), as is it not feasible to directly measure commuter VMT given the mixed-use operation of most UC Berkeley parking facilities.						
Utilities and Service Systems (USS)						
CBP USS-1: For development that increases water demand, UC Berkeley will continue to evaluate the size of existing distribution lines as well as pressure of the specific feed affected by development on a project-by-project basis, and necessary improvements will be incorporated into the scope of work for each project to maintain current service and performance levels. The design of the water distribution system, including fire flow, for new buildings will be coordinated among UC Berkeley, the East Bay Municipal Utility District, and the City of Berkeley Public Works Department and Fire Department.	●	Capital Projects, EBMUD, City of Berkeley	Prior to project approval	Utility Engineering Department, Facilities Services	Review building plans	Once for each project
CBP USS-2: UC Berkeley will continue and expand programs retrofitting plumbing in high-occupancy buildings and seek funding for these programs from the East Bay Municipal Utility District or other outside parties as appropriate.	–	Project Manager, Capital Projects	Ongoing	Director of Campus Building Department and Director of Engineering and Technical Services, Facilities Services	Confirm programs	Ongoing
CBP USS-3: UC Berkeley will continue to incorporate specific water conservation measures into project	●	Capital Projects	During project design	Project Manager, Capital Projects	Review building plans	Once for each project

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
design to reduce water consumption and wastewater generation. This could include the use of special air-flow aerators, water-saving shower heads, flush cycle reducers, low-volume toilets, weather-based or evapotranspiration irrigation controllers, drip irrigation systems, and the use of drought resistant plantings in landscaped areas, and collaboration with the East Bay Municipal Utility District to explore suitable uses of recycled water.						
CBP USS-4: UC Berkeley will analyze water and sewer systems on a project-by-project basis to determine specific capacity considerations for both UC Berkeley systems and off-site municipal systems in the planning of any project proposed under the LRDP.	●	Capital Projects	Prior to project approval	Utility Engineering Department, Facilities Services	Review building plans	Once for each project
CBP USS-5: Payments to service providers to help fund wastewater treatment or collection facilities will conform to Section 54999 of the California Government Code, including, but not limited to, the following provisions: ▪ Fees will be limited to the cost of capital construction or expansion. ▪ Fees will be imposed only after an agreement has been negotiated by UC Berkeley and the service provider. ▪ The service provider must demonstrate the fee is nondiscriminatory: i.e. the fee must not exceed an amount determined on the basis of the same objective criteria and methodology applied to comparable nonpublic users, and must not exceed the proportionate share of the cost of the facilities of benefit to the entity property being charged, based upon the proportionate share of use of those facilities. The service provider must demonstrate the amount of the fee does not exceed the amount necessary to provide capital facilities for which the fee is charged.	–	Office of Physical & Environmental Planning	Prior to issuance of occupancy permits	Office of the Chief Financial Officer	Confirm payment	Once for each project
CBP USS-6: UC Berkeley will continue to implement the Zero Waste requirements of the UC Sustainability Policy	–	Zero Waste staff	Ongoing	Manager, Zero Waste	Confirm implementation	Ongoing

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
designed to reduce the total quantity of campus solid waste that is disposed of in landfills.						
CBP USS-7: In accordance with the CalGreen Code, and as required for Leadership in Energy and Environmental Design certification, contractors working for UC Berkeley will be required under their contracts to report their solid waste diversion according to UC Berkeley's waste management reporting requirements.	●	Project contractors	During construction	Project Manager, Capital Projects	Confirm reports	Ongoing during construction
CBP USS-8: To the extent feasible, for all projects in the City Environs Properties, UC Berkeley will include the undergrounding of surface utilities along project street frontages, in support of Berkeley General Plan Policy S-22.	–	Project Manager, Capital Projects	Prior to project approval	Applicable Public Utility Agency	Review utility plans	Once for each project

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

Continuing Best Practice	Implemented as part of the Cal Softball Renovation Project	Implementation		Monitoring		
		Party	Timing	Party	Action	Frequency
Wildfire (WF)						
CBP WF-1: UC Berkeley will continue to comply with the California Public Resources Code Section 4291, which mandates firebreaks of 100 feet around buildings or structures in, upon, or adjoining any mountainous, forested, or brush- or grass-covered lands.	–	Campus Operations, Facilities Services	Ongoing	Campus Fire Marshal	Confirm maintenance of firebreaks	Ongoing
CBP WF-2: UC Berkeley will conduct vegetation management under its approved Wildland Vegetative Fuel Management Plan.	–	Hill Campus Fire Mitigation, Facilities Services	Ongoing	Director of Campus Operations, Facilities Services	Review vegetation management plans	Ongoing during planning for vegetation management practices
CBP WF-3: UC Berkeley will continue to plan and implement programs to reduce risk of wildland fires, including plan review and construction inspection programs that ensure that its projects incorporate fire prevention measures.	–	Campus Building Department	During plan review and site inspection	Director of Campus Building Department and Campus Fire Marshal	Confirm incorporation of fire prevention measures in construction plans	Once for plan review; during regularly scheduled inspections
CBP WF-4: UC Berkeley will continue to plan and collaborate with other agencies through participation in the Hills Emergency Forum.	●	Hill Campus Fire Mitigation, Facilities Services	Ongoing	Director of Campus Operations, Facilities Services	Confirm participation in the Hills Emergency Forum	Annual

Key:
● = CBP implemented as part of the proposed project
– = Other CBP

APPENDIX C

Wildfire Protection Plan

UC Berkeley Cal Softball Field Renovation Project

Wildfire Protection Plan

September 8, 2023

University of California, Berkeley, within the Hill Campus West, on Centennial Drive, east of Stadium Rim Way and the Witter Rugby Field, west of the Strawberry Canyon Pool and Haas Clubhouse

Owner:

University of California, Berkeley

Physical and Environmental Planning

300c A and E Building MC#1382

Berkeley, CA 94720

Prepared by:

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I. EXECUTIVE SUMMARY

This document is a Wildfire Protection Plan for the proposed University of California, Berkeley (UC Berkely) Cal Softball Field Renovation Project (referred hereafter as the project or proposed project). This document describes the project design features and the project's physical, regulatory and landscape context. The softball field components are described in terms of the structures, water supply, landscaping, access and electrical facilities. The existing and future fire hazards of the project location are analyzed by viewing local fire history, the State's hazard assessment, and by predicting site-specific fire behavior prediction (flame lengths, rate of fire spread and crown fire potential) using industry standard publicly available software.

This document evaluates how the project will affect the risk of wildfire to the project site, and the project site's impact on wildfire risk to the plan area. The document provides project elements and recommendations to reduce both of these risks. Though no site is ever immune from wildfire risk, the proposed project, including the site-specific project elements contained herein, would reduce the risks.

Project elements of the Wildfire Protection Plan span all portions of the cycle of wildfire, from ignition prevention, detection, notification and response. They include vegetation management, signage, training, and changes in operations and events during high fire danger. These project elements are project design features that are mandatory components of the proposed project, not mitigations.

Recommendations of the Wildfire Protection Plan are also provided in this document, and serve as non-mandatory practices that can be implemented within or beyond the project site to reduce ignition through restrictions on human behavior and fuel modification to make the vegetation less ignitable. Together, these project elements and recommendations would reduce the risks of ignition, slow fires if they do ignite, provide protection for areas most at risk, and provide safe evacuation and access routes.

I. INTRODUCTION

A. Purpose of the Wildfire Protection Plan

The University proposes to renovate and improve the existing Cal Softball Field located within the Hill Campus and the Strawberry Canyon Recreation Area. Cal Softball Field is located within the very high fire severity zone. All projects within this zone are required to include a project specific Wildfire Protection Plan, as part of compliance with the Long Range Development Plan (LRDP) Mitigation measures.

An overarching objective of the Wildfire Protection Plan is to identify actions that can be taken to substantially reduce the hazards and risks associated with renovation of the Cal Softball Field, while minimizing adverse environmental effects. It is not possible to eliminate the fire hazard on a large property like the Campus that contains hundreds of structures, steep slopes, and a wide variety of vegetation types. Reducing risk and improving resilience for the Cal Softball Field can be achieved through finite steps that include increased community and University vigilance. These recommendations will reduce hazards by modifying fuels so that a fire would spread slowly and burn with low flame lengths, which can prevent fires from moving into unmaintained vegetation, open spaces, and structures. In other locations, recommendations will reduce fuels to slow fires, and reduce vegetative and other fuels in topographic "chimneys" that could facilitate wildfire

spread from open space toward Campus assets. Finally, roadside recommendations will improve safe access and evacuation routes along critical roads adjacent to the project.

The Wildfire Protection Plan will help UC Berkeley plan, budget for, execute, and monitor the results of the project. The plan will enable UC Berkeley staff to make informed and adaptive management decisions that are cost-effective and environmentally sustainable.

B. Context

The Cal Softball Field is located in the Hill Campus West, at the mouth of Strawberry Canyon. The site is characterized as in the wildland urban interface (WUI), between a densely populated area with student housing and an 80,000-capacity stadium and an 800-acre Ecological Study Area in the Hill Campus East (See Figure 1). The Hill Campus East is largely undisturbed, except for specific hazard reduction treatments that are in the process of being implemented.

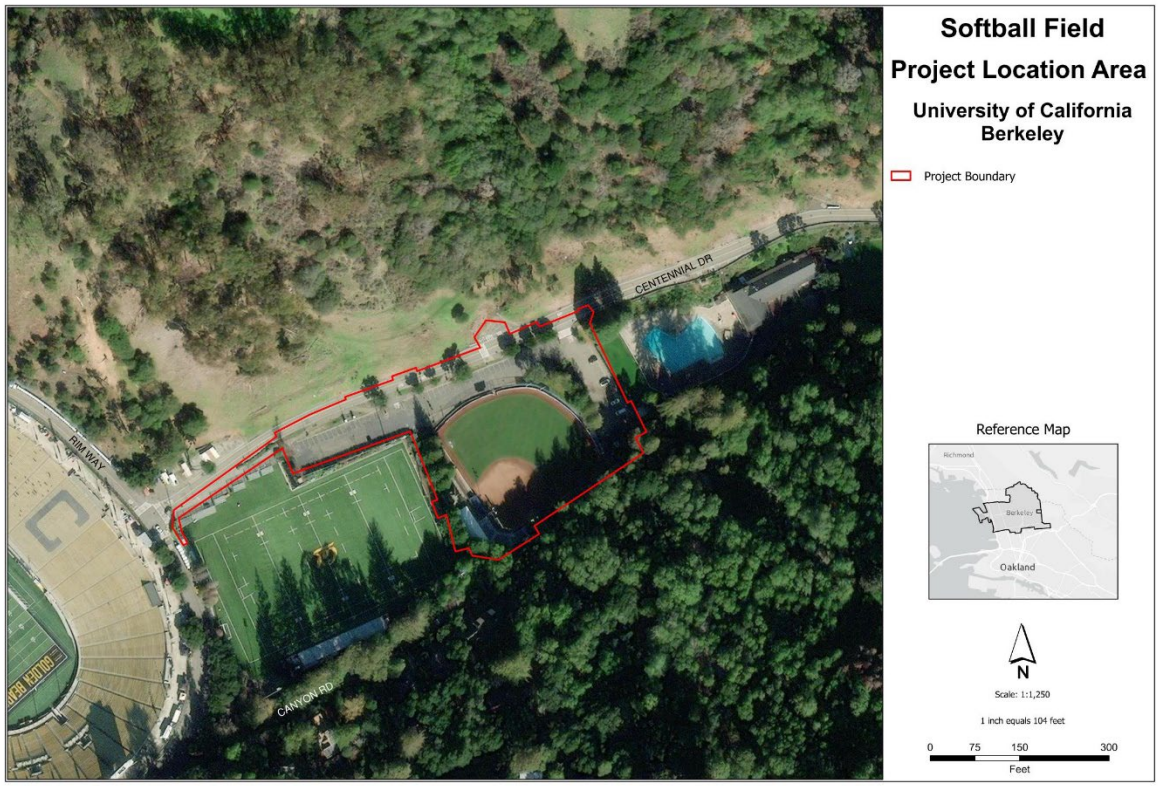


Figure 1: Project Location Map

The Cal Softball Field is in the WUI, in the Hill Campus. It shares space with:

- The Witter Rugby Field
- Strawberry Recreation Center
- Strawberry Maintenance Center
- UC Botanical Garden
- Silver Space Lab
- Space Sciences Laboratory
- Math Science Research Institute
- Field Station for Behavioral Research.

In addition to the three facilities administered by the UC Berkeley Athletics Department, five other facilities share the Hill Campus area. Some facilities have national or international importance. These include a world-class botanical garden, a renowned science education center, an animal behavior laboratory, and laboratories that have international significance. These facilities offer substantial value to Campus activities and a total daytime population of more than 100. Summertime populations increase with day camps and greater number of visitors.

While not part of the Hill Campus, the Lawrence Berkeley National Laboratory (LBNL) abuts the Hill Campus to the north. LBNL is by far the largest and most economically important facility in the immediate area, with a daytime population of more than 5,000.

C. Softball Plans

The scope of the project is the renovation of the existing Cal Softball Field, primarily providing additional spectator and player amenities and seating for up to 1,511 spectators, up from approximately 1,340 temporary spectator seats under existing conditions (See HOK Conformed Set: C101 Existing Conditions Plan).

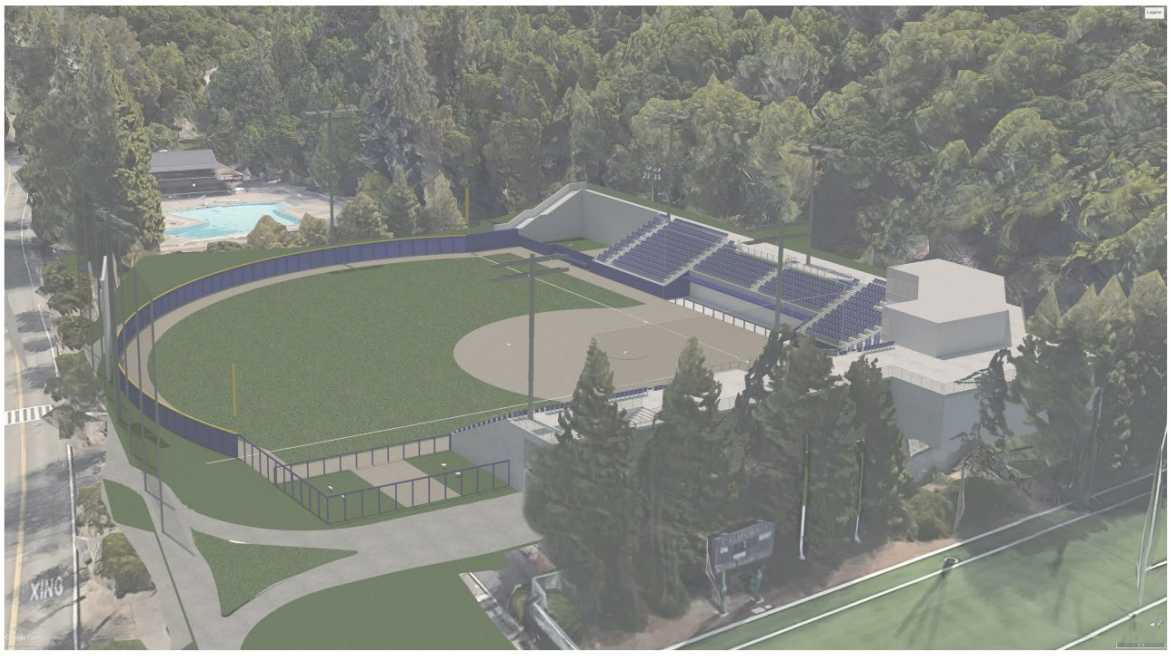


Figure 2: Softball Field Rendering provided by HOK Permit Submission Design Narrative, June 4 2020

The primary physical changes include providing additional permanent spectator seats in place of temporary bleachers, press box, spectator concourse, restrooms, team and locker rooms, ticket booth, improved training facilities (e.g., batting cages); field amenities include replacement competition-grade lights, public address system, expanded playing field dimensions, and replacement synthetic turf; and site amenities that include entry plaza, landscaping, sustainable design features, access and bus stop improvements, and utilities.

The proposed project will remove approximately 85 parking spaces and retain approximately 25

parking spaces in the existing Witter Lot. The proposed project will include subgrade connections to the campus Electrical Distribution System and includes the installation of one proposed fire hydrant and one proposed fire department connection.

The proposed project also includes the implementation of applicable UC Berkeley's continuing best practices (CBPs), a game-day transportation demand management (TDM) plan, and this project-specific Wildfire Protection Plan.

D. Codes and Regulations

There are multiple relevant jurisdictions, regulating authorities, and codes that this project must address. An overview list of codes applicable to the design plans is available in Appendix C.1.

The California Fire Code, Section 4903 (California Fire Code 2022) authorizes the fire code official to require the development of a fire protection plan for specific project or development proposed located in the WUI, to be prepared by a qualified specialist who will analyze the wildfire risk of the building, project, premises or region to recommend necessary changes. The California Fire Code Section 4903 specifically requires maps of boundaries, terrain, building footprints and fuel modification zones as well as natural vegetation and restoration plans. For fuel modification zones, details regarding the plant type, size and irrigation demands must be included. Identification of points of access for equipment and personnel to maintain vegetation in commonly-held lands is an additional requirement. Also required are legally binding statements regarding both property owner responsibilities for vegetation maintenance and community responsibility for maintenance of fuel modification zones.

The Wildfire Protection Plan required by this code includes a project-specific wildfire hazard assessment that considers the project location, topography, aspect, and climatic and fire history, and indicate that the plan conforms with all applicable fire safety regulations. The plan not only addresses fuel reduction and building methods and materials required by state codes, but also fire department access, egress, road and address signage, and water supply. Project elements address the project-specific wildfire risk which are detailed below.

This Wildfire Protection Plan satisfies the requirements of California Fire Code Section 4903. Further information on the California Fire Code and other regulatory requirements the project is governed by is available in Appendix E.1.

E. UC Berkeley and Local Plans and Policies

There are several land management planning documents that guide the design of developments in the region (see Section VI A for acronyms), including:

1. UCB 2022 Campus Master Plan,
2. UCB LRDP Final and the LRDP EIR,
3. UCB 2022 Emergency Operations Plan,
4. Alameda County CWPP,
5. Alameda County Emergency Operations Plan,
6. City of Berkeley General Plan,
7. City of Berkeley Local Hazard Mitigation Plan,
8. City of Berkeley CWPP,
9. LBNL Long Range Development Plan,

10. LBNL Wildland Fire Management Plan, and
11. LBNL Vegetation Management Guide.

The Wildland Vegetative Fuel Management Plan (WVFMP or Plan) is a critical document that will be referenced throughout this Wildfire Protection Plan. The WVFMP proposes treatments of vegetation and associated fuels on approximately 200 acres per year within the 800-acre UC Berkeley Hill Campus (Plan Area or Hill Campus) to improve public safety and reduce losses/damage from wildland fire.

The WVFMP guides implementation of existing and proposed vegetation treatment types across the Hill Campus, including defensible space, roadside treatments, evacuation support treatments, fuel break treatments, and fire hazard reduction treatments. Five types of vegetation treatment activities are proposed to implement the four vegetation treatment types; these include manual treatment, mechanical treatment, prescribed broadcast burning, managed herbivory (livestock grazing), and targeted ground application of herbicides.

A set of best practices and environmental protection measures are included in this Wildfire Protection Plan, along with a list of permits and approvals that could be required. A program that ensures ongoing maintenance, monitoring, and adaptation is also included. A programmatic EIR was certified in 2021.

The relevance of these local plans is explained in Appendix F.1.

II. EXISTING CONDITIONS

The Cal Softball Field is located on Centennial Drive in Strawberry Canyon, bounded by Witter Rugby Field to the west and Strawberry Canyon Recreation Center to the east. The existing site, in its current condition, is evaluated from a wildfire standpoint based on physical conditions, fire history, wildfire hazard and risk, predicted fire behavior, and nearby departments and services.

In this report, the "project site" is defined as the area in which previous and future actions are specifically taken to renovate the softball field. The "site analysis area" is the land depicted in Figures 12 through 16, 24 & 25, and 30. The site analysis area is a broad area that encompasses Strawberry Canyon and the environs of the project. Appendix A displays the geographical difference between the project site, plan area, and site analysis area.

The UC Berkeley Long Range Development plan divides the Hill Campus into Hill Campus West and Hill Campus East. Hill Campus West is the area east of the Campus Park from Gayley Road and Piedmont Avenue. Hill Campus East extends east from the eastern boundary of the Hill Campus West to the eastern boundary of the university's property, generally defined as Grizzly Peak Boulevard. The Campus Park lies to the west and below the Hill Campus, bounded by Gayley Road and Piedmont Avenue.



Figure 3: Existing Condition (Google Earth)

A. Physical Conditions

1. Climate and Weather

Weather conditions significantly impact both the potential for fire ignition and the rate, intensity, and direction in which fires burn. The most important weather variables used to predict fire behavior are wind, temperature, and humidity.

Wind direction and velocity profoundly affect fire behavior, but wind is considered the most variable and unpredictable weather element. Wind increases the flammability of fuels both by removing moisture through evaporation and by angling the flames so that they heat the fuels in the fire's path. The direction and velocity of surface winds can also control the direction and rate of the fire's spread. Aloft winds, defined as those that blow at least 20 feet above the ground, can carry embers and firebrands downwind. These burning fuels can ignite spot fires that precede the primary front. Gusty winds cause a fire to burn erratically and make it more difficult to contain. The winds that create the most severe fire danger, known as the "Diablo" winds, typically blow from the northeast. These wind events typically occur in October. The UC Berkeley Hill Campus WVFMP (UCB Capital Strategies) reports that the driest recorded relative humidity was 9 percent; the highest recorded temperature was 103 degrees Fahrenheit, and the greatest recorded wind speed was 34 miles per hour (mph). Usually, days with recorded relative humidities below 20 percent are associated with Diablo wind events. Because the project is situated east of a major expanse of open space, the plan area (before fuel treatment as outlined in the WVFMP) can be threatened by a fire approaching from the west with a westerly wind. However, the WVFMP also cautions that winds from the east may also result in fire encroachment to the plan area if fuels are not maintained and especially if a fire were to spread by embers generated and blown/broadcast

off-site.

The plan area's location in proximity to the coast influences its weather conditions. It has the warm, dry summers and cool, moist winters characteristic of the fog belt area. The area averages about 30 inches of precipitation a year, primarily in the fall and winter. Most of the measurable rainfall generally occurs during the winter months (mid-October to mid-April). Thus, the fire season (the time of highest fire danger) comprises the dry months of May through October (City of Berkeley 2023). Because the time of activity in the Cal Softball Field ends in May, there is relatively little overlap with times of high fire danger and field usage. During the spring, foliage and soil moistures are still high, which limits ignition and fire spread. The wind normally blows from the west but, as discussed above, the most severe fire conditions occur in association with strong north or northeast winds. Under these conditions (common in the fall), humidities typically drop to 10 percent and temperatures soar to over 100 degrees Fahrenheit, resulting in conditions that are more likely to result in vegetation ignition and fire spread. Additional information on climate and weather data can be found in Appendix D.1.

The National Weather Service issues red flag warnings when critical fire conditions are present in the next 24 hours due to a combination of dry air, strong winds and warm temperatures (NOAA LBNL). National Weather Services will also issue red flag alerts up to 72 hours before an anticipated red flag warning (NOAA FWW). The number of red flag warning days varies year to year. In recent years, there have been fewer than three such days. Other years the number of red flag warnings can be as many as ten. The winds when red flag warnings are in place are particularly noticeable on the ridgetops east of the plan area (such as near Grizzly Peak Blvd.)

In addition, occasional episodes consisting of several still, stagnant days occur during summer months. During these periods—characterized by continuous high temperatures and low relative humidities, present extreme challenge to controlling wildfire. This overall weather pattern enhances the possibilities of ignition and extreme fire behavior and rapid spread of wildfire.

2. Topography and Elevation

Topographic features, such as slope, aspect (orientation with respect to sun and wind), and the overall form of the land, have a profound effect on an area's ecology and wildfire behavior. Topography affects a wildfire's intensity, burning rate (consumption of fuels), direction, and rate of spread. An area's topography also affects local winds, which are either "bent" or intensified by topographic features. Topographic features can also induce diurnal upslope and downslope winds. The speed, regularity, and direction of winds directly influence the direction of wildfire spread and the shape of the flame front.

The existing Cal Softball Field is located at the relatively wide mouth of Strawberry Canyon. The terrain of the softball field itself is flat. Ignitions in this location could travel uphill, to the north and south, assisted by topography since fires travel faster when advancing uphill. Dry Diablo winds (discussed in the preceding section) are likely to flow down Strawberry Canyon, channeled toward the ballfield. The spread of any fire that could originate at the plan area is likely to be interrupted by and would need to move around the vast non-burnable area of Memorial Stadium.
Memorial Stadium provides a large physical obstruction to the potential spread of wildfire downslope to adjacent public and private properties. The concrete walls that form the Stadium are likely to deflect and slow wind. Embers generated from a wildfire would fall on non-combustible areas within the stadium and its parking area, thus limit fire spread, and reducing the energy of the fire in the area downwind of the stadium.

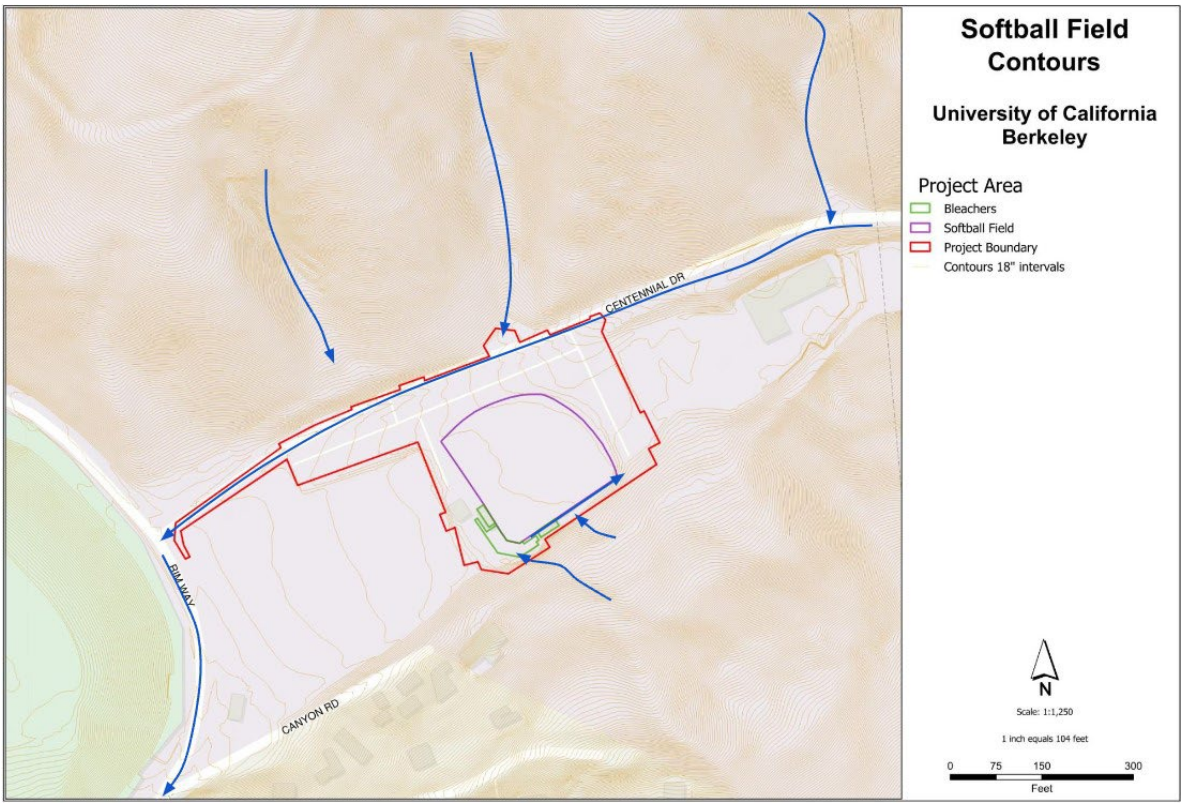


Figure 4: Topography Contours Map

3. Soils

Soils are relevant to a Wildfire Protection Plan in how they affect stormwater runoff and vegetation, which will be discussed in the following subsections.

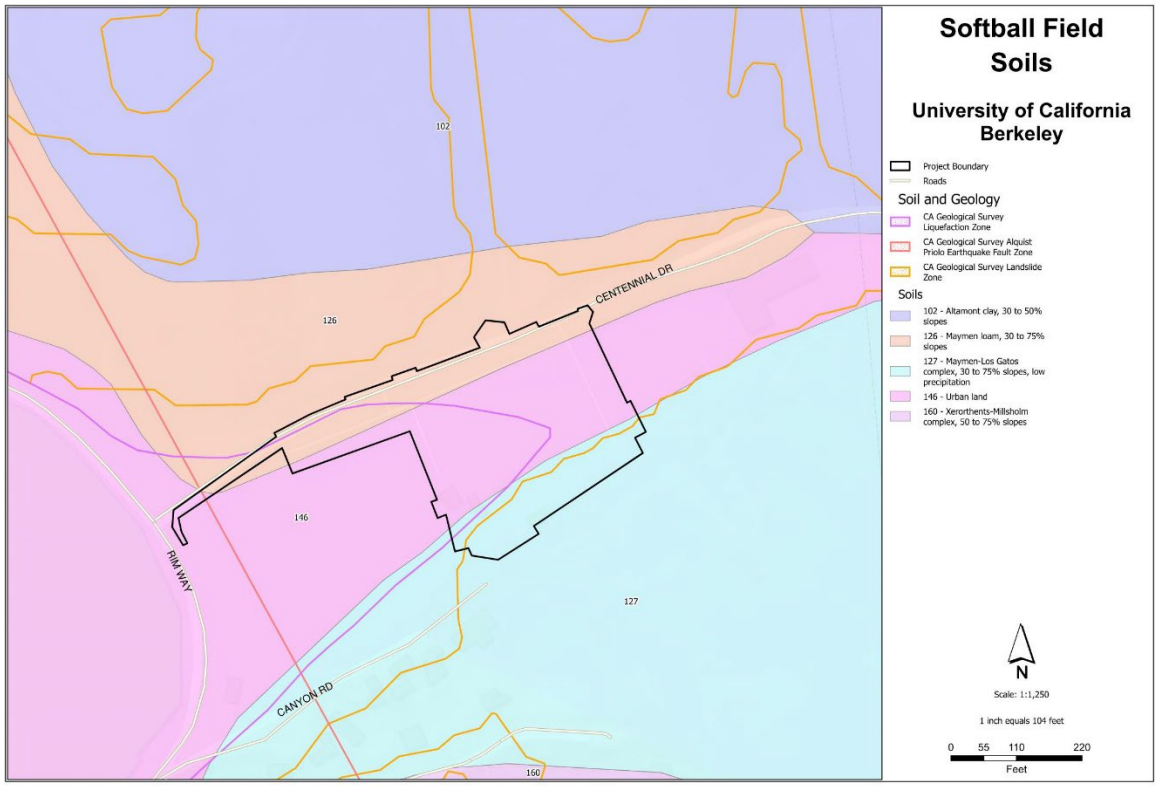


Figure 5: Soils Map

The majority of the site is underlain by Urban Land, which has poor stratification, unpredictable infiltration rates, and complex geologic distribution due to non-native soils being brought to the site. These areas of urban fill soils are currently managed by horticultural landscaped areas and engineered drainage systems. The sloped areas to the north and south consist of Maymen Loam, 30 to 75 percent slopes and Maymen-Los Gatos complex, 30 to 75 percent slopes, both of which are hydrologic soil group D soils. This soil type impacts the characteristics of vegetation and runoff flow from the canyon slopes. The implications of soil characteristics are discussed in the subsections below.

4. Hydrology

The project site is located in the geological formation of Strawberry Canyon, downstream of where Strawberry Creek is culverted into an existing 48 inch storm drain running beneath Centennial Drive and an existing 60 inch storm drain running beneath the existing Strawberry Canyon Recreation Center, Cal Softball Field, Witter Rugby Field, and California Memorial Stadium.

As the project site is located in a canyon with slopes comprised of hydrologic soil group D soils, this combination of steep slopes and a low infiltration rate provide the potential for high runoff and debris flows into the project site due to the lack of infiltration provided by the soils. As observed during a site visit, the potential for debris flows appears to be addressed by the following infrastructure: an unnamed drainage on the north slope of Strawberry Canyon becomes culverted before reaching Centennial Drive. The existing Cal Softball Field is protected from run-on and runoff from the north slope generated by typical storms by curb, gutter, and storm drain inlets along Centennial Drive and within the Witter parking lot. Run-on from the southern slope appears

to be managed by a retaining wall and other proposed drainage infrastructure.

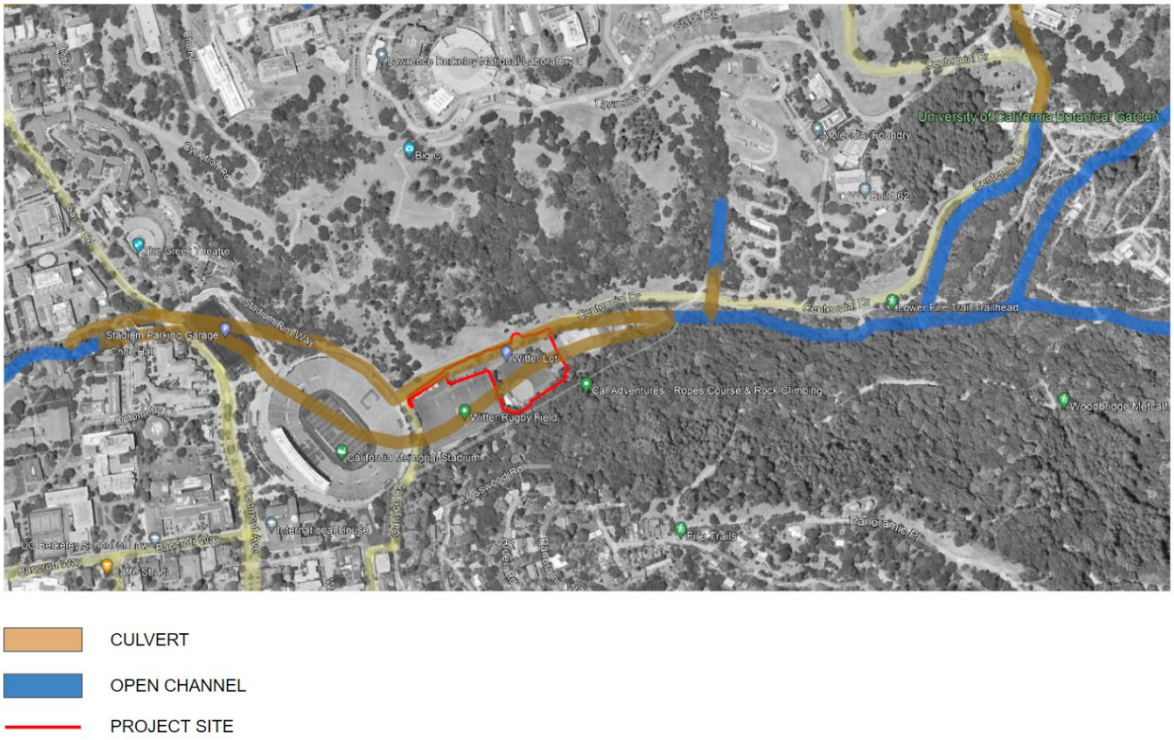


Figure 6: Strawberry Canyon Drainage Map (Google Earth)

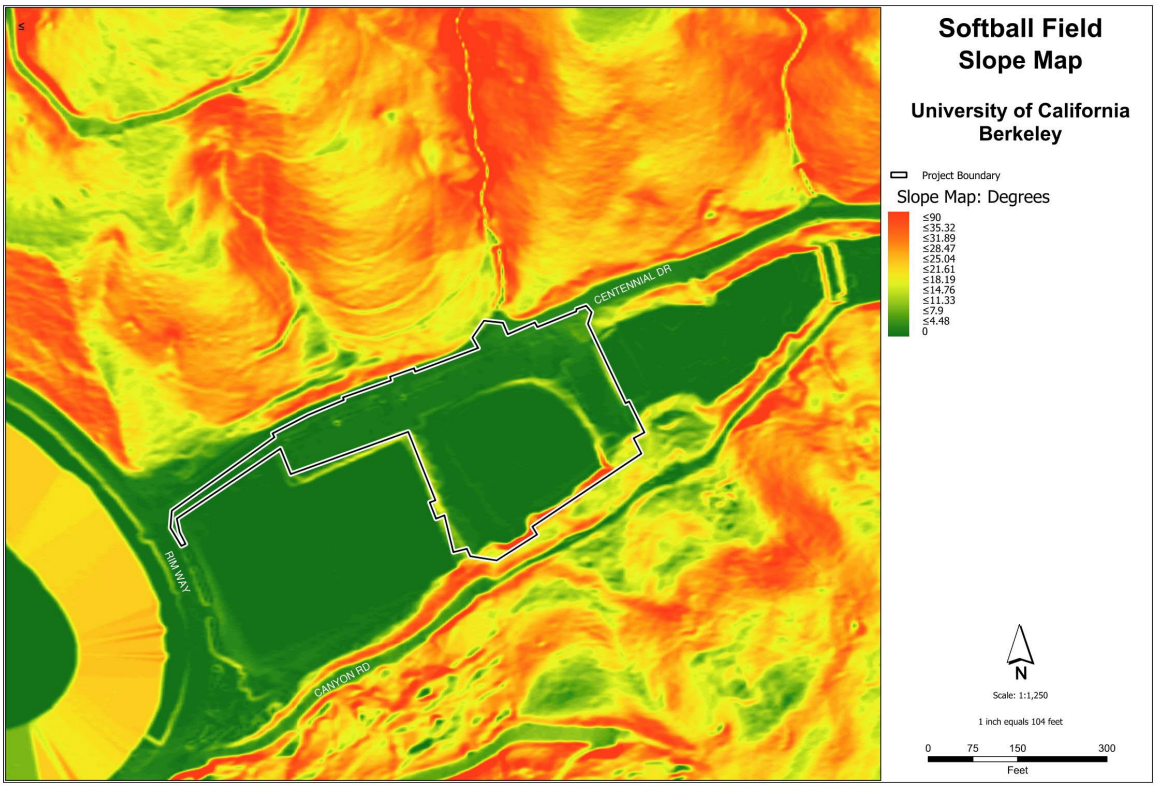


Figure 7: Slope Map

Areas of higher slope typically generate higher runoff flow than flat areas, and have an increased risk of sediment and debris movement. The project site does not have areas of steep slopes that would produce increased sediment and debris.

5. Existing Vegetation Treatments

UC Berkeley has managed the surrounding area for fire hazard reduction for decades. The 1980s saw a combination of treatments in Strawberry Canyon that spanned prescribed burns, goat grazing, eucalyptus removal, and forest thinning with hand crews[1]. In the 2000s, efforts focused on eucalyptus removal in Claremont Canyon[2]. More recently, UC Berkeley Facilities Services Department has planned for and undertaken regular vegetation treatment activities in the plan area. The vegetation treatments are reviewed and approved by the Fire Mitigation Committee, an inter-departmental committee headed by Scott Stephens, Wildland Fire Science professor from the College of Natural Resources, with representation from the University's Facilities Services, Environmental Health and Safety, LBNL Protective Services, and UC Berkeley Police and Capital Projects departments.

[1] Fire Prevention Committee meeting minutes, 1986-91.
[2] Fire Mitigation Committee meeting minutes 2000-2011.

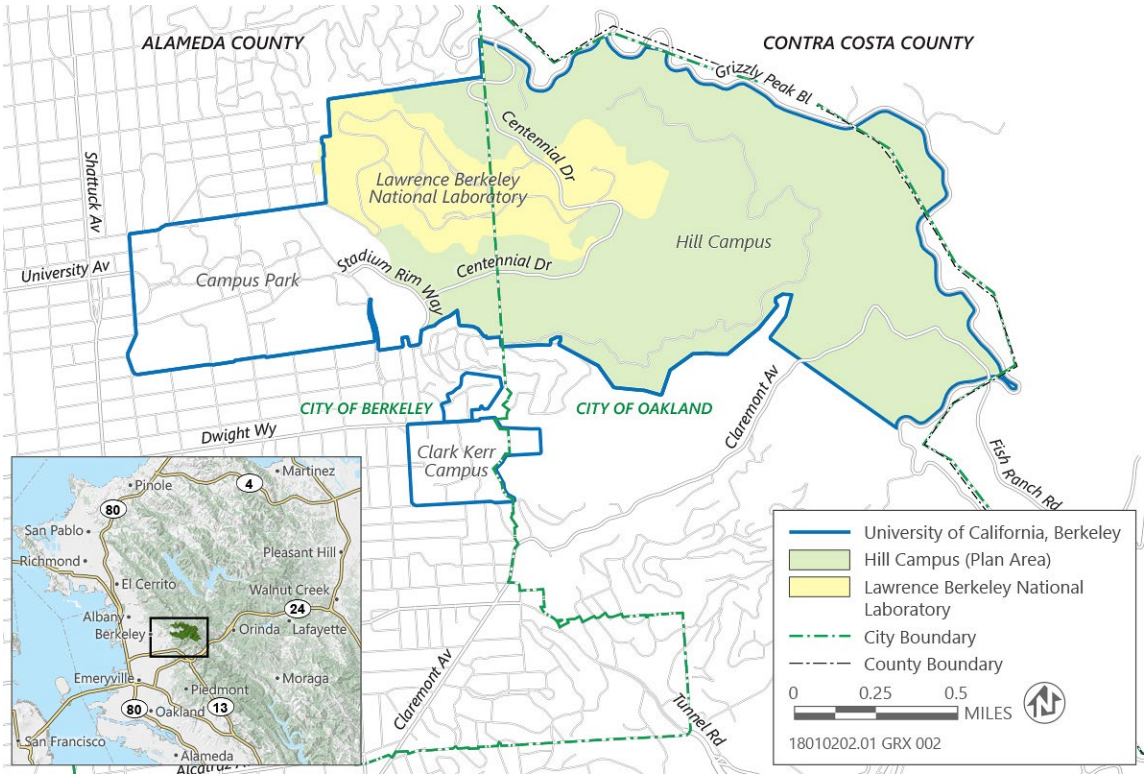


Figure 8: WVFMP Plan Area - C Berkeley Hill Campus Wildland Vegetative Fuel Management Plan, State Clearinghouse No. 201911038

The entire Hill Campus is guided by a 2020 Wildland Vegetative Fuel Management Plan (WVFMP) completed by UC Berkeley's Facilities Services in 2021. This plan and its associated EIR established a framework of treatments around buildings, roadsides, turnouts, evacuation routes and more plan area-wide hazard reduction treatments.

The treatments covered by the WVFMP which Facilities Services has implemented over the previous three years in the WVFMP plan area include:

1. Removing dead trees and hazardous trees or limbs that pose an imminent public safety risk;
2. Removing vegetation along 100 feet of either side of roadways and trails to maintain emergency evacuation access;
3. Providing defensible space, by removing vegetation within 100 feet of all structures consistent with the California State Public Resources Code (PRC) 4291; and
4. Removing vegetation along a 15 feet strip of land adjacent to roads and near property boundaries, and within a 50 feet radius of designated turnouts along Grizzly Peak Boulevard and Claremont Avenue.

Typically, vegetation treatment activities carried out by Facilities Services are implemented by hand crews and hand-held tools, with occasional use of machinery to cut grass and shrubs and to chip woody material. Herbicide is applied by hand-held tools to roadside vegetation; however, it is currently limited in its use. Removal of exotic plants occurs in areas previously treated. In recent

years, Facilities Services has replaced hazardous Monterey pine trees with fire-resistant trees, shrubs, and grasses on an area known as Tightwad Hill. In addition, the Claremont Canyon Conservancy, UC Berkeley Forestry Club and a local non-profit, Take to The Hills, have participated in maintaining prior treatments in the plan area through the removal of flammable exotic invasive species and planting of less flammable species. The combined efforts typically exceed 500 volunteer-days annually. Additionally, UC Berkeley has participated in and will continue to participate in Wildfire Awareness events organized by the Berkeley City Council. Additional information on fire-resistant landscaping characteristics can be found in Appendix G.2.

Facilities Services has treated vegetation in the Hill Campus for years, and now has an expansive ongoing vegetation treatment and maintenance program in the Hill Campus West, based on the implementation of the 2020 WVFMP. Current vegetation treatments take the form of Defensible Space Creation and Maintenance, Roadside Treatments, Turnout and Signpost Treatments, Exotic Plant Removal and Maintenance, as well as Evacuation Support, Hazard Tree Removal, and Replanting with fire-resistant vegetation. Generally, treatments occur annually, including maintenance of the Evacuation Support Treatments to improve emergency access and evacuation support within 100 feet of either side of large portions of Centennial Drive, along upper portions of Claremont Avenue and along the Jordan Fire Trail.

Since 2014, UC Berkeley has applied the set of standards shown here in Appendix G.3 to direct initial treatments and maintenance activities in the Roadside Treatment and Defensible Space Maintenance areas in the Hill Campus West. The standards for the Roadside Treatments apply to the strip of land within 15 feet of the pavement edge from both sides of designated roadways. The Defensible Space Maintenance area applies to areas within 100 feet of any structure, unless specified otherwise. These distances are consistent with California State PRC 4291, and are covered by the 2020 LRDP and the 2020 WVFMP.

B. Fire History

1. Fire Risk

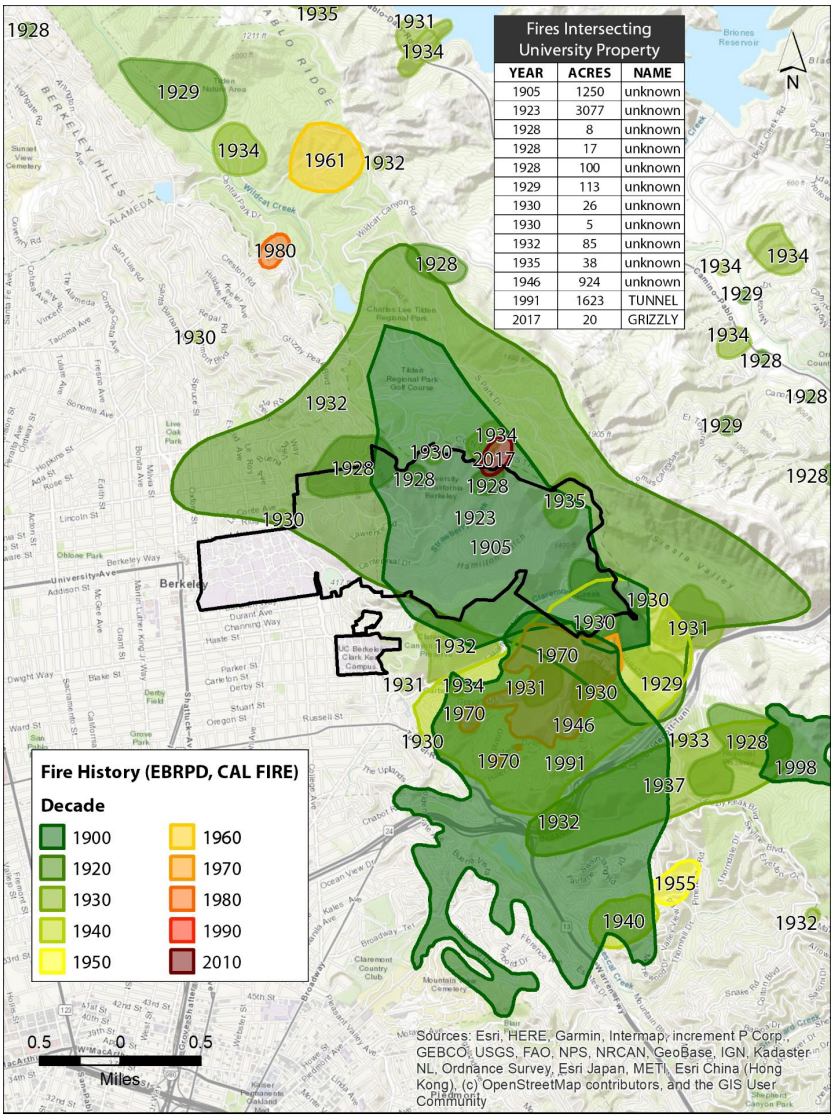
CAL FIRE's annual Wildfire Activity Statistics reports, 2014-2017, indicate the most common causes of wildfires are mechanical use, debris burning, arson, electrical power lines, campfires, playing with fire, and lightning. CAL FIRE's annual Wildfire Activity Statistics, 2018-2021 reports indicate the most common causes of wildfires in Alameda County are vehicles, arson, electrical power lines, and equipment use. Additional information on fire history and risk can be found in Appendix H. Should a fire start, detection and report of the event would be almost immediate due to notification systems already in place. Arson, campfires, warming or cooking fires and playing with fire are more likely in vacant areas in the Hill Campus to the south, east and north. In contrast, the risk of fire from mechanical use, vehicles, debris burning, electrical power lines, and smoking is greater in developed locations. In the case of the plan area, debris burning is prohibited - as it is throughout the Bay Area (BAAQMD, 2019) - and neighbors would be expected to promptly report any such burning.

2. Fire History

The East Bay hills' combination of hot dry summers, conducive topography, flammable vegetation, dense urban development, limited fire-fighting access, and Diablo winds present significant risks to the public, structures and property located along the wildland-urban interface. Historic wildfire ignitions in the East Bay hills have not been well documented but are almost all directly related to human activity. The history is compiled from newspaper articles, old fire planning studies and recent fire perimeters collected by fire departments. Figure 9 from the UC Hill Campus Wildland

Vegetative Management Plan indicates the wildfire history of the East Bay hills from 1950 to 2017. Of these fires, 11 Diablo wind fires burned 9,840 acres of the East Bay hills between 1923 and 1998, destroying 3,542 homes and killing 26 people, with more than 2 billion dollars in financial loss in current dollars. Most of these losses occurred from two fires: The 1923 Berkeley Fire and the 1991 Oakland Tunnel Fire. During the same period, three large west-wind fires burned 1,230 acres of grass, brush, trees, and four homes in the East Bay hills. For eight decades, the 1923 Berkeley Fire, which burned 130 acres north of the plan area, held the California record for the greatest number of structures destroyed by wildfire (584 structures). This fire also destroyed several structures on the north side of the Campus. Additional smaller fires have also ignited near the plan area including, most recently, the 2017 Grizzly Fire. Then, the 1991 Oakland Tunnel Fire set a tragic record for loss of homes to California wildfire. Until 2017, the 1991 Tunnel Fire stood as the highest destruction of California homes per acre.

The most recent fire of note near the Campus is the Grizzly Fire in 2017, which started on the UC Hill Campus West and burned up to and across Grizzly Peak Blvd near major electrical transmission lines. This 20-acre fire required evacuations and endangered the continuity of electrical power to the Campus and the LBNL. At that time, the threatened lines were the sole source of electricity for these facilities. While weather was fairly benign, and wildfire response effective, this event highlights the continuing need for pre-fire actions to reduce hazards and wildfire preparedness to support response and recovery.



Fire History Map UC Berkeley Hill Campus Wildland Fuel Management Plan

Figure 9: East Bay Hills Wildfire History



Figure 10: Fire behavior exhibited on the UC Berkeley Hill Campus during the Aug 3, 2017 Grizzly Fire. Source - ABC7news.com



Figure 11: Multi-agency firefighting resources dedicated to the Aug 3, 2017 Grizzly Fire. Campus property is on the left. Source – ABC7news.com

C. Analysis of Existing Wildfire Hazard and Risks

The term "fuel" is used to describe any material that will burn, whether a vegetative or structural component. A single fire may consume shrubs, grasses, trees, woodpiles, and structures as fuels. However, a structure built under current ignition resistant codes (Chapter 7A of the California Building Code) is ignition-resistant, and a series of structures with defensible space forms a fuel break. Existing structures that were built before ignition-resistance was required are more prone to burn. However, structure ignitions do not contribute to the wildfire front or wildfire spread because normally there is a delay in ignition compared to wildland fuels such as grass or leaf litter. After a structure is burning fully, it does contribute to ember production and distribution, however wildland fuels produce and spread embers in such quantity that the additional embers produced by structures are not significant and do not alter the speed of fire spread (Masoudvaziri et al, 2021). For these reasons, the accepted models for wildfire spread focus on vegetation and not on structures.

1. Existing Vegetative Fuel Types

Approximately 33 percent of the 202-acre site analysis area shown in Figure 30 is classified as Urban/Developed. Grass (Herbaceous) is found on 12 percent of the site analysis area, and shrub/grass mix covers another six percent. Forested areas are found on almost half of the site analysis area, divided between Forest/Shrub (27 percent in Forest/Shrub, 19 percent in Mixed Hardwood, and three percent in Mixed Conifer. Turf, and Bare Ground amount to slightly less than 1.5 percent of the site analysis area. Additional information on vegetative fuel types can be found in Appendix G.1.

2. Fuels – Existing

In order to predict fire behavior, vegetation is categorized into fuel models, each of which burns in a slightly different manner. Fuel models describe such vegetation as tall and short grass, forest with and without an understory, and oak woodlands with and without understory vegetation, or shrubs of varying density and height. The structure (or arrangement) of the vegetation is just as important as the kinds of plants that grow in the vegetation.

Each fuel model is a code that represents fuel characters such of fuel bed loading at various size

classes, bulk density, heat content, and moisture of extinction. The fuel model facilitates these fuel bed inputs into a fire behavior prediction system that, based on other inputs such as fuel moisture and weather conditions, calculates fire behavior characteristics such as flame length and rate of spread.

In determining the appropriate fuel model to apply to an area, it is critical to consider the fuel that will actually carry the fire. For example, a sparse stand of eucalyptus, or an individual tree with a grass understory may be characterized as a grassland fuel model because the eucalyptus leaves and branches may not contribute much to the fire behavior because of the minor amount of leaf drop, or because the height at which the branches start so high it is unlikely to burn.

The six properties of fuel complexes that determine the potential fire behavior include quantity (loading), sizes (distribution of fuel particle sizes), chemistry (volatile content, silica-free ash content), moisture (percent water content, proportion of dead material in the vegetation, etc.), continuity (vertical and horizontal), and compactness (depth). These properties change over time with treatments, vegetative growth, or disturbance.

In the site analysis area shown in Figure 12 there are three Non-Burnable fuel types, two Grass fuel models, two Grass-Shrub fuel models, three Timber-Understory Fuel Models, and five Timber-Litter Fuel models. One Shrub model covers a very small area (.01 acre). In the site analysis area shown in Figure 24 slightly more than one-third is categorized as Non-Burnable, 12 percent is categorized as Grassy fuel models, and approximately 6 percent as Grass-Shrub. These are generally located on the valley floor in the western portion of the site analysis area shown. Half the area is equally divided between Timber Understory fuel models (i.e., wooded with vegetation under the tree canopy) and Timber Litter fuel models (i.e., wood areas where the leaf litter and branches cover the forest floor). The areas with tree canopy are generally found at higher elevations and to the north and south of the plan area.

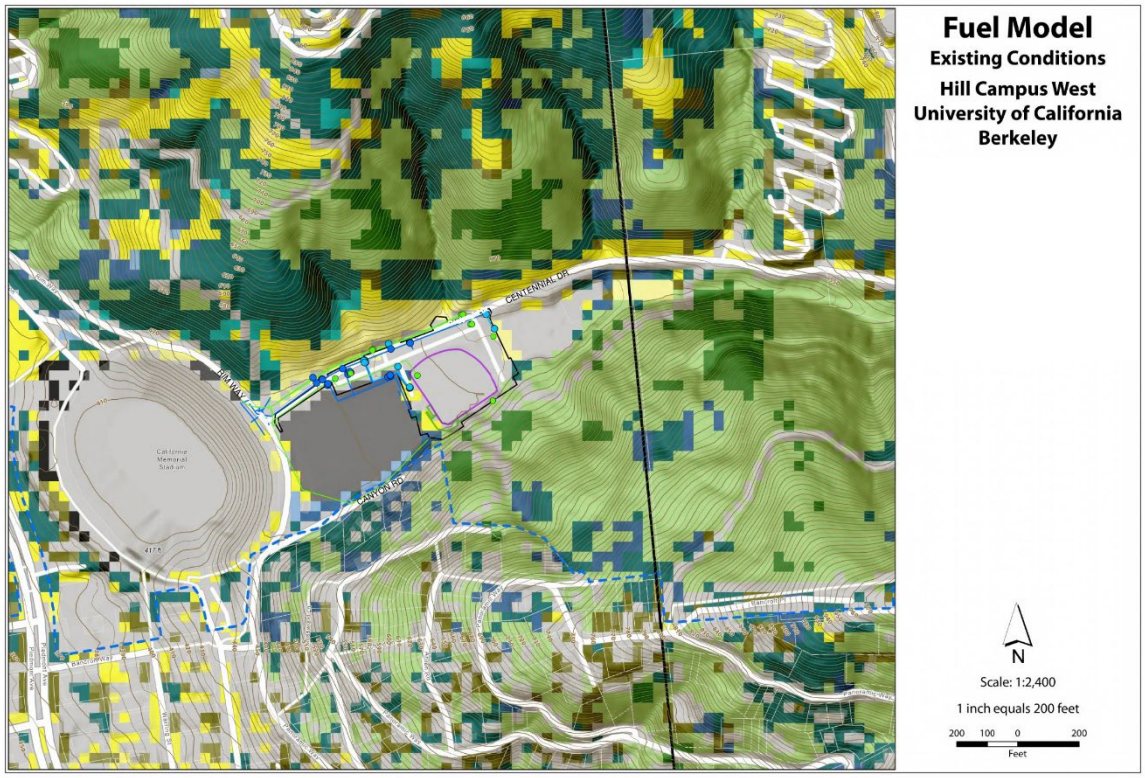


Figure 12: Current distribution of fuel models in site analysis area

3. Description of Existing Fire Hazard

Most fire hazard evaluation tools utilize the three main factors of fuels, weather, and topography, with possible inclusions of elevation, or fire history.

In 2007, CAL FIRE mapped Fire Hazard Severity Zones (FHSZ) for the entire state of California. The map delineates areas of varying levels of fire hazard based on vegetation, topography, weather, and human-made structures. This hazard assessment is officially linked to land use decisions and to indicate where different construction practices are to be followed in order to reach an acceptable level of risk from wildfire. Thus, of the various ways to classify hazard, the FHSZ is shown in this analysis. Other assessments of fire hazard show where the vegetation may be more or less severely burned and still others prioritize the hazards of populated areas. These hazard assessments appear in Appendix I.1. Figure 13 illustrates the very high severity zones existing in the East Bay hills due to high population, topography, and heavy fuel loads. Mapping of the Very High Fire Hazard Severity Zones (VHFHSZ) is based on data and models of potential fuels over a 30-50 year time horizon and their associated expected fire behavior, and expected burn probabilities to quantify the likelihood and nature of vegetation fire exposure (including firebrands) to buildings. CAL FIRE created this state-wide data layer to show areas of significant fire hazard based on vegetative fuels,

structure density, terrain, weather, and other relevant factors. Details on the project and specific modeling methodology can be found at http://frap.cdf.ca.gov/projects/hazard/methods.html.

Through these maps, CAL FIRE also recognizes "State Responsibility Areas" (SRAs) and "Local Responsibility Areas" (LRAs). SRA or LRA status indicates which agencies will respond to fire occurring in specific areas. Map users may click on areas of the map to see both the hazard classification and SRA / LRA status. In LRA areas, CAL FIRE did not map any areas that were below the very high severity classification. The entirety of the site analysis area is classified as a LRA and is in a VHFHSZ.

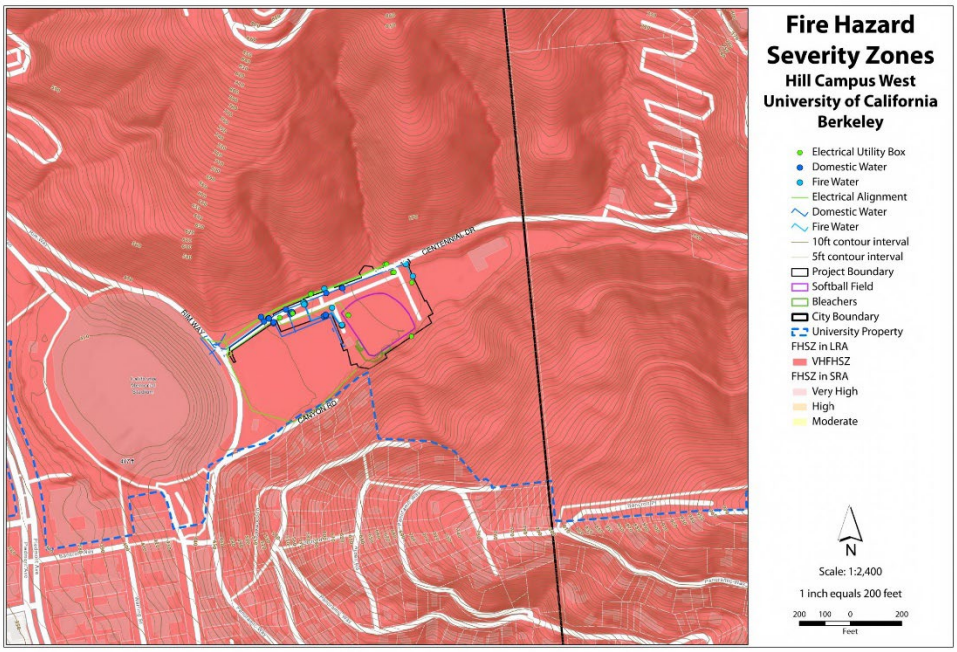


Figure 13: Fire Hazard Severity Zones

D. Predicted Existing Fire Behavior

FlamMap, a computerized fuel and fire behavior prediction model, was used in this analysis to predict fire behavior. Environmental conditions used as inputs were the same as those used by CAL FIRE to categorize lands into the Fire Hazard Severity Zones. These include windspeeds of 20 miles per hour, and very dry dead and live fuel moistures. FlamMap assumes the entire plan area is on fire under the same weather and fuel moisture conditions. Outputs and comparisons can be used to identify the spatial distribution of hazardous areas, as determined by flame length, rates of fire spread, crown fire potential, or combination thereof. The analysis indicates that with existing conditions, a third of the plan area is non-burnable, and that fire behavior on the valley floor and project site are benign. Outside the project site, flames, rates of fire spread and crown fire potential are moderate to hazardous. Additional information on Predicted Fire Behavior can be found in Appendix I.2.

1. Existing Flame Length

Predicted flame lengths tend to be practically non-existent within the project site and low immediately south of the project site, with flames shorter than four feet. Isolated pixels of 10 meters square indicate long flames are to be expected within 150-feet of the project site, where landscaping

shrubs and low branches of landscaping trees form flammable opportunities for fire to burn with intensity. The south-facing slopes opposite the project site are expected to burn with flame lengths longer than 20 feet in some locations. Locations further down the slope are expected to burn with shorter flame lengths.

Even before any vegetation treatment, within the 202-acre site analysis area shown in Figure 12, one-third of the site analysis area is not predicted to burn. Vegetation is predicted to burn with flames shorter than two feet in 15 acres, five percent of the area shown. Vegetation is expected to burn with flames between two and four feet in almost a quarter of the site analysis area. Flames burning between four and eight feet are expected to be present in a wildfire in 18 percent of the site analysis area. Longer flames are expected in the remaining 38 percent of the area, with flames between eight to 12 feet expected on nine percent of the site analysis area, and flames between 12 and 20 feet, and greater than 20 feet both predicted to cover five percent of the site analysis area shown in Figure 14.

	Untreated	
Flame Length Class	**Acres**	**Percent**
No predicted fire	97	33%
Less than 2 ft	15	5%
2.001 - 4	70	24%
4.001 - 8	52	18%
8.001 - 12	27	9%
12.001 - 20	16	5%
Greater than 20 ft	15	5%

Table 1: Untreated Flame Length Class

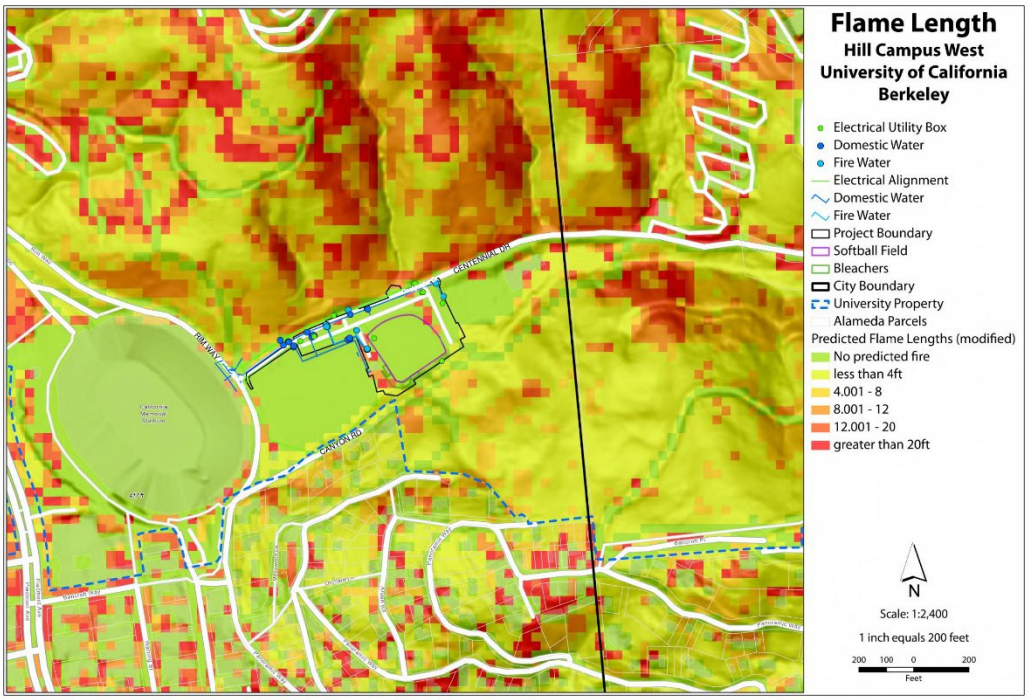


Figure 14: Flame Length Map

2. Existing Rate of Spread

The immediate project site is not predicted to burn, or facilitate fire spread, due to the presence of non-combustible surfaces, whether it is pavement or irrigated turf. Rate of spread is predicted to be highest on the slopes opposite the ballfield, with spread rates greater than 20 feet per minute on east-facing slopes. In contrast, fire spread rates are generally slower than five feet per minute south of the ballfield. Rates of spread are often propelled by steep slopes, wind, abundance of grass, and in this case, plentiful shrubby understory vegetation.

Fires are not predicted to spread on a third of the site analysis area shown in Figure 15 and a small area (one acre) is expected to burn with a rate of spread less than one foot per minute. The remaining area is evenly split between three fire spread classes. A slow-moving fire (one to five feet per minute) is expected on 18 percent of the site analysis area. Fire spreading at a rate of five to ten feet per minute is predicted for 20 percent of the site analysis area shown in Figure 15. Faster spread rates (10-20 feet per minute) are expected – all outside the project site - on 13 percent of the area, and fast fires (greater than 20 feet per minute) are expected on 16 percent of the site analysis area.

Rate of Spread Class	Acres	Percent
No predicted fire	97	33%
Less than 1 ft/min	0.6	0.2%
1.001 - 5	51	18%
5.001 - 10	59	20%
10.001 - 20	37	13%

Table 2: Untreated Rate of Spread Class

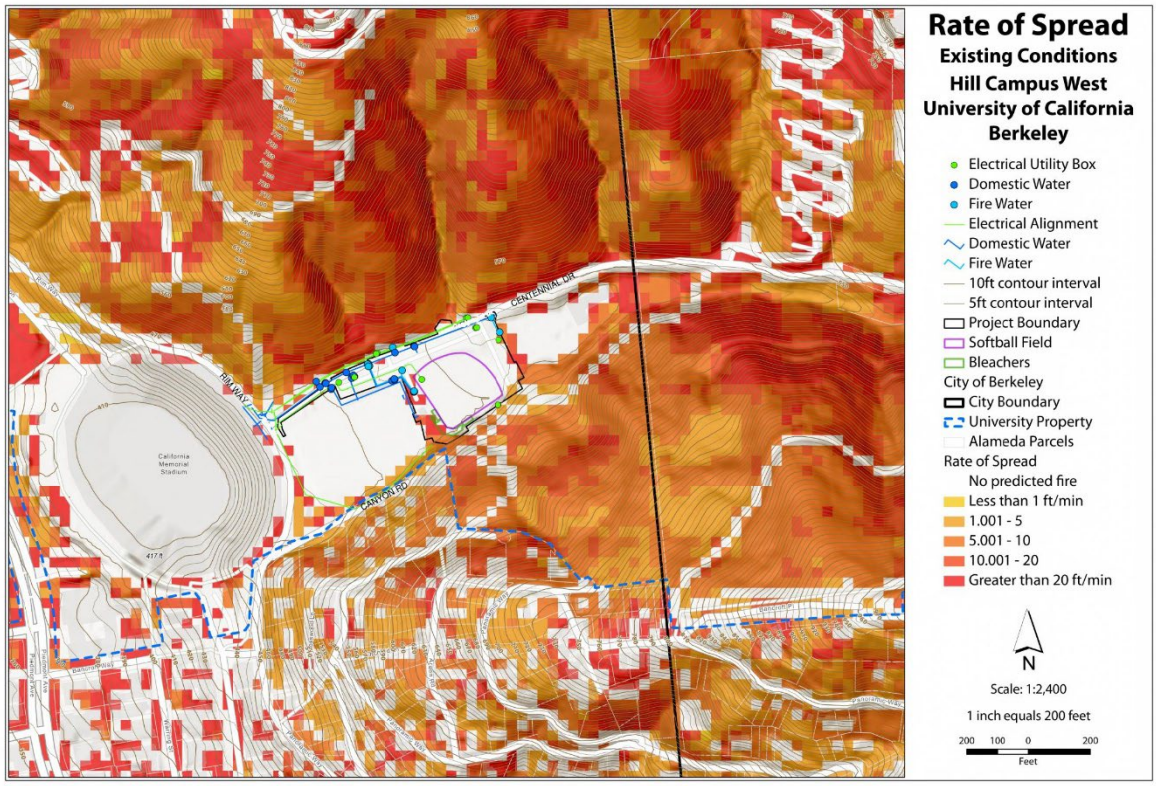


Figure 15: Rate of Spread Map

3. Existing Crown Fire Potential

Similar to previous fire behavior predictions, the project site and its immediate environs are not predicted to exhibit crown fire activity, where fire moves from canopy to canopy independent of the surface fire. The trees adjacent to the structures and ballfield are predicted to torch, which entails the combustion of the tree canopy without spreading as a crown fire. Torching is also predicted to occur south of the ballfield in small areas due to the current presence of lower branches and understory shrubs; this indicates a need for trimming of lower branches and removal of shrubs.

The trees on the slope north of Centennial are expected to torch, probably due to the understory shrubs, which promotes flames long enough to reach the tree crowns.

As described in the section describing flame length and rate of fire spread, within the site analysis area shown in Figure 16, one-third of the area is not expected to carry a wildfire. Another third of the area is expected to torch. The remaining third is predicted to burn with a surface fire.

Crown Fire Activity	Acres	Percent
No predicted fire	97	33%
Surface fire	93	32%
Torching fire	102	35%
Crown fire	0	0%

Table 3: Untreated Crown Fire Activity

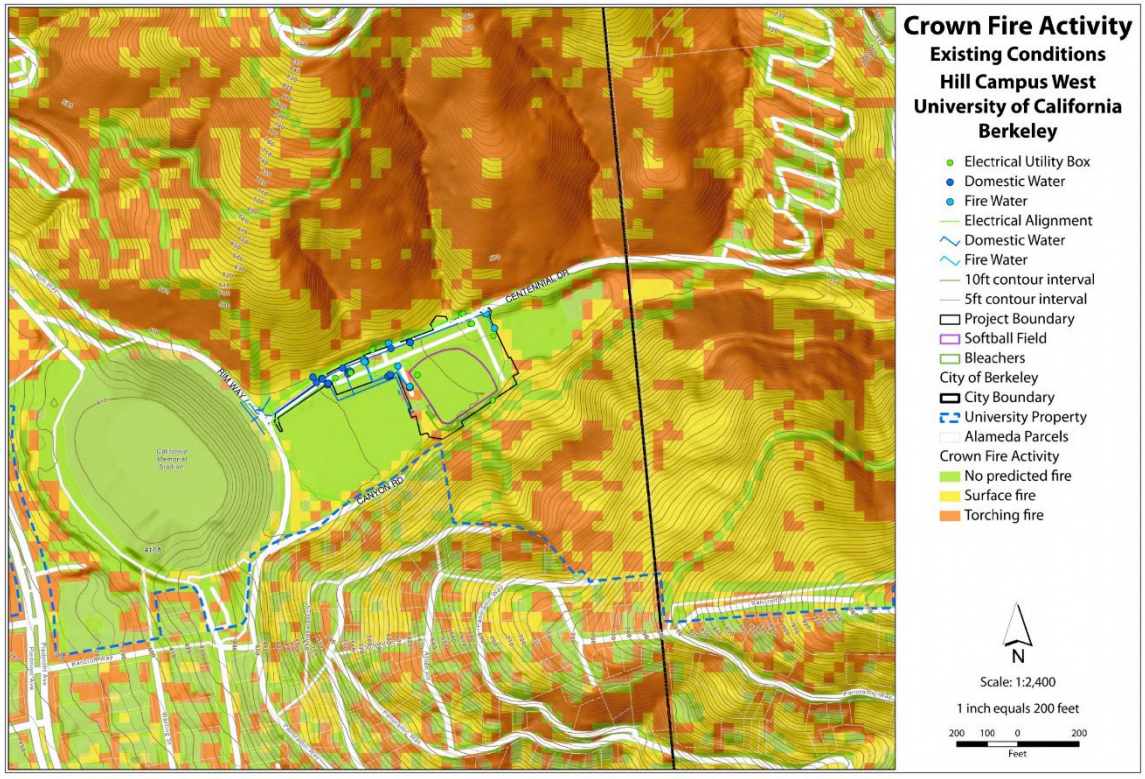


Figure 16: Crown Fire Activity Map

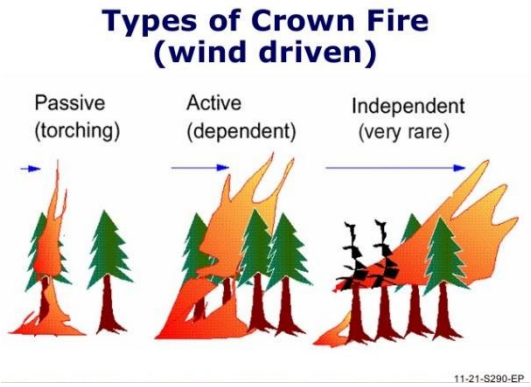


Figure 17: Three Types of Crown fire (from Finney 2007)

E. Nearby Departments and Services

The project site is located within close proximity to several emergency services, including fire stations, police stations, and a variety of health services facilities.

Fire Stations located within the project vicinity include those operated by Berkeley Fire Department, Oakland Fire Department, and Alameda County Fire Department. The nearest fire station is Alameda County Fire Station No. 19, located on Lawrence Road in the LBNL, 1.2 road miles from the site. The second-nearest fire station is Berkeley Fire Station No. 3, located at 2710 Russell Street in Berkeley, 1.3 road miles from the site.

Police Stations located within the project vicinity include those operated by the University of California Police Department, Berkeley Police Department, Albany Police Department, Oakland Police Department, and Alameda County Sheriff Department. The nearest police station is the University of California Police Department located at 1 Cross-Sproul Path, 1.0 road miles from the site. The second-nearest police station is the Berkeley Police Department located at 2100 Martin Luther King Jr Way, 1.8 road miles from the site.

The project site is located within proximity to a large quantity and diversity of health service facilities, including public hospitals and private/University-run clinics; hospitals will be the primary receiver of patients in the event of a wildfire or similar event. The nearest hospital is the Alta Bates Summit Medical Center |Alta Bates Campus located at 2450 Ashby Avenue, 1.7 road miles from the project site. The second-nearest hospital is the Kaiser Permanente Oakland Medical Center located at 3600 Broadway, 5.5 road miles from the project site.

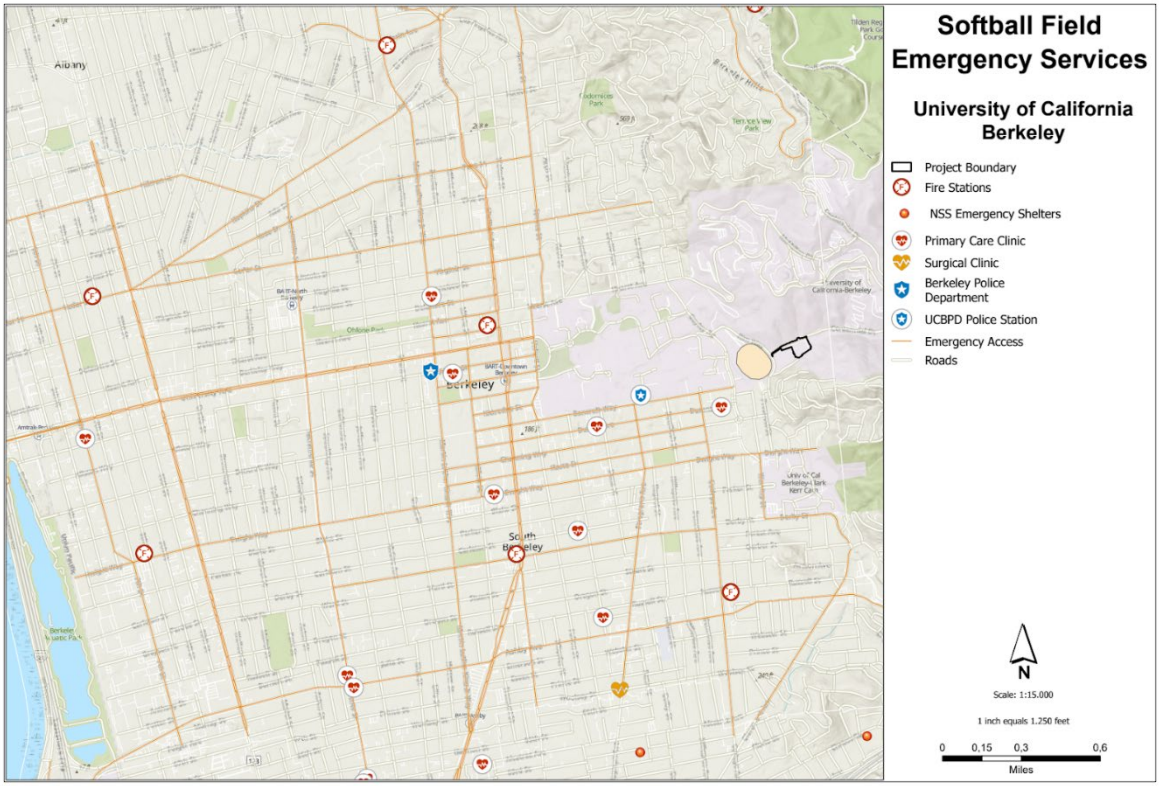


Figure 18: Emergency Services Map

III. PROPOSED CONDITIONS

The use of proposed softball field will be the same as that of the existing softball field, and will provide an additional 171 spectator seats for a total of 1,511. The primary physical changes include providing additional permanent spectator seats in place of temporary bleachers, press box, spectator concourse, restrooms, team and locker rooms, ticket booth, improved training facilities (e.g., batting cages); field amenities include replacement competition-grade lights, public address system, expanded playing field dimensions, and replacement synthetic turf; and site amenities include entry plaza, landscaping, sustainable design features, access and bus stop improvements, and utilities. The proposed project will remove approximately 85 parking spaces and retain approximately 25 parking spaces in the existing Witter Lot.

A. Water and Electrical Infrastructure

Utility infrastructure is critical to any proposed development, with water infrastructure crucial to protecting property from the impact of fire and electrical infrastructure crucial for maintaining an operational facility. As electrical distribution infrastructure has the potential to ignite of wildland fires, it is imperative that this risk be minimized by installing and maintaining the infrastructure per all applicable codes.

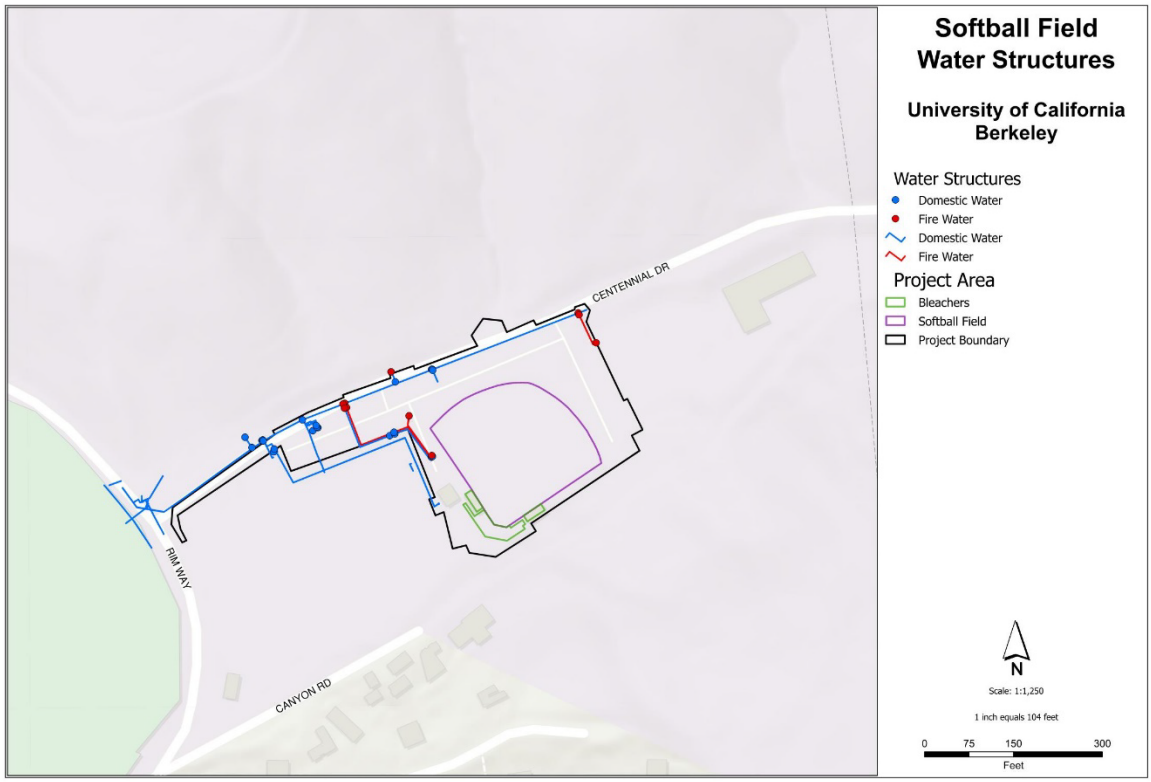


Figure 19: Proposed Condition Water Utilities

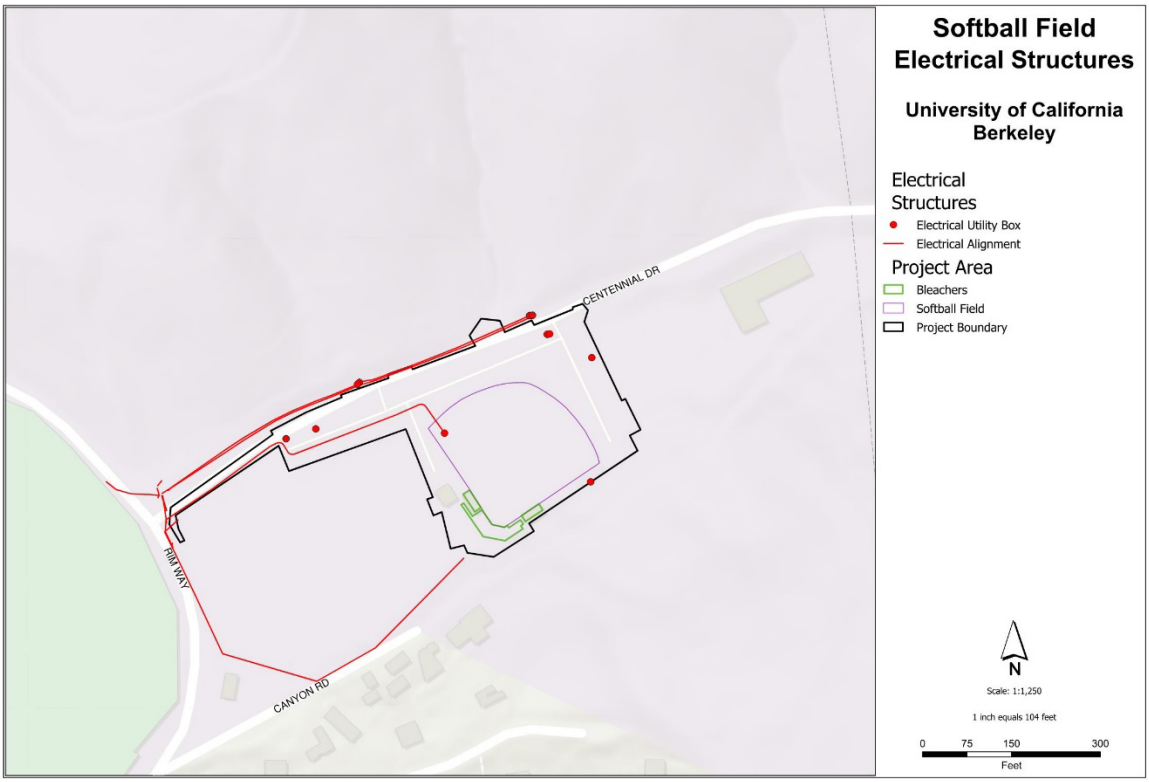


Figure 20: Proposed Condition Electrical Utilities

The proposed project will be served with electricity and water by the University's existing water and electrical distribution system, proposed systems must be installed in compliance with current codes. Subgrade electrical lines will run from the at-grade electrical cabinet at the corner of Centennial Drive and Stadium Rim Way beneath the Witter Field Parking Area. This eliminates the ignition risk from aerial electrical lines. Domestic water lines will run south from the existing main beneath Centennial Drive beneath the proposed parking lot drive aisle, fire water lines will run south from the existing main beneath the proposed parking lot drive aisle and the proposed turnaround. A fire hydrant is proposed at the hammerhead turnaround, and a fire department connection is proposed west of the EVA lane.

Figures 19 and 20 above show utilities only in the proposed project condition. Utilities outside of the project site are part of existing conditions but will not be modified during project construction. For a comprehensive display of utilities in their current condition, proposed condition, and those proposed to be demolished as part of the project scope, review the following drawings from the HOK Conformed Set: C101 Existing Conditions Plan, C107 Utility Plan, and C103 Utility Demolition Plan. The PG&E distribution equipment serving residential properties along Canyon Road is not displayed in Figure 20, and is unrelated to the proposed project.

B. Drainage Infrastructure

The proposed project will expand the current storm drain system within the parking area, install a storm drain system within the fire truck turnaround area and the landscapes area northeast of the proposed field, and install a storm drain system within the synthetic turf field and concourse area, including a combination of trench drain (See HOK Conformed Set Details Drainage C 111.4 Detail 5

Trench Drain Installation and Detail 6 Trench Drain Catch Basin Installation) and tie-back wall with drain mat (See HOK Conformed Set Details Drainage C 111.4 Detail 11 Tie-Back Wall Drainage Details) to capture runoff from the southern slope. The parking area and fire truck turnaround storm drain systems outlet directly to the existing 60 inch storm drain line running beneath the site, and the synthetic turf field and concourse area storm drain system is treated by underground retention chambers (See HOK Conformed Set Details Drainage C 111.4 Detail 10 Underground Retention Storage Chambers) prior to discharging to the existing 60 inch storm drain line running beneath the site. All storm drain lines are colored high-density polyethylene.

The project site is flat aside from a ~13 percent slope between the proposed softball field and the existing Witter Rugby Field. The current elevation of the rugby field is ~480 ft; the softball field is proposed to increase from ~485 feet to ~488 feet elevation. Runoff from the proposed slope will be no more difficult to stabilize than the existing slope utilizing standard Best Management Practices.

As the majority of proposed design surfaces include asphaltic concrete paving, concrete paving, synthetic turf, decomposed granite, or grass pavers, the risk of erosion is minimal even if the site is impacted by wildland fire. Landscaped areas around the parking area and improved softball field include biofiltration sod, ornamental grass mixture, Native Bentgrass, and organic mulch, which will decrease the amount of runoff generated from the site. Should the synthetic turf or structures become impacted by fire, appropriate Best Management Practices will be implemented to ensure resulting debris do not enter the storm drainage system or the drainage ditch south of the proposed facility. This is described in Appendix VI.C.2.

C. Access for Emergency Responders and Evacuation

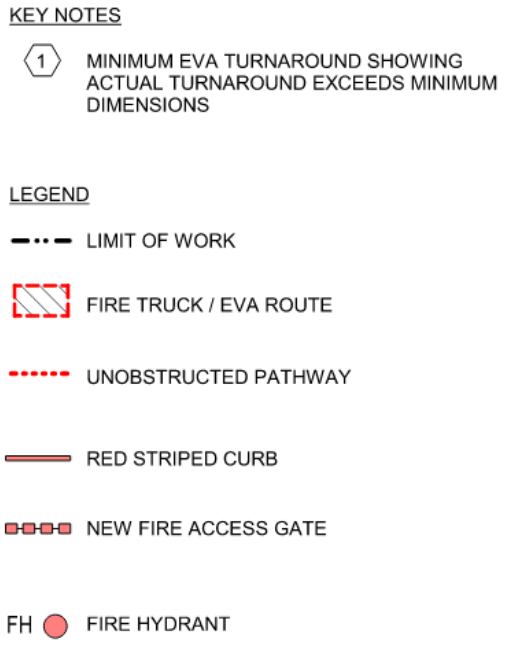
At the project site, Centennial Drive's 20 feet width is sufficient for EVA, and a hammerhead turnaround is proposed at the northeastern corner of the site near Strawberry Canyon Recreation Center. Traveling south from Centennial Drive, the turnaround consists of red striped two feet roll curb and gutter, red striped two feet flush concrete ribbon curb, new asphalt paving for Traffic Index 7, and heavy loading concrete. The proposed hammerhead off Centennial Drive provides a turnaround for fire apparatus at the project site, rather than requiring travel to the Botanical Garden, which is currently the next opportune location. Per communication with the Campus Fire Marshall, Centennial Drive continues to be used as the fire access to the project site. It is used as a fire apparatus access road to neighboring facilities by the city's fire responders. It has fire hydrants along the way.

A fire hydrant is proposed at the hammerhead turnaround, and a fire department connection is proposed west of the EVA lane. Fire apparatus may also be staged near the hydrant at the north corner of Centennial Drive and Stadium Rim Way, and near the hydrant at the driveway of the Strawberry Canyon Landscape Services Center at 5 Centennial Drive.

Emergency Vehicle Access (EVA) is provided to the proposed softball field via a lane running from Centennial Drive onto the softball field itself. Traveling southward from Centennial Drive, the EVA lane consists of 2 feet roll curb and gutter, removable bollards providing access to fire department and police department personnel, cast-in-place pedestrian concrete, grass pavers providing all weather driving capability of fire apparatus up to 75,000 pounds (See HOK Conformed Set Site Details L 320 Detail 2 Grass Pavers - PV-5), an access gate to the field, and synthetic turf with eight inch permeable aggregate base. A solid white line, rather than solid red line, is proposed at the two inch roll curb and gutter on Centennial Drive. Per CFC Section 503.1.1. Fire apparatus access roads are required within 150 feet of all portions of the exterior walls at the 1st story. The design and

construction of the EVA to the proposed structures must upon completion of the project conform to code requirements; variations may be granted by the Fire Authority having jurisdiction.

Per the project team, the entrance to the Softball field is equipped with a gate/double doorway equipped with a Knox box. A Knox box is designed to be located on the exterior of the building that stores the necessary keys for personnel to respond to an emergency.



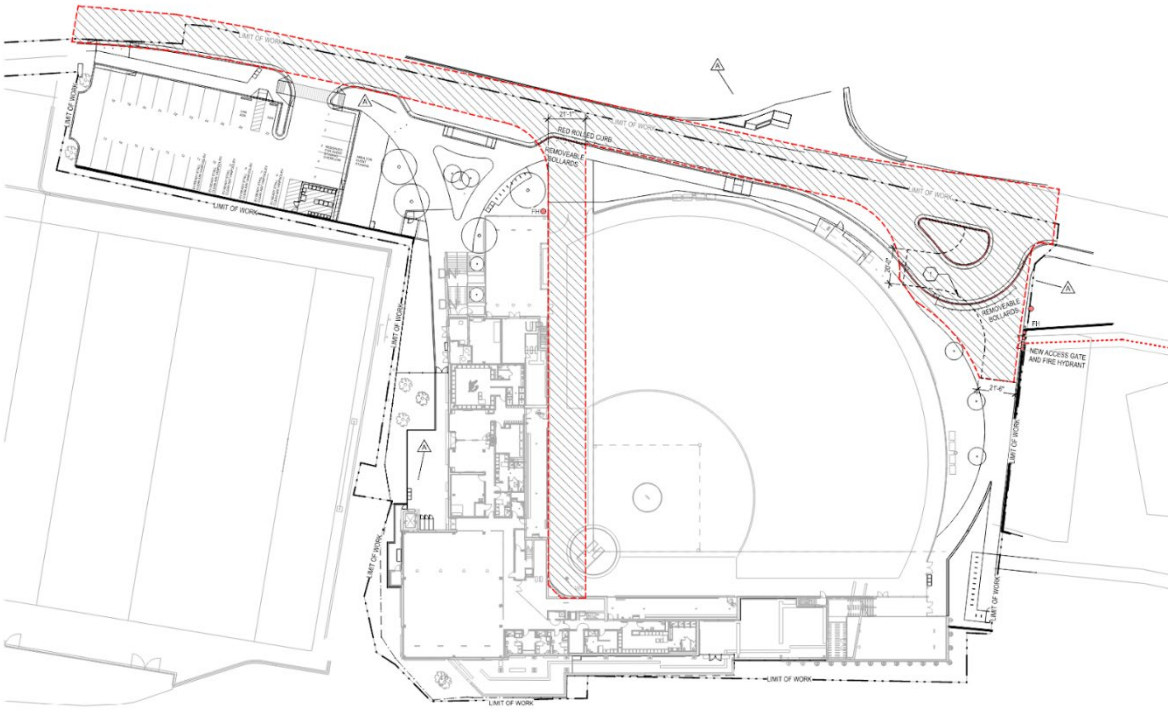


Figure 21: EVA Plan (HOK Conformed Set)

D. Site Furnishings

Site furnishings include the proposed conditions of the buildings, hardscape, landscaped areas, and the field itself.

Because the buildings on the project site will be built with ignition-resistant construction, they would not be expected to contribute to fire spread. The significant areas of pavement and hardscaping are inflammable (See HOK Conformed Set: C106.1 Surfacing Plan, L501 Planting Plan - Sector A, L502 Planting Plan - Sector B, L503 Planting Plan - Sector C, and L504 Planting Plan - Sector D).

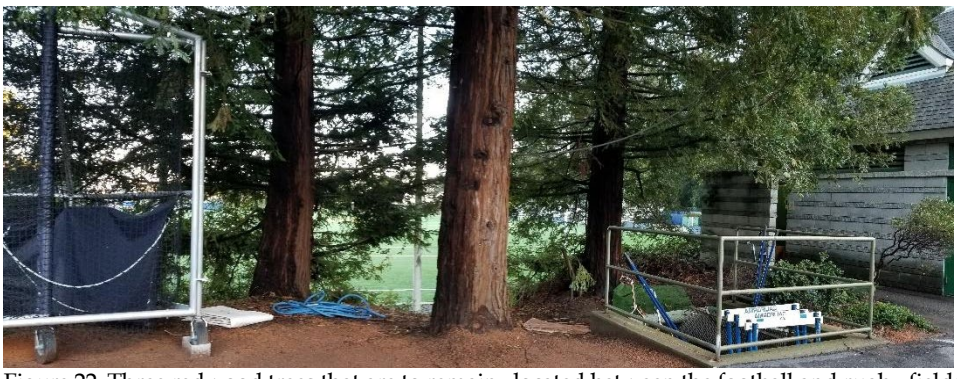


Figure 22: Three redwood trees that are to remain , located between the football and rugby fields. Source: Carol Rice


Figure 23: Existing leaf litter and understory shrubs between the softball field and the rugby field. Source: Carol Rice

The types of plants selected, and their placement, spacing, and density are all compatible with fire-resistant landscaping. The trees are widely spaced, with no understory shrubs planned. The types of trees are those that have high ignition-resistance. For example, the California buckeye usually loses its leaves by the height of fire season, which greatly diminishes the hazard it poses in a wildfire. The planting plan for the proposed project can be found in the design drawings (HOK Conformed Set: L501 Planting Plan - Sector A, L502 Planting Plan - Sector B, L503 Planting Plan - Sector C, and L504 Planting Plan - Sector D). The project will remove much of the untended and flammable vegetation, and the remaining vegetation will be treated and maintained to prevent ignition and torching (See HOK Conformed Set Sheet L002 Tree Disposition Plan). Similarly, young and tended landscaping is also ignition resistant. This is because the vegetation in landscaping is typically irrigated and relatively free of dead material, and spacing is maintained. Because of these characteristics, replacement landscaping would not be likely to contribute to wildfire spread.

E. Wildfire Behavior with Treated Fuels

1. Fuel Types With Treatment

Vegetative fuel treatments will take place consistent with the WVFMP. This will entrail creating and/or maintaining defensible space for 100-ft from the project boundary, which extends into the other Athletics facilities in Strawberry Canyon, including the Witter Rugby Field to the west and Strawberry Canyon Recreation Center to the east, and the vegetated slope south of the project site. Treating the vegetation, as is planned with the ongoing implementation of the WVFMP, would change two fuel models, TU 2 (Low Load Broadleaf Litter) and Moderate Load, Humid Climate Forest-Grass-Shrub, reducing them by 0.37 acres, and 0.32 acres, respectively. These fuel models would change to TU1 Low Load Dry Climate Forest-Grass-Shrub, resulting in 0.69 acres of this fuel model, which generally produces more benign burning conditions.

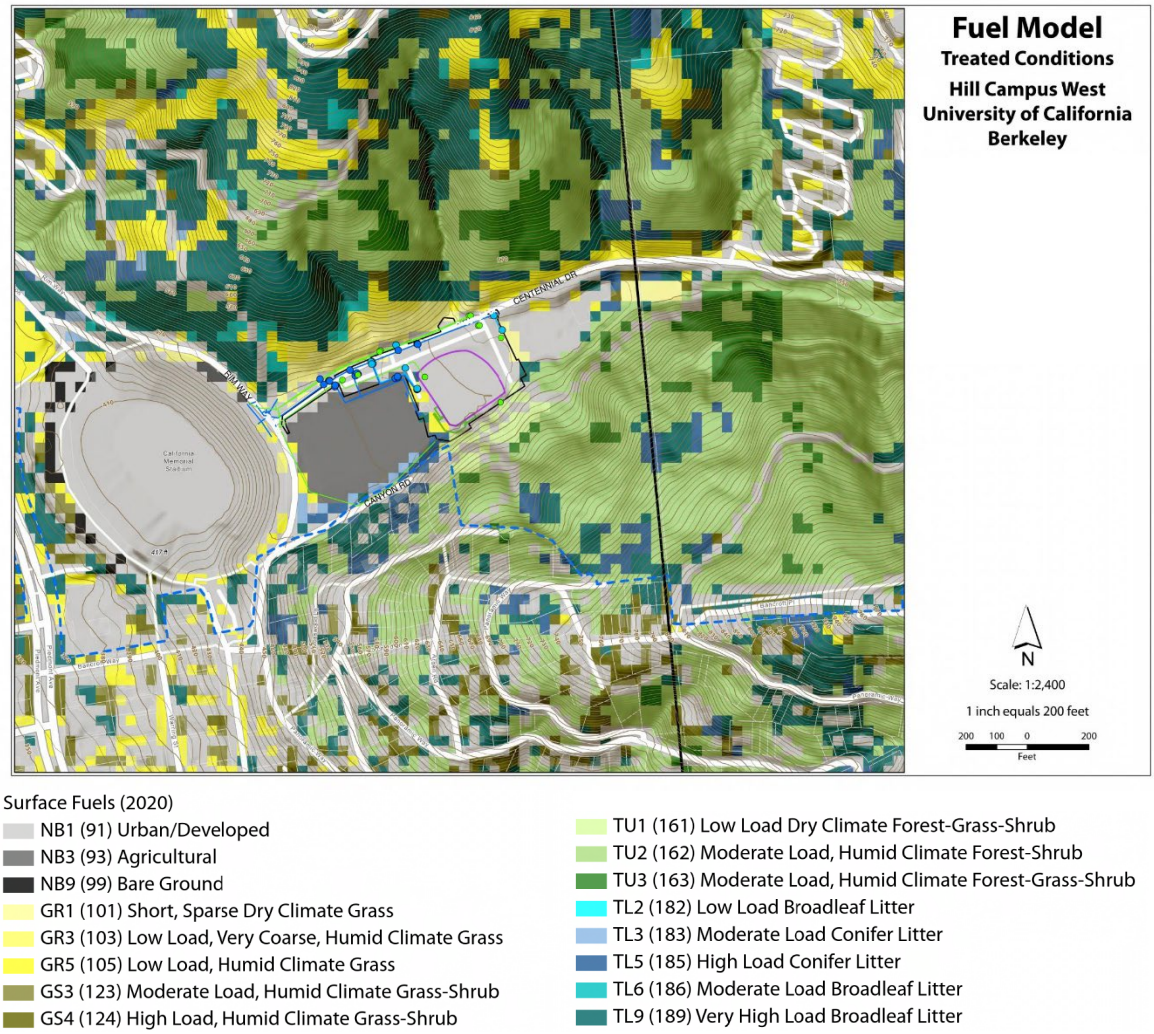


Figure 24: Distribution of fuel models in plan area with proposed project conditions.

2. Flame Lengths with Treated Fuels

Flame lengths are reduced in three categories by treating vegetation consistent with the WVFMP. The acreage that experiences flames between eight to 12 feet in length is reduced by 0.15 acres, and between four to eight feet in length is reduced by 0.17 acres, and between two to four feet in length is reduced by 0.37 acres. The site analysis area expected to burn with flames shorter than two feet increases by 0.69 acres, due to treatment. The longer flame lengths did not change because they are located away from the ballfield and are not treated. These treatments outside of the plan area are not a component of the project but are part of the ongoing implementation of the WVFMP.

	Untreated		Treated		Difference
Flame Length Class	**Acres**	**Percent**	Acres	Percent	Acres
No predicted fire	97	33%	97	33%	0.00
Less than 2 ft	15.2	5%	14.55	5%	0.69
2.001 - 4	69.58	24%	69.96	24%	-0.37
4.001 - 8	52.29	18%	52.46	18%	-0.17
8.001 - 12	27	9%	27	9%	-0.15
12.001 - 20	16	5%	16	5%	0.00
Greater than 20 ft	15	5%	15	5%	0.00

Table 4: Flame Lengths of current conditions (untreated) and conditions when the project is complete and vegetation is treated consistent with the WVFMP (treated).

3. Rates of Fire Spread with Treated Fuels

	Untreated		Treated		Difference
Rate of Spread Class	**Acres**	**Percent**	Acres	Percent	Acres
No predicted fire	97	33%	97	33%	0.0
Less than 1 ft/min	0.6	0.2%	0.40	0.1%	0.2
1.001 - 5	51.4	18%	44.01	15%	7.4
5.001 - 10	58.9	20%	59.33	20%	-0.4
10.001 - 20	36.9	13%	40.28	14%	-3.4
Greater than 20 ft/min	47.1	16%	50.88	17%	-3.8

Table 5: Rate of Spreads of current conditions (untreated) and conditions when the project is complete and vegetation is treated consistent with the WVFMP (treated).

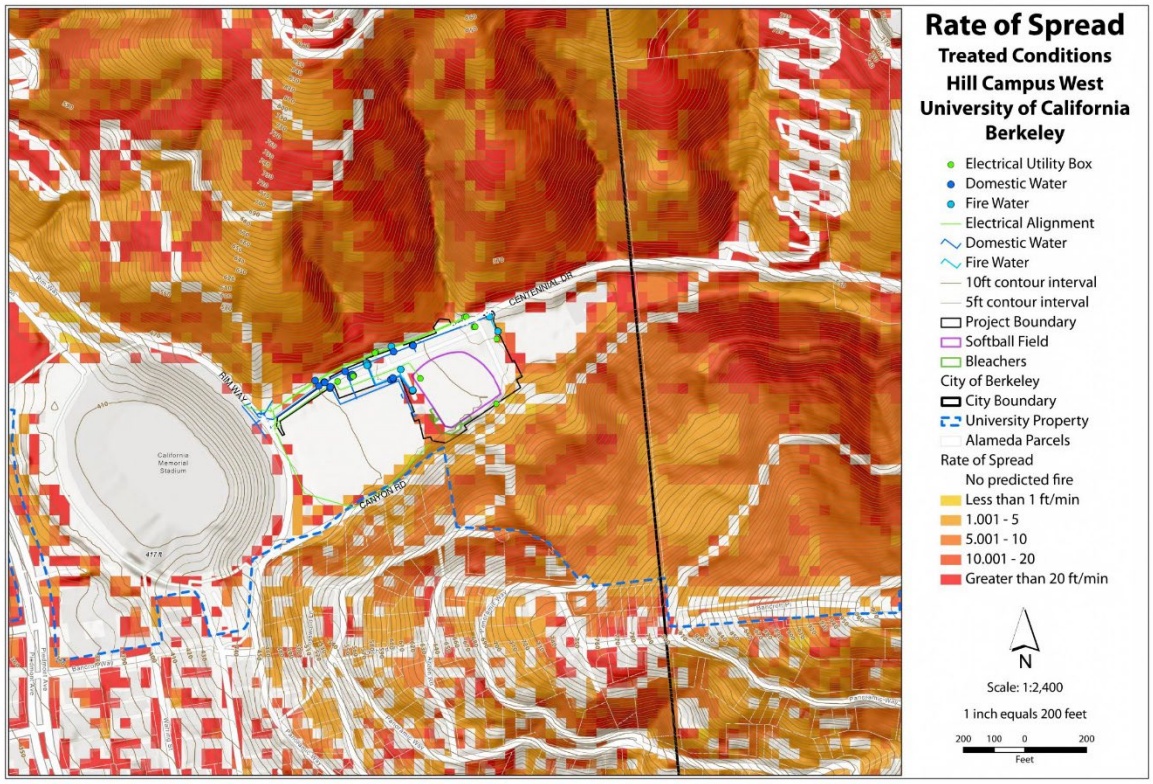


Figure 25: Rate of Spread of current conditions (untreated) and conditions when the project is complete and vegetation is treated consistent with the WVFMP (treated).

4. Crown Fire Potential with Treated Fuels

Treatments do not affect the crown fire potential as the plan areas to be treated are not predicted to torch, they were either predicted to not burn, or burn with a surface fire. These treatments outside the project site are not a part of the project but as stated previously are part of the ongoing implementation of the WVFMP.

	Untreated		Treated		Difference
Crown Fire Activity	**Acres**	**Percent**	**Acres**	**Percent**	**Acres**
No predicted fire	97	33%	97	33%	0
Surface fire	93	32%	93	32%	0
Torching fire	102	35%	102	35%	0
Crown fire	0	0%	0	0%	0

Table 6: Crown Fire Activities of current conditions (untreated) and conditions when the project is complete and vegetation is treated consistent with the WVFMP (treated).

5. Summary of Proposed Condition Wildfire Behavior

For the analysis of wildfire behavior under conditions when the project is complete and consistent with the ongoing implementation of the WVFMP, the same computerized fuel and fire behavior prediction model, FlamMap, was used. The analysis indicates that under proposed project conditions, little will change with the predicted fuel and fire behavior. The same third of the area is non-burnable, and fire behavior on the valley floor and project site are still benign. Outside the project site, flames, rates of fire spread and crown fire potential continue to be moderate to hazardous.

There is potential risk to the site from ignition due to unhoused populations within the Strawberry Canyon, but this risk is not expected to be affected by the project. The project is not expected to increase the risk of ignition from these populations. In addition, as described in Section 4a, all electrical power lines added by the proposed project would be underground. Therefore, no increased wildfire ignition risk would be anticipated from the sources discussed in 5b.

Although the risk from ignition sources associated with construction (mechanical use, vehicles, and smoking) could increase with the proposed project, the reductions in risk provided by replacement of approximately 0.7 acres of fuel (grassland) with less flammable vegetation, improved access, water supply, and water delivery systems; and informational signage and awareness regarding red flag days would more than offset whatever increased risk may be associated with construction.

F. Summary of Proposed Conditions

- **Water and Electrical Infrastructure**
    - Hydrants at the project site are serviced by the existing water main. A fire hydrant is proposed at the hammerhead turnaround on Centennial Drive, and an FDC is proposed west of the EVA lane.
    - The project will be permitted through the campus Fire Marshall for compliance with Fire Hydrant coverage of the proposed buildings. Proposed subgrade electrical systems do not pose significant ignition risks, and must meet current codes.

- **Drainage Infrastructure**
    - The proposed changes to the drainage systems do not appear to have an impact on the vulnerability of the site to wildfire, or increased hazard after wildfire.

- **Access for Emergency Responders and Evacuation**
    - Upon completion of the project fire apparatus access to within 150' of all portions of the exterior walls of the 1st story must be provided.

- **Site Furnishings**
    - Because the buildings on the project site will be built with ignition-resistant construction, they are not considered to contribute to the spread of a fire. The significant areas of pavement and hardscaping are inflammable.
    - The proposed changes to site furnishings appear to reduce the vulnerability of the site to wildfire, and the likelihood of the project site contributing to a wildfire.

IV. WILDFIRE RISK REDUCTION ACTIONS

The objectives of the Wildfire Protection Plan follow the nationally accepted priority of protecting

life safety, followed by property and then natural resources. This Wildfire Protection Plan details actions to take that will reduce the hazard and risk from existing and proposed conditions. More details are offered below:

A. Ensuring Fire Safety (for students, staff, visitors and neighbors)

First, implementation of the project and this plan increases the plan area and its environs' resistance to catastrophic wildfire, there will be a corresponding reduction in the potential for loss of human life and property damage from wildfire. This plan also includes project elements and recommendations to mitigate any project related features. In addition, UC Berkeley should maintain an active role in regional efforts to reduce wildfire hazard in the East Bay hills. Because the Athletics Department has two facilities in the Hill Campus, representatives should attend the Fire Mitigation Committee meetings, held quarterly, as sponsored by the Facilities Department.

B. Ignition Prevention

Ignition prevention entails reducing the chance of fire ignitions, thereby reducing the chance that a wildfire would escape the initial control efforts by local firefighting staff. Some examples of ignition prevention activities include preventing electrical device failures, eliminating vegetative tinder near vehicles, thinning vegetation to reduce the likelihood of ember production in a wildfire event starting new fires (known as ember cast), and promoting fire-resistant native plant species to reduce wildfire risks and enhance biodiversity and controlling/eliminating unauthorized occupation or habitation of unhoused individuals living in the high-risk areas. It has been proven time and again that prevention is less costly and more effective than suppressing fires.

Education can be the main vehicle for change of attitude and behavior that both transfers information, and creates peer pressure to adopt new behaviors. Signage programs for community-wide ignition reduction will include a standard no-smoking warning in and around the project site, as well as dynamic public warnings, like the updateable CAL FIRE fire danger signs, that reflect the level of fire danger that changes with environmental conditions. Signs in the Ecological Study Area already indicate the hazards in the area, and have no smoking prohibitions. Signs can target trails, parking areas, and picnic areas to provide additional safety messages, or can also be expanded to increase the general awareness of fire weather. In this case, the Athletics Department will be responsible for determining the fire danger from the National Weather Service website (NOAA LBNL) on game days, and relaying that information to Facilities Services so that the signs can be updated. The National Weather Service issues red flag warnings when critical fire conditions are present in the next 24 hours due to a combination of dry air, strong winds and warm temperatures. Contractors and UC staff can also sign up with AC Alert to receive notifications (Alameda County).

National Weather Services will also issue red flag alerts up to 72 hours before an anticipated red flag warning. Certain types of fuel abatement work should be suspended during peak fire risk events. Similarly, contingency planning for athletic events should be considered if they are to occur during a high fire danger period, even though this is highly unlikely because of the spring-time softball season that has little overlap with red flag warnings or high fire danger If an extreme red flag warning were to occur during a softball game, alternate locations or schedule will be considered by the campus.

The annual vegetation management under the WVFMP will be continued to maintain defensible space near buildings that is less ignitable. Enforcement is an important ignition prevention strategy;

the UC Hill Patrol routinely monitors for inappropriate behavior and could be a required presence in the plan area on days when fire danger is high. The patrols would travel on both slopes above the ballfield -those to the north and south, traveling through Tightwad Hill, up to the Strawberry Maintenance Yard, Big C and south of the site, up Panoramic Hill, at the end of Mosswood and Canyon Dr., and behind the Strawberry Recreation Area. Inspections of facilities for fire code compliance will be done annually, possibly in conjunction with inspection of vegetative fuel conditions; the defensible space vegetation management must be maintained year-round, consistent with PRC 4291.

Vehicle fires are a cause of wildfires, from, for example, malfunctions or collisions. Due to the project, fewer vehicles will be present in Strawberry Canyon near the project site, which equates to a slightly lower risk of ignition.

Because wildfires are often started during construction, a specific construction fire prevention plan has been developed and included as Appendix C.2. This plan requires that construction activities be modified to reduce chance of ignition during times of elevated fire danger and cease when a red flag warning is in place.

The project is not expected to increase the risk of ignition, when coupled with the additional project elements and recommendations in this plan.

C. Vegetative Hazard Reduction

In addition to increasing ignition-resistance, fuel modification is aimed at increasing the ease of containment, and thus the fire size, and lowering fire intensity to eliminate or reduce the damage to structures and adverse environmental effects to the natural environment. Vegetation treatments reduce fire intensity and increase the probability of containment of a future fire. Vegetation management treatments include: mowing grasses; pruning lower limbs of trees; and removing understory shrubs. Reducing fire intensity near structures is especially important to reduce the chance of structure damage or loss.

The vegetation management activities identified in the Hill Campus WVFMP will be followed. Facilities Services already maintains the plan area within 100 feet of the Centennial Drive, by mowing that distance yearly. The lower branches of trees are trimmed and shrubs removed so that torching is prevented. The Athletics Department is responsible for continuing the WVFMP Vegetation standard maintenance of the plan area within 100 feet of the project site that is triggered by the renovation of the softball field because the WVFMP calls for defensible space within 100-ft of existing structures, which includes the current facility.

1. Monitoring of fuel Management Effects

Monitoring of vegetation conditions will be done in the same way as in WVFMP, focusing on invasive weeds within 100 feet of the project site. This entails site visits, observing a set list of plant types, surface soil erosion and stability, sprouting of cut vegetation, and wood chip placement and depth. In addition, yearly inspection of defensible space will be done by the University, and at intervals, by the Berkeley Fire Department. Additional information on monitoring of fuel management effects can be found in Appendix J.1.

D. Support for Wildfire Response

Any fire on the Campus is a high concern, and under severe weather conditions a fire can ignite and spread too quickly to be suppressed by local firefighting staff and equipment, threatening

structures and potentially causing unacceptable damage. Initial wildfire response is provided by the Berkeley Fire Department. This section of the Wildfire Protection Plan includes guidelines regarding Signage, training, equipment, and communication in order to support a speedy and efficient wildfire response by the Berkeley Fire Department. The following practices are all to be implemented by the campus.

The relevant parties, such as the NCAA and campus will consider modifying the location or rescheduling events based on increased risk due to weather conditions such as during a red flag warning or coincidental events.

Wildfire response can be aided by correct, official address signage in reflective, large fonts, with high-contrast. These address signs will be installed near the project site, at a location agreed-upon by the Campus Fire Marshal and Athletics Department. Water supply and fire department connections will need to be signed in a similar fashion.

Training for staff that will be present during the game is essential. Training will encompass what to do if a wildfire starts, from detection to reporting, to operations (extinguisher training) and evacuation (i.e., what protocols are there for notifying guardians of minors, Campus residents, other employees and visitors). At least one staff member will participate in a local Community Emergency Response Team (City of Berkeley CERT). Training on fire extinguisher, detection, reporting, etc. will be better done by staff at the EH&S, fire marshal's office or the FS Tree crew, which likely has a similar curriculum for when working in the Hill Campus.

Equipment, including a fire extinguisher, assists wildfire response. A water hose will be connected during events, and staff will be familiar with the location of the valve. Ensure all valves are specified to avoid water hammer damage to conveyance systems.

Communication, through radios or other means assists emergency response. Radios will be present and operated every time the ballfield is used. A contact sheet will also be present, and updated yearly. The public address system and visual/audio system will be used in the event of an emergency to assist with evacuation.

1. Pre-Incident Planning

Pre-incident planning includes the anticipation of an incident like a wildfire, and preparation for response, in the form of site-specific maps with non-obvious access places (like the access on the field), water sources, and locations of particular hazards, and familiarization of the plan area by the local fire department responding to emergencies. The Athletic Department will coordinate with the Athletic Department facilities in Strawberry Canyon and Facilities Services to create a Hill Campus pre-incident map (also known as a pre-attack map) for the lower Strawberry Canyon facilities. The Berkeley Fire Department will be invited for a tour on an annual basis, if not more frequently. If events are to take place during dangerous conditions, it may be appropriate to pre-position an apparatus at the field.

2. Detection

The purpose of detection is to quickly mobilize emergency response and evacuation. Similar to actions described in Section B, all Athletics Department staff will be trained on how to detect vegetation fires and notify the appropriate authority (to call first 911 then UCPD) when an emergency occurs. While detection is normally quite fast in the wildland urban interface, increased UCPD Hill Patrol during hot, dry times, could speed up detection. The Athletics Department will

fund the patrols that should take place during red flag warnings and encompass the plan area.

3. Notification

This plan will assist the notification of wildfires to the Berkeley Fire Department and UCPD. There is interest by the occupants of other Hill Campus facilities to have radios for use during times of emergency. This effort would be coordinated through the University Office of Emergency Management. Each facility should have a set of radios to coordinate both evacuation and to support emergency response.

4. Evacuation

The highest priority is to provide safe evacuation routes in case of fire. In addition, emergency vehicles (including firefighting equipment) need to have safe routes in order to access the scene of the fire. Evacuation plans for other facilities have been discussed in Section III.A.5 Existing Vegetation Treatments. the Athletics Department will coordinate with other Hill Campus occupants, share notification systems, and practice their plan together, annually. In all cases, evacuation should be done under guidance of the UCPD and its designee. Evacuation should be initiated earlier than required, and considered whenever a wildfire is reported in plan area. A traffic study which evaluates evacuation has been prepared by CR Associates and is titled Cal Softball Field Renovation Project Fire Evacuation Analysis.

E. Plans for Regular Inspections of Electrical Infrastructure

Above grade electrical infrastructure has the potential to be the ignition source of wildland fires, as has been seen over the past several years throughout the State of California. While the proposed softball field will receive power from the University's subgrade electric distribution system (see HOK Conformed Set: C107 Utility Plan), Pacific Gas & Electric' Berkeley F1103 Feeder, which runs above-grade along Canyon Road south of the project site, comes within 200 feet of the project site.

Per their 2022 Wildfire Mitigation Plan Update (PG&E, 2022) PG&E engages in the following mitigation initiatives to decrease the ignition risk of their distribution electric lines and equipment: asset management and inspections, vegetation management and inspections, and grid operations and protocols. Vegetation management is governed by the following four laws and regulations: California Public Utilities Commission (CPUC) General Order 95, Public Resources Code (PRC) 4292, PRC 4293, and CPUC Resolution ESRB-4. Additional information on the laws and regulations governing PG&E vegetation management can be found in Appendix E.2.

All proposed project electrical infrastructure is subgrade, and will connect to an existing electrical cabinet contained within a cyclone fencing cage located at the east end of Witter Rugby Field. From a wildland fire mitigation perspective, no inspections of the proposed electrical infrastructure will be necessary, however should UCB's Hill Campus Maintenance Staff implement the following as project elements:

1. Placement of 811 "Call Before You Dig" signage at regular intervals along the route of subgrade electrical infrastructure, and
2. Regular mowing and clearing of vegetation around at-grade electrical infrastructure.

F. Chart of staff on Campus and their roles/responsibilities in implementing the WMP

Each year the contacts in this organization chart should be confirmed or revised by the Athletics Department so that the roles and responsibilities are clear to all involved.

Annual Inspection of vegetation	Athletics, ultimately Campus Fire Marshal (EH&S)
Vegetation management	Athletics
Situational Awareness: Monitor weather conditions (for both possible Red Flag days and Smoke Days)[3]	Athletics
Training for immediate wildfire detection, notification and response	Athletics
Notification of wildfire	Athletics to 911
Wildfire response	Berkeley Fire Department
Inspection of electrical systems	Facilities Services

Table 7: WMP Implementation Roles and Responsibilities

G. Summary of Wildfire Protection Plan for Project: Project Elements and Recommendations

- **For Ignition Prevention Project Elements**
  - The site should have signs that indicate it is in a very High Fire Hazard Severity Zone.
  - The University should install a dynamic fire danger sign.

- **For Ignition Prevention Recommendations**
  - Vegetation treatments should be continued as another way to prevent ignitions.
  - The University should develop a plan for contingencies when fire danger is high and other events are held concurrently. As part of this, engines could be staged nearby and the UC Hill Patrol should be performed.

- **For fire hazard reduction Project Elements**
  - Staff should be trained regarding wildfire detection, reporting, extinguishing and evacuation.
  - Participation of at least one staff member in a local Community Emergency Response Team is advisable.
  - Fire extinguishers should be available on site.
  - Water hose should be connected during events, and staff should be familiar with the location of the valve.
  - The public address system and visual scoreboard should be used to assist evacuation guidance.
  - Communication, through radios or other means assists emergency response.
  - Radios should be present and operated every time the ballfield is used. A contact

[3] The UCB Master Campus Plan states, Wildfire smoke includes hazardous airborne particulates that can have detrimental health effects on individuals exposed to them as a result many schools and workplaces, including UC Berkeley, have encouraged their students and employees to remain indoors during designated smoke days.

sheet should be also present, and updated yearly.
    - Tours by the Berkeley Fire Department should be done on an annual basis, if not more frequently.
    - The Athletics Department should coordinate with other Hill Campus occupants, share notification systems, and practice their plan together, annually.
    - The Athletics Department should attend the quarterly Hill Fire Mitigation Committee meetings.

- **For fire hazard reduction Recommendations**
    - The Athletics Department should be responsible for continuing the maintenance of the plan area, using the same standards as in the WVFMP.
    - The University should develop a Hill Campus pre-attack map for the lower Strawberry Canyon facilities.

- **Monitoring**
    - Vegetation should be monitored annually consistent with the Hill Campus WVMP.

V. SUMMARY

This Wildfire Protection Plan evaluates how the project will affect the risk of wildfire to the project site, and the project site's impact on wildfire risk to the plan area. The document provides project elements and recommendations to reduce both of these risks. Though no site is ever immune from wildfire risk, the proposed project, including the site-specific project elements contained herein, would reduce the risks. The project elements and recommendations implemented for the project will reduce ignitions through restrictions on human behavior and through fuel modification to make the vegetation less ignitable. Together, these project elements and recommendations would reduce the risks of ignition, slow fires if they do ignite, provide protection for areas most at risk, and provide safe evacuation and access routes.

VI. ACRONYMS AND GLOSSARY

A. Acronyms

BTU/lb - British Thermal Unit per pound
BMP - Best Management Practice
CAL FIRE - California Department of Forestry and Fire Protection
CAL/OSHA - Division of Occupational Safety and Health
CBP – Continuing Best Practices
CDFW - California Department of Fish and Wildlife
CEQA - California Environmental Quality Act
EMP - Environmental Mitigation Program
FHSZ - Fire Hazard Severity Zones
FRAP - Forest Resource Assessment Program
GPS - Global Positioning System
IC - Incident Commander
ICS - Incident Command System
LBNL - Lawrence Berkeley National Laboratory
LRDP - Long Range Development Plan
MOU - Memoranda of Understanding
HCP - Habitat Conservation Plan

NFPA - National Fire Protection Association
PCA - Priority Conservation Areas
PRC - Public Resources Code
SME - Subject Matter Expert
SOW - Statement of Work
SWPPP - Stormwater Pollution Prevention Plan
RA - Resource Advisor
SEMS - State Emergency Management System
UC - University of California
UCB - University of California at Berkeley
USACE - U.S. Army Corps of Engineers
USFWS - United States Fish and Wildlife Service
VHFHSZ - Very High Fire Hazard Severity Zone
WFMP - Wildland Fire Management Plan
WUI – Wildland Urban Interface

B. Glossary of Terms

Backfire – A fire set along the inner edge of a fireline to consume the fuel in the path of a wildfire or change the direction of force of the fire's convection column.

Bulk Density – Weight per unit volume. For fuels, this is usually expressed as pounds per cubic foot; for soils, grams per cubic centimeter.

Canopy – The stratum containing the crowns of the tallest vegetation present (living or dead), usually above 20 feet.

Canopy Base Height – The lowest height above the ground above which there is sufficient canopy fuel to propagate fire vertically. It is a measure of a group of trees, not an individual tree. This measurement incorporates ladder fuels, such as tall shrubs and small trees.

Convection – (a) The transfer of heat by the movement of a gas or liquid; convection, conduction, and radiation are the principal means of energy transfer; (b) As specialized in meteorology, atmospheric motions that are predominantly vertical in the absence of wind (which distinguishes this process from advection), resulting in vertical transport and mixing of atmospheric properties.

Containment – (a) The status of a wildfire suppression action signifying that a control line has been completed around the fire, and any associated spot fires, which can reasonably be expected to stop the fire's spread; (b) The act of controlling hazardous spilled or leaking materials.

Controlled – The completion of control line around a fire, any spot fires therefrom, and any interior islands to be saved; burned out any unburned area adjacent to the fire side of the control lines; and cool down all hotspots that are immediate threats to the control line, until the lines can reasonably be expected to hold under the foreseeable conditions.

Crown Fire – A fire that advances from top to top of trees or shrubs more or less independent of a surface fire. Crown fires are sometimes classed as running or dependent to distinguish the degree of independence from the surface fire.

Crown Fire Activity – See "Crowning Potential." The presence of a crown fire or torching in any one area.

Crowning Potential – A probability that a crown fire may start, calculated from inputs of foliage moisture content and height of the lowest part of the tree crowns above the surface. See also "spotting potential."

Defensible Space – The area adjacent to a structure or dwelling where wildfire prevention or protection practices are implemented to provide defense from an approaching wildfire or to minimize the spread of a structure fire to wildlands or surrounding areas.

Extreme Fire Behavior – "Extreme" implies a level of fire behavior characteristics that ordinarily precludes methods of direct control action. One or more of the following is usually involved: high rate of spread, prolific crowning and/or spotting, presence of fire whirls, strong convection column. Predictability is difficult because such fires often exercise some degree of influence on their environment and behave erratically, sometimes dangerously.

Fire Behavior – The manner in which a fire reacts to the influences of fuel, weather, and topography.

Fire Behavior Modeling – The mathematical algorithms that describe the physical properties associated with the rate and volume of heat transfer, or ignitability.

Firebrand – Any source of heat, natural or human made, capable of igniting wildland fuels. Flaming or glowing fuel particles that can be carried naturally by wind, convection currents, or by gravity into unburned fuels.

Fire Hazard Severity – Fire hazard severity zones are based on the combination of vegetation, topography, weather, crown fire potential, ember production and movement, and the likelihood of an area burning. Buildings constructed in Very High Fire Hazard Severity Zones are required to be built using fire-resistive features.

Fireline – The part of a containment or control line that is scraped or dug to mineral soil; (b) For purposes of pay administration for hazardous duty, a fireline is defined as the area within or adjacent to the perimeter of an uncontrolled wildfire of any size in which action is being taken to control fire. Such action includes operations, which directly support control of fire (e.g., activities to extinguish the fire, ground scouting, spot fire patrolling, search and rescue operations, and backfiring).

Fireline Intensity – The product of the available heat of combustion per unit of ground and the rate of spread of the fire, interpreted as the heat released per unit of time for each unit length of fire edge. The primary unit is Btu per second per foot (Btu/sec/ft) of fire front; (b) The rate of heat release per unit time per unit length of fire front. Numerically, it is the product of the heat yield, the quantity of fuel consumed in the fire front, and the rate of spread.

Fire Suppression – All work and activities connected with control and fire-extinguishing operations, beginning with discovery and continuing until the fire is completely extinguished.

Flame – A mass of gas undergoing rapid combustion, generally accompanied by evolution of sensible heat and incandescence.

Flame Length – The distance between the flame tip and the midpoint of the flame depth at the base of the flame (generally the ground surface), an indicator of fire intensity.

FlamMap – A software program that simulates potential fire behavior characteristics (spread rate, flame length, fireline intensity, etc.), fire growth and spread, and conditional burn probabilities under constant environmental conditions (weather and fuel moisture).

Flaming Front – That zone of a moving fire where the combustion is primarily flaming. Behind this flaming zone combustion is primarily glowing or involves the burning out of larger fuels (greater than about three inches in diameter). Light fuels typically have a shallow flaming front, whereas heavy fuels have a deeper front.

Foliar Moisture Content – The weight of water compared with the weight of cellulose, expressed as a percentage. A 100 percent moisture content is found when that portion of a plant has equal weights of water and cellulose.

Fuel – Any combustible material, especially petroleum-based products and wildland fuels.
Fuelbed – An array of fuels usually constructed with specific loading, depth, and particle size to meet experimental requirements; also, commonly used to describe the fuel composition.

Fuelbreak - Fuelbreaks are man-made areas with a reduced fuel load that act as barriers to stop or slow down fire spread. They are also designed to provide firefighters access and to act as a retreat for personnel and equipment to escape injury.

Fuel Model – Simulated fuel complex for which all fuel descriptors required for the solution of a mathematical rate of spread model have been specified. Vegetation is grouped into a set of distinctive species, form, size, arrangement, or other characteristics that will cause a predictable rate of spread or resistance to control under specified weather conditions.

Fuel Modification – Manipulation or removal of fuels to reduce the likelihood of ignition and/or to lessen potential damage and resistance to control (e.g., lopping, chipping, crushing, piling, and burning).

Fuel Reduction – Manipulation, including combustion, or removal of fuels to reduce the likelihood of ignition and/or to lessen potential damage and resistance to control.

Fuel Type – An identifiable association of fuel elements of distinctive species, form, size, arrangement, or other characteristics that will cause a predictable rate of spread or resistance to control under specified weather conditions.

Grass Fuel Model – See "Fuel Model." Grassy vegetation that has similar suite of species, form, size, arrangement, or other characteristics that will cause a predictable rate of spread or resistance to control under specified weather conditions. Grass fuel models are associated with fast fire rate of spread, high intensity, but low heat output when the grass has dried.

Hazard - Hazard means an event or physical condition (fire) that has the potential to cause

fatalities, injuries, property damage, infrastructure damage, agricultural loss, damage to the environment, interruption of business, or other types of harm or loss.

Heat of Preignition – The amount of heat required to ignite one pound of fuel.

Heat sink – A substance that absorbs or dissipates heat. In a wildfire, a heat sink is typically unburned fuel. More moist and the bigger material are greater heat sinks.

Ignition – The action of setting something on fire or starting to burn.

Incident Command System (ICS) – A standardized on-scene emergency management concept specifically designed to allow its user(s) to adopt an integrated organizational structure equal to the complexity and demands of single or multiple incidents, without being hindered by jurisdictional boundaries.

Initial Attack (IA) – A planned response to a wildfire given the wildfire's potential fire behavior. The objective of initial attack is to stop the fire and put it out in a manner consistent with firefighter and public safety and values to be protected.

Long-range spotting – Large glowing firebrands are carried high into the convection column and then fall out downwind beyond the main fire starting new fires. Such spotting can easily occur ¼ mile or more from the firebrand's source.

Radiation – (a) Propagation of energy in free space by virtue of joint, undulatory variations in the electric or magnetic fields in space, (i.e., by electromagnetic waves); (b) Transfer of heat in straight lines through a gas or vacuum other than by heating of the intervening space.

Rate of Spread – The relative activity of a fire in extending its horizontal dimensions. It is expressed as rate of increase of the total perimeter of the fire, as rate of forward spread of the fire front, or as rate of increase in area, depending on the intended use of the information. Usually it is expressed in chains or acres per hour for a specific period in the fire's history.

Red Flag Warning - A Red Flag Warning means warm temperatures, very low humidities, and stronger winds are expected to combine to produce an increased risk of fire danger.

Response time – The time between notification of a wildfire and the arrival of firefighters at the scene.

Retardant – A substance or chemical agent which reduces the flammability of combustibles.

Risk - Risk, or fire risk case, is defined as the likelihood that a threat (fire) will harm an asset with some severity of consequences.

Shaded Fuel Break – Fuel breaks built in timbered areas where the trees on the break are thinned and pruned to reduce the fire potential yet retain enough crown canopy to make a less favorable microclimate for surface fires.

Shrub Fuel Model – See "Fuel Model." Shrubby vegetation that has similar suite of species, form, size, arrangement, or other characteristics that will cause a predictable rate of spread or resistance to control under specified weather conditions. Shrub fuel models typically are

associated with fast fire rate of spread, high intensity, especially when the shrub vegetation is old.

Spot Fire – Fire ignited outside the perimeter of the main fire by a firebrand.

Spotting – Behavior of a fire producing sparks or embers that are carried by the wind and which start new fires beyond the zone of direct ignition by the main fire.

Surface Fire - Fire that burns loose debris on the ground's surface, which includes dead branches, leaves, and short vegetation.

Torching – The burning of the foliage of a single tree or a small group of trees, from the bottom up.

Unified Command – In ICS, unified command is a unified team effort which allows all agencies with jurisdictional responsibility for the incident, either geographical or functional, to manage an incident by establishing a common set of incident objectives and strategies. This is accomplished without losing or abdicating authority, responsibility, or accountability.

Vegetation Treatment – Activities that modify the vegetation, often to reduce the fire hazard. Manual labor, machinery, prescribed fire and herbicide use are all used as vegetation treatments. Vegetation treatment may achieve several types of goals, such as the installation of defensible space, shade fuelbreaks, or firebreaks

Waterbar – A shallow channel or raised barrier, e.g., a ridge of packed earth or a thin pole laid diagonally across the surface of a road or trail so as to lead off water, particularly storm water. (Frequently installed in firelines on steep slopes to prevent erosion.)

Wildland – Areas which are not developed or farmed

VII. APPENDIX

A. Geographical Naming Convention

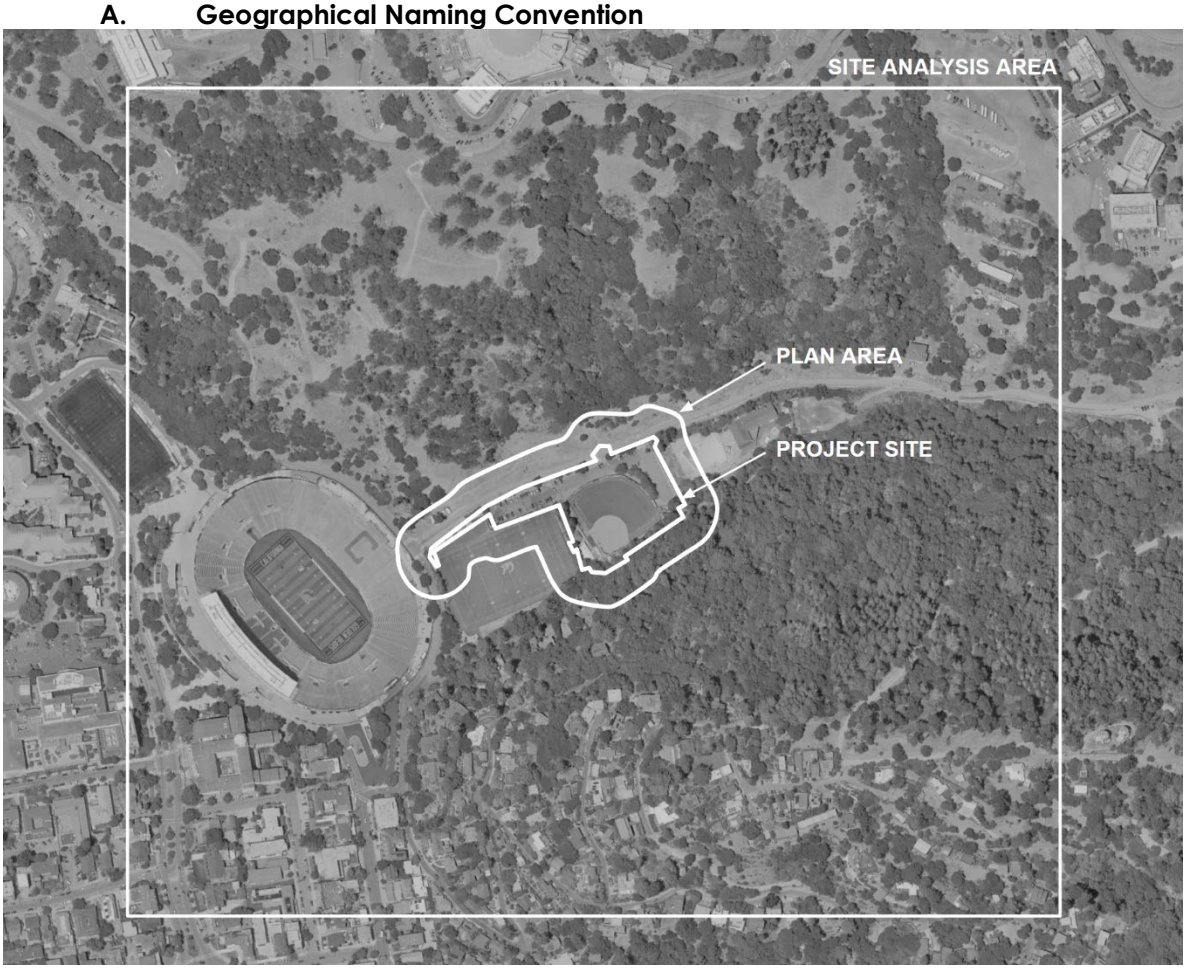


Figure 26: Geographical Naming Convention

B. Recommended Matrix Actions

PROPOSED CONDITIONS

Action	Project Element	Recommendation	WVFMP Measure
Water & Electrical Infrastructure			
Electrical distribution infrastructure must be installed and maintained per all applicable codes.	X		
The project will be permitted through the campus Fire Marshall for compliance with Fire Hydrant coverage of the proposed build	X		
Drainage Infrastructure			
Should the synthetic turf or structures become impacted by fire, appropriate measures will be taken to ensure resulting debris do not enter the storm drainage system or the drainage ditch south of the proposed facility.		X	
Fire apparatus access to within 150' of all portions of the exterior walls of the 1st story must be provided	X		
Access for Emergency Responders and Evacuation			
A Knox box would be located on the exterior of the building that stores the necessary keys for personnel to respond to an emergency.	X		
The entrance to the Softball field is equipped with a gate/double doorway equipped with a Knox box.	X		

IGNITION PREVENTION

Action	Project Element	Recommendation	WVFMP Measure
Ignition Prevention Required			
Install signs that indicate-the project site is in a very High Fire Hazard Severity Zone.	X		
Install a dynamic fire danger sign at the project site or at another appropriate location within the developed portion of the Strawberry Canyon Recreation Area.	X		
Implement Construction Ignition Prevention Plan	X		
Ignition Prevention			
Vegetation treatments within 100-ft of the project site will continue under the WVFMP as another way to prevent ignitions			X
Develop a plan for contingencies for athletic events in the Hill Campus on red flag days when-other events are held concurrently. The plan may include but would not be limited to: canceling or rescheduling events, funding and implementing UC Hill Patrols, use of shuttle, and coordinating responses and availability of equipment with Berkeley Fire Department		X	
Fire hazard reduction			
Continue maintenance of the area within 100-ft of the project site in accordance with the WVFMP.			X
Fire hazard reduction			
Athletics staff will be trained annually regarding wildfire detection, reporting, extinguishing and evacuation. (This is specifically for staff who are at the Softball Field for competitive or other events.)	X		
At least one Athletics Department's Softball staff member will participate in a local Community Emergency Response Team	X		
Fire extinguishers will be available on site. Fire extinguishers will be a minimum of a Class-A type.	X		
A water hose will be connected during events, and staff will be familiar with the location of the valve.	X		
During a wildfire, the public address system and visual scoreboard will be used to assist evacuation guidance, based on coordination with the emergency management staff.	X		
Provide communication, through radios or other means to support campus's emergency response	X		
Radios will be present and operated every time the ballfield is used. A contact sheet should be also present, and updated yearly.	X		
Develop a Hill Campus pre-incident map for the lower Strawberry Canyon facilities and share it with the Berkeley Fire Department and Facilities Services		X	
Invite the Berkeley Fire Department to tour the Strawberry Atheltics Facilities on an annual basis, if not more frequently	X		
Coordinate with other Hill Campus occupants, share notification systems, and practice their evacuation plan together, annually.	X		
Attend the quarterly Hill Fire Mitigation Committee meetings	X		
Monitoring			
Inspect the defensible space around the project site consistent with the Hill Campus WVMP, and certify to its completion			X
Assumes plan checking when it is to be permitted.			

Table 8: Recommended Matrix Actions

C. The Design Plans

1. Applicable Codes

All proposed utilities are designed per the following applicable codes:

- Title 19 - Public Safety, State Fire Marshal Regulations;
- Title 24 - Part 3 2019 California Electrical Code, based on the 2017 National Electrical Code (NEC);
- Title 24 - Part 9 2019 California Fire Code (CFC), based on the 2018 International Fire Code;
- Title 24 - Part 12 2019 California Referenced Standards Code;
- NFPA Standards, as Referenced by the California Building Code. This includes, but is not limited to, NFPA 13, 14, 17, 17A, 20, 22, 24, 30, 55, 72, 80, 99, 101, and 2001; and
- 19UL 521 - Heat Detectors for Fire Protective Signaling Systems.

2. Construction Fire Prevention Plan

a) Fire Risks and Fire Prevention Measures

During the construction phase of the project, UCB and its contractors will implement the fire prevention measures listed in Table 9: Fire Prevention Matrix. Once construction is complete, the Fire Prevention Matrix shall be applied to building and vegetation maintenance activities (for example, weed or grass mowing), as determined by the Fire Coordinator and/or in coordination with the appropriate fire agency with jurisdictional responsibility.

The following precautions will take place at the construction site:

- The site will be assessed by the contract administrator (CA) for wildland fire risk prior to beginning operations at the site.
- Hazard reduction inside and around the perimeter of the site will be performed in accordance with the ignitions and fuels reduction
- Other fire prevention measures may include regular watering to reduce fire potential danger.
- Smoking, welding, and fueling of equipment will be done only in designated areas with appropriate fire protection measures as described in the Attachment 1: Fire Prevention Matrix.
- Parking will be permitted in areas absent of vegetation.
- Each site will have a minimum of one fire box/cache with tools with 3 shovels and 2 Pulaski's. Additional tools and equipment may be required as determined by the CA in addition to what is carried on vehicles.
- Additional tools, equipment, and requirements identified during inspections will be documented and communicated to crew leaders.

b) Red Flag Warnings (RFW) and Other Critical Fire Declarations (CFD)

When there is a notice of a Red Flag Warning, the FPI will normally default to "FPI - Extreme". This applies for the specific weather zone involved and lasts for the entire duration of the RFW/CFD. Fire Coordinators will be responsible for monitoring whether a red flag warning is in effect.

At times, fire danger declarations can be made by any jurisdictional fire department for a given period of time. As soon as these declarations are known by the Fire Coordinator, they will be communicated to project personnel. Restrictions and fire prevention measures will apply until the declarations are lifted. It is the responsibility of the Fire Coordinator to know and communicate the details of the fire danger declaration.

During periods of FPI - Extreme, work restrictions may be in place (see Attachment 1: Fire Prevention Matrix). Unfinished work, repairs, or other activities may be allowed during this period if the facility/equipment poses a greater fire risk if left in its current state.

Construction in the work area shall cease in the event of a fire within 1,000 feet of a work area or as otherwise requested by local fire authorities.

c) Tailboards, Inspections, Review, and Compliance

Construction supervisors will be responsible for reviewing the contents of the Fire Plan with construction personnel throughout the duration of the project. Daily safety tailboard sessions should include an assessment of the day's FPI level and discussion of the fire risk for the day.

The Fire Coordinator shall perform periodic inspections of equipment and worksites to verify compliance with this Fire Plan. Compliance with the Fire Plan is mandatory. Monitoring compliance with this Fire Plan is everyone's responsibility. project management should identify who has authority to shut down any operation that presents an inappropriate amount of fire risk or hazard until it can be properly addressed.

Violations of the requirements of this Fire Plan will be addressed immediately. Appropriate consequences for repeated or negligent actions in respect to this Fire Plan will be forwarded to the appropriate management for action.

All project-related vegetation fires, regardless of size, shall be promptly reported to the fire agency having jurisdiction. The Project Manager and fire coordinator shall also be immediately notified.

d) Communications Plan

The ability to communicate with all project personnel working within the project right of way and to contact emergency first responders is critical for fire and personnel safety. Cell phones, satellite phones, and/or radios are all acceptable. All cell phones that are to be used for emergency communication will have coverage in the area of operations. All personnel must know emergency communication procedures while on the project. 911 is the primary first responder contact number for all incidents. All fires will be reported to the fire agencies with jurisdiction in the plan area immediately upon discovery. Daily communication checks will be performed by CA, foreman or site supervisor prior to initiating construction activities. All project personnel will have access to a communication device, such as a cell phone, satellite phone or radio.

TABLE 9: FIRE PREVENTION MATRIX					
VEHICLE[4], EQUIPMENT OR ACTIVITY	**DESCRIPTION**	**NOT INCLUDED/ EXCEPTIONS**	**Operating Level Conditions (FPI)**		
			NORMAL	**ELEVATED**	**EXTREME or RFW[5]**
A designated fire patrol must be assigned at all levels and jobs unless otherwise noted.					
VEHICLES					
Personal vehicles (POV)	A privately owned/ operated vehicle used as transportation for a project employee	N/A	No tools required when traveling on public roads and parked at a meet-up location off the ROW, in the ROW or legal public parking area (If the vehicle is used on or brought out to the right-of-way (considered a traffic control area for underground work within paved roads), it is considered a project vehicle).	No Change	No Change
project vehicles	A vehicle used on, including for transport, or brought out to the right-of-way (includes fueling trucks)	Diesel powered vehicles	1 round point shovel, 1 pulaski, 1 (5) gallon backpack pump dedicated for that vehicle. Never park on top of vegetation. When the vehicle is parked and turned off, the tools may be removed from the vehicle and moved closer to a work area to meet the fire tool requirements for a work ***activity*** (not a piece of equipment) listed below being performed by the person(s) using the vehicle, but must be returned to the vehicle before starting the vehicle.	No Change	No Change
Diesel powered vehicles	Diesel-fueled commercial motor vehicles with gross vehicle weight ratings greater than 10,000 pounds (includes fueling trucks)	Vehicles using other fuels	Never park on top of vegetation. No idling for more than five minutes except as permitted under 13 CCR §2485.	No Change	No Change

[4] Vehicle is defined as licensed and registered to drive on public roads.
[5] Variances may be approved if unfinished work poses a greater risk if left in its current state.

TABLE 9: FIRE PREVENTION MATRIX					
VEHICLE[4], EQUIPMENT OR ACTIVITY	**DESCRIPTION**	**NOT INCLUDED/ EXCEPTIONS**	**Operating Level Conditions (FPI)**		
			NORMAL	**ELEVATED**	**EXTREME or RFW[5]**
EQUIPMENT					
Nonmotive equipment and machinery with an internal combustion engine - **off paved roads**	Generators, compressors, light plants or other equipment without motive power, which are usually portable, but used in a stationary position	Equipment involved in hotwork, chain saws, and equipment involved in vegetation management – see requirements under activities	Maintain a minimum of five foot clear space on all sides and no combustible materials underneath (e.g. vegetation, trash, wood debris, etc.).	No Change	No work unless authorized by the PM with evidence of written consultation from Fire Marshal
Motive equipment and machinery with an internal combustion engine - **off paved roads**	Engines, equipment and machinery that impart motion (e.g. grader, bulldozer, crane, forklift, jackhammer)	Vehicles	1 round point shovel, 1 pulaski, 1 (5) gallon backpack pump within 50 feet and dedicated to that piece of equipment.	No Change	No work unless authorized by the PM with evidence of written consultation from Fire Marshal
Vehicle mounted equipment and machinery with an internal combustion engine	Equipment and machinery is NOT removed from the vehicle. Specific activity requirements still apply.	N/A	No additional fire tools required other than tools required for the vehicle.	No Change	No Change; see activity restrictions as applicable
ACTIVITIES					

TABLE 9: FIRE PREVENTION MATRIX					
VEHICLE[4], EQUIPMENT OR ACTIVITY	DESCRIPTION	NOT INCLUDED/ EXCEPTIONS	Operating Level Conditions (FPI)		
			NORMAL	ELEVATED	EXTREME or RFW[5]
Monitoring and Surveying (Vegetation, Wildlife, Cultural, etc.) and Traffic Control	No tools or mechanized equipment (See POV and project vehicle requirements)	N/A	No requirements for the surveying, monitoring and traffic control activities	No Change	No Change
Smoking	Cigarettes and Cigars (Electronic Cigarettes can be used anywhere)	N/A	When permitted, smoking will be in designated areas only, with 10 feet clearance of combustible materials (e.g. vegetation, trash, wood debris, etc.), with ash can and no butts left on the ground.	No Change	Never
Chain saw use – off paved roads	Chain saw use and fueling of the chain saw – off paved roads	N/A	1 round point shovel, 1 pulaski, 1 (5) gallon backpack pump within 50 feet, the shovel must be within 25 feet of an A:B:C rated fire extinguisher in the operators immediate possession.	No Change	No Work
Chipping vegetation off paved roads	Chippers	N/A	1 round point shovel, 1 pulaski, 1 (5) gallon backpack pump within 50 feet	No Change	No Work
Vegetation Management using hand tools	No mechanical equipment	N/A	1 round point shovel, 1 pulaski, 1 (5) gallon backpack pump within 50 feet of edge of work area.	No Change	No Work

TABLE 9: FIRE PREVENTION MATRIX					
VEHICLE[4], EQUIPMENT OR ACTIVITY	DESCRIPTION	NOT INCLUDED/ EXCEPTIONS	Operating Level Conditions (FPI)		
			NORMAL	ELEVATED	EXTREME or RFW[5]
Hotwork (open flame or spark producing activities), generally involving welding, cutting and/or grinding of metal.	Welder, grinder, saw; gas, air or electric powered.	N/A	All welding, cutting and other hot work will follow a hot work program that will at minimum meet the standards set in National Fire Protection Association 51B, CFC Chapter 35 and have 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50 feet of the hotwork activity; 10 feet of clear space between, surrounding fuels (e.g. vegetation, trash, wood debris, etc.) will be wet down prior to performing hot work and kept sufficiently wet to prevent ignitions. A designated "Fire Patrol" must be present during work and 1 hour after hot work is complete.	No Change	No Work
Rock drilling and splitting	Rock drills, breakers, and blasting systems	N/A	1 round point shovel, 1 pulaski, 1 (5) gallon backpack pump within 50 feet of each worksite or as permitted. Blasting operations permits and protocols must be followed.	Implement Normal requirements and 150 gallons (minimum) of water with pump, hose sufficient to reach the work area, and nozzle. Water tender, water buffalo or other water tank at each worksite. Dedicated fire patrol.	No Work
Equipment and vehicle fueling – off paved roads	Fueling of equipment or vehicles	N/A	B:C rated fire extinguisher, in addition to the standard vehicle requirements.	No Change	No Change
Spark Arresters: All internal combustion engines shall have approved spark arresters; Engines used to provide motive power for trucks, tractors, buses, and passenger vehicles, except motorcycles, are exempt if the exhaust system is equipped with a muffler; Turbocharged engines are exempt.					

TABLE 9: FIRE PREVENTION MATRIX					
VEHICLE[4], EQUIPMENT OR ACTIVITY	DESCRIPTION	NOT INCLUDED/ EXCEPTIONS	Operating Level Conditions (FPI)		
			NORMAL	ELEVATED	EXTREME or RFW[5]
Delivery Vehicles: Defined as vehicles that will drop off equipment or material and leave (e.g. water tankers, postal trucks); these vehicles do not need to be equipped with fire tools, but drivers need to follow all SEAP mandated procedures while accessing the site. See requirements for fuel trucks.					

Table 9: Fire Prevention Matrix

e) Construction Fire Prevention Plan Definitions

. Fire Coordinator (FC): An UCB employee who serves as liaison or agency representative to the fire agencies and other emergency services during an emergency and with other fire related activities in non-emergency situations.

. Fire Patrol: Fire patrol(s) are personnel who are assigned the responsibility and accountability for fire prevention, risk management, early detection of fires, reporting and rapid extinguishment.

.A "designated" Fire Patrol is a member of a work crew assigned responsibility and accountability for fire prevention, risk mitigation, early detection of fires, reporting and rapid extinguishment should one occur. This can be accomplished co-laterally with other work duties but must be ready to respond with appropriate fire equipment.

.A "dedicated" Fire Patrol is a person(s) assigned duties associated with fire prevention and fire safety for a specific job or location, with appropriate training and equipment equivalent to the risk presented. This would be their sole duty while serving as a dedicated Fire Patrol, and are typically assigned to a fire engine or water tender, but not necessarily.

. Fire Tools: References to "fire tools" pertains to firefighting tools which include; shovel, Pulaski, fire extinguisher, and five (5) gallon backpack pump. These tools are commonly required on project vehicles and work sites.

. Fire Threat Zone (FTZ): An area which identifies the wildland fire threat on a scale of low to extreme. This is a rating based on a combination of potential fire behavior (wildland fuel) and expected fire frequency.

. At Risk Activity: Project activities that present a risk of igniting a wildfire.

. Fire Potential Index (FPI): This is a comprehensive assessment of fire risk, used as a tool for making operation and maintenance decisions related to fire prevention. The tool converts environmental, statistical, and scientific data into an easily understood forecast of short-term fire threat. The index is generated for a seven day forecast period for an assortment of geographic areas within the service territory. The 7-day forecast is used for planning purposes while the daily FPI is also used for work activities. The FPI is used to determine the operating condition for each day (Normal, Elevated, or Extreme), definitions of each to follow.

. Normal Operating Condition: It is considered "Normal" operating condition when the FPI is in any shade of green (very low, low, or moderate). All activities can take place without additional fire risk management, as long as baseline fire equipment is available as prescribed in this plan. Note; the baseline fire equipment requirements meet or exceed all local, state, and federal requirements for working in the wildland areas.

. Elevated Operating Condition: Operating level is considered elevated when the FPI is either yellow or orange (high or very high). Certain "at risk" activities will require additional risk management (see Attachment 1: Fire Prevention Matrix) to perform those work activities.

. Extreme Operating Condition: Operating level is considered extreme when the FPI is red (extreme). No "at risk" activities should be conducted except for those activities which if left undone present a greater risk than those involved with their accomplishment. Consultation with the On-duty Fire Coordinator is required to help make that determination and identify additional fire prevention measures required to reduce risk.

. Red Flag Warning (RFW): A Red Flag Warning is issued for a stated period of time by the National Weather Service (NWS) using predetermined criteria to identify particularly critical danger in a particular geographic area. All construction and maintenance activities shall cease during RFWs, as discussed in the Fire Plan. Certain variances may be available for activities that do not present a risk of starting a fire. Consultation with the On-duty Fire Coordinator is required to help make that determination and identify fire prevention measures required.

. Construction Fire Prevention Plan: Also known as the Fire Plan. The Fire Plan is developed

and implemented by UCB and its construction contractor to provide fire prevention guidance for a specific construction project.

. Project: "Project" may be used interchangeably in place of the formal name of the project in the construction fire prevention plan.

D. Existing Conditions

1. Climate and Weather

Remote automated weather stations (RAWS) are used for fire danger ratings, and differ from local weather stations observed by citizens, or by government agencies observed for irrigation and water resource management. The RAWS are purposefully placed in open areas, most representative of the wildlands in question. The data from the nearest RAWS weather station was obtained; it reported ninetieth percentile values for relative humidity as 37 percent, temperature as 77 degrees F, and wind speed as 11 mph. Seventy percent of the observations recorded winds from the west and southwest; only 13.4 percent of the observations recorded winds from the north, northeast, or east. The vast majority of hot days coincided with winds from the southwest. Although average summertime temperatures are usually quite warm (75 to 85 degrees F), it is common for the fog to roll in during the early evenings. Thus, proximity to the bay often creates a pattern of hot days and cool nights. Fog also sometimes keeps summertime temperatures cool in the project site. As noted above, northeasterly winds (typical fire weather conditions) are especially conducive for transport of embers.

E. Regulatory Framework

1. Regulatory Requirements

The regulations include the following:

- CAL FIRE Fire Hazard Severity Zone designation
- California Building Code
- California Fire Code
- California Public Resources Codes 4290, 4291, 4442 (addressing access, water supply, signage, defensible space, and use of internal combustion engines in wildlands)
- Fire Safe Regulations in State Responsibility Areas (a restatement of PRC 4290)
- City of Berkeley Municipal Code, establishing the project site in Berkeley Fire Zone 2
- California Public Utilities Commission, which resulted in a fire threat map and work plan for the development of a utility high fire-threat district where enhanced fire safety regulations need to apply. Utilities are to
    - Maintain increased clearances between vegetation and power lines in the high fire-threat district.
    - Maintain stricter wire-to-wire clearances for new and reconstructed facilities in Tier 3 areas.
    - Conduct annual inspections of overhead distribution facilities in rural areas of Tier 2 and Tier 3 areas.
    - Prepare a fire prevention plan annually if overhead facilities exist in the high fire-threat district.

The Fire Safe Regulations have recently been revised, adopted in January, 2023. These are now called State Minimum Fire Safe Regulations, and address access road, driveway and dead-end road standards for new development and in places where structures are to be re-built after wildfire. In addition, strategic ridgelines may be preempted from development. Interpretation of these regulations are referred to the local counties.

In addition, new legislation has been passed that affects the site planning.

AB 3074 (Friedman, 2020) updated the requirements of defensible space in 4291 with the introduction of ember resistant zones zero to five feet from structures (California Board of Forestry and Fire Protection, 2020).

Section 4906 Vegetation Management is a new amendment that requires identification and maintenance of the vegetation management zones adjacent to new structures, as well as design criteria for specific types of fire-resistant and non-fire-resistant vegetation.

Section 4908 Fire Safe Development Regulations & Section 4909 Subdivision Review Survey are new sections which require that local governments survey every five years existing subdivisions in the SRA or VHFHSZ without a secondary egress route. Subsections authorize the Board of Forestry and local government bodies (as identified by the State Fire Marshal) to make recommendations that may involve creating secondary access or access road improvements, or alternatives.

A key regulation that affects site planning is the California Environmental Quality Act (CEQA). When considering the environmental impacts of a project, completion of an Initial Checklist is required. Section 20 of Appendix G, of the Environmental Checklist Form (included in its entirety in the Appendices of this plan) pertains to wildfire. In order to evaluate potential environmental impacts, the checklist asks the following questions: If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Because answers to these questions determine whether impacts of a project are significant, this checklist directly influences and generally supports efforts to improve wildland fire safety.

a) Section 4903 Plans

4903.1 General

The fire code official is authorized to require the owner or owner's authorized agent to provide a fire protection plan. The fire protection plan shall be prepared to determine the acceptability of fire protection and life safety measures designed to mitigate wildfire hazards presented for the property under consideration.

The fire protection plan shall be prepared by a registered design professional, qualified landscape architect, qualified fire safety specialist or similar specialist acceptable to the fire code official and shall analyze the wildfire risk of the building, project, premises or region to recommend necessary changes.

The fire code official is authorized to require a preliminary fire protection plan prior to the submission of a final fire protection plan.

4903.2 Contents

The fire protection plan shall be based on a project-specific wildfire hazard assessment that includes considerations of location, topography, aspect, and climatic and fire history.

The plan shall identify conformance with all applicable state wildfire protection regulations, statutes and applicable local ordinances, whichever are more restrictive.

The plan shall address fire department access, egress, road and address signage, water supply in addition to fuel reduction in accordance with Public Resources Code (PRC) 4290; the defensible space requirements in accordance with PRC 4291 or Government Code 51182; and the applicable building codes and standards for wildfire safety. The plan shall identify mitigation measures to address the project's specific wildfire risk and shall include the information required in Section 4903.2.1.

4903.2.1 Project Information

The final fire protection plan shall be reviewed and approved prior to start of construction.

4903.2.1.1 Preliminary Fire Protection Plan

When a preliminary fire protection plan is submitted, it shall include, at a minimum, the following:

Total size of the project.

Information on the adjoining properties on all sides, including current land uses, and if known, existing structures and densities, planned construction, natural vegetation, environmental restoration plans, roads and parks.

A map with all project boundary lines, property lines, slope contour lines, proposed structure foundation footprints, and proposed roads and driveways. The map shall identify project fuel modification zones and method of identifying the fuel modification zone boundaries.

4903.2.1.2 Final Fire Protection Plan

The final fire protection plan shall include items listed in Section 4903.2.1.1 and the following:

A map identifying all proposed plants in the fuel modification zones with a legend that includes a symbol for each proposed plant species. The plan shall include specific information on each species proposed, including but not limited to:

The plant life-form;

The scientific and common name; and

The expected height and width for mature growth.

Identification of irrigated and non-irrigated zones.

Requirements for vegetation reduction around emergency access and evacuation routes.

Identification of points of access for equipment and personnel to maintain vegetation in common areas.

Legally binding statements regarding community responsibility for maintenance of fuel modification zones.

Legally binding statements to be included in covenants, conditions and restrictions regarding property owner responsibilities for vegetation maintenance.

From: https://up.codes/viewer/california/ca-fire-code-2022/chapter/49/requirements-for-wildland-urban-interface-fire-areas#4906.2

2. PG&E Vegetation Management Governing Laws and Regulations

PG&E abides by four laws and regulations. A brief description of each regulation is provided below:

- California Public Utilities Commission (CPUC) General Order 95,
  - "Requires a year-round clearance below power lines of a minimum 18 inches. New fire safety regulations require a minimum clearance of four feet year-round for high-voltage power lines in the CPUC-designated High Fire-Threat Districts."
- Public Resources Code (PRC) 4292,
  - "Requires that we maintain a firebreak of at least 10 feet in radius of a utility pole. Tree limbs within the 10 feet radius of the pole must be removed up to eight feet above ground. From eight feet to conductor height requires removal of dead, diseased or dying limbs and foliage. This applies in the State Responsibility Area during designated fire season.

    "The fuel breaks are created around specific powerline poles that have pieces of equipment identified as non-exempt by CAL FIRE. Fuel breaks help protect our electric powerline poles from potential fire hazards."
- PRC 4293, and
  - "Requires a 4 feet minimum clearance be maintained for power lines between 2,400 and 72,000 volts, and a 10 feet clearance for conductors 110,000 volts and above. PRC 4293 also requires the removal of dead, diseased, defective and dying trees that could fall into the lines. This applies in the State Responsibility Area during designated fire season."
- CPUC Resolution ESRB-4.
  - "Directs utilities to take practicable measures necessary to reduce the likelihood of fires. Those measures include increasing vegetation inspections; removing hazardous, dead and sick trees and other vegetation near electric power lines and poles; sharing resources with CAL FIRE to staff lookouts adjacent to the utilities' property; and clearing access roads under power lines for fire truck access."

Source: https://www.pge.com/en_US/safety/yard-safety/powerlines-and-trees/laws-and-regulations.page#:~:text=General%20Order%2095%2C%20issued%20by,of%20a%20minimum%2018%20inches.

F. Local Plans & Policies

1. Reference to Planning and Documents

a) UC Berkeley Plans and Policies

There are several **UC Berkeley plans**. One of the goals of the UCB 2022 Campus Master Plan is to "Maintain the Hill Campus East as a resource for research, education, recreation, and energy resilience and focus on potential development on suitable sites, while managing and reducing wildfire risk." This plan goes on to establish a resilience framework focusing on preventing and mitigating environmental hazards including wildfire. The Campus Master Plan "suggests a multi-pronged approach to wildfire prevention and mitigation, incorporating consideration of vegetation, building materials, smoke days and power outages." Vegetation management is to follow the WVFMP.

Wildland Vegetative Fuel Management Plan and its EIR expands and standardizes vegetation management, encompassing the maintenance of defensible space, supporting evacuation along roadways, establishing strategic fuel breaks, and reducing future hazard to promote landscape resiliency and native habitat.

The **UCB LRDP EIR** describes the potential wildfire impacts associated with the approval and implementation of the proposed LRDP Update and the construction and operation of the proposed Housing Projects #1 and #2. Chapter 5.18 Wildfire "describes the regulatory framework and existing conditions, identifies criteria used to determine impact significance, provides an analysis of the potential wildfire impacts, and identifies UC Berkeley's continuing best practices (CBPs) and feasible mitigation measures that could mitigate any potentially significant impacts."

The **LRDP EIR** describes several Plans specific to the UC system. The UC Berkeley Emergency Operations Plan (EOP) includes in-depth information for how each UC Campus responds to any emergency situation, including fire hazards. The UC Office of Emergency Management works with Campus units and leadership to respond to and recover from emergency situations. The Campus Design Standards to guide design and construction professionals to complete lasting, high-quality additions to the UC Berkeley built environment. The Campus Design Standards integrate industry best practices and experience with existing UC Berkeley buildings, infrastructure, grounds, and maintenance issues and will be applied to new construction and renovation projects at UC Berkeley. The LRDP DEIR notes two sections are pertinent to prevention of loss from wildfire. Section 21 directs the design, installation, and maintenance of fire suppression systems so that systems are built to code and UC Berkeley standards, and Section 28 directs the design, installation, and maintenance of fire alarm systems for all UC Berkeley buildings. UC Berkeley Continuing Best Practices: UC Berkeley applies CBPs relevant to wildfire as part of the project approval process; the LRDP DEIR, Appendix B, contains a comprehensive list of those updates.

The Lawrence Berkeley National Laboratory also has a Long Range Development Plan, a Wildland Fire Management Plan and a Vegetation Management Guide. Both plans acknowledge the potential for wildfire in the area and offer policies and programs. The Wildland Fire Management Plan documents specific level of capabilities and training, and requires a specific set of actions to mitigate the risk of damage from wildfire. The Vegetation Management Guide notes wildfire risk reduction as a primary goal for vegetation management, and offers a suite of techniques and specific guidelines for such topics as vegetation around buildings, eucalyptus management grazing, screening and protection of oak saplings. The plans, and guides are compatible with those in this plan.

i. Evacuation Planning Factors

On August 17, 2017, the Grizzly Fire burned 20 acres at the top of Strawberry Canyon during a hot, but generally windless day. Despite the moderate weather, the fire burned 20 acres and required involvement of 14 agencies in its suppression. The potential risk to public safety was illustrated by the required evacuation of four international laboratories (Mathematical Sciences Research Institute (MSRI), Space Sciences Laboratory (SSL), Lawrence Hall of Science (LHS), and Lawrence Berkeley National Laboratory (LBNL)), the public UC Botanical Garden, as well as children's summer camps associated with the LHS and Athletics Department. This fire caused the evacuation of more than 1,000 youth campers, researchers, and other staff. The event prevented access by emergency responders along Centennial Drive and disrupted research, camps, and other UC Berkeley functions and brought to the foreground the need for increased fire safety in UC Berkeley's Hill Campus and adjustment to protocols regarding evacuation.

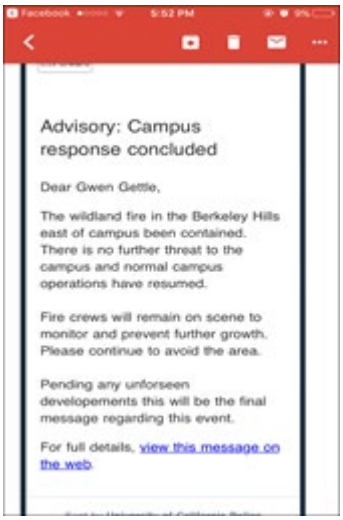


Figure 27: Example of notifications students received during the Grizzly Fire. Source: Carol Rice

The LBNL's strategy is to emphasize situational awareness and avoidance strategies. The LBNL has a sophisticated dashboard of risks; on days of extreme fire danger, employees are encouraged to avoid the site. If a wildfire were to occur, visitors and employees are directed to follow first responders instructions, and possible travel to a pre-rated building of high ignition resistance and capacity. Every employee badge has a map of those buildings. Evacuation is to take place by buildings, or zones or site, traveling to a safer designated location.



Figure 28: Example of "safe-to-stay" building designation in LBNL

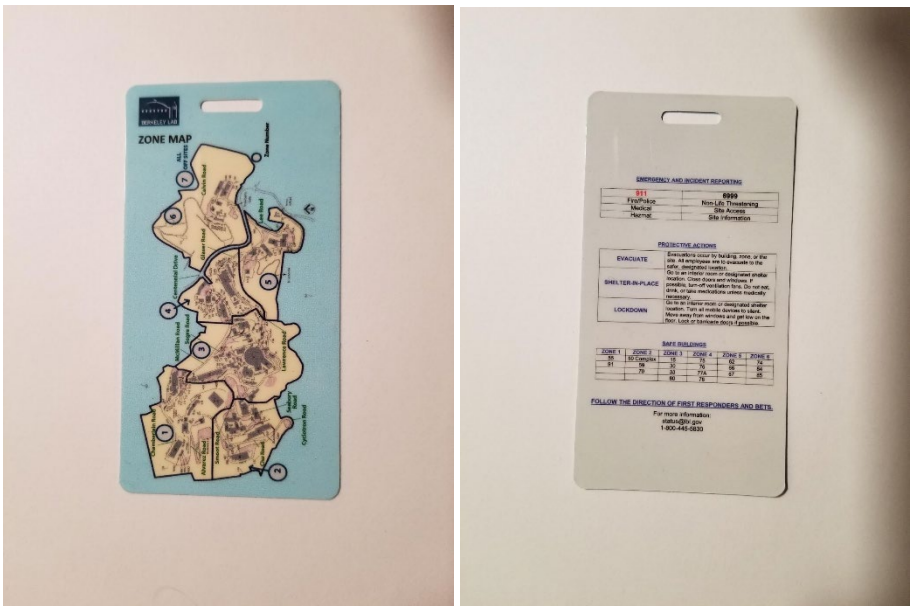


Figure 29: The Zone Map used to facilitate evacuation in LBNL, and the list of buildings designated as Safe Area for Emergencies, with those buildings identified in each zone.

Each of the Hill Campus entities had their own evacuation response to the Grizzly Fire, and each are developing evacuation plans for future fires. The UC Botanical Garden did a public announcement, , and sent them visitors home early in the wildfire timeline. Staff assembled at the Educational Activities Administration office, took roll and advised staff to go to their homes. Contact radios are being sought for preparation of future evacuations. The Garden is currently looking into the possibility of setting up a perimeter fence irrigation system in order to protect the Garden, as well as provide fire's advance down the canyon.

The Lawrence Hall of Science assembled campers and staff on its wide concrete plaza, and is also working to get radios to use in the event of an emergency. Higher up the Hill Campus west, there are about four different exit points, depending on the direction of a threatening fire. The Silver Space Laboratories evacuated everyone as soon as possible. All staff and students were directed to evacuate east of Grizzly Peak Blvd to avoid and not contribute to traffic jam down Centennial Dr. because most of the evacuees were using that route where most of the hill was using to evacuate. The Math Science Research Institute has additional abilities to notify the 55-75 occupants. Voice communication is available as an option because of an interior atrium, there is an analogue bell that can be wrung, and a fire alarm triggers evacuation to the Emergency Management Agency. Evacuation routes are determined by online information and from Campus, nixle, the Hill Area Emergency Coordinator.

b) Local Plans and Policies

The Alameda County CWPP provides recommendations for reducing wildfire risk, including increasing awareness of hazard conditions; restricting certain equipment or work during high fire danger weather; maintaining and enforcing defensible space around buildings and reducing fuel sources adjacent to buildings; planting fire-resistant plants and using fire-resistant building materials; managing vegetation responsibly; and creating collaborative partnerships between local communities, natural resource, and fire response groups.

In addition, the **Berkeley City CWPP** was approved in May, 2023. This plan identifies nearby hazards and risks and offers a variety of projects to bolster wildland fire safety through five strategies: prevention, safety and evacuation, wildfire response, resident mitigation and Large-scale landscape treatments.

Alameda County Emergency Operations Plan describes the wildfire threat to the county, and provides an overview of emergency response policies, response and recovery organization, as well as the roles and responsibilities assigned to governmental agencies and community partners.

City of Berkeley General Plan, which includes a specific Policy S-1, Response Planning, meant to ensure that Berkeley's emergency response plans incorporate the latest information and establish clear coordination of roles with other local jurisdictions and agencies, including UC Berkeley

City of Berkeley Local Hazard Mitigation Plan lists wildfire as one of the city's most concerning hazards and offers mitigations, such as prevention through development regulations; natural resource protection through vegetation management; improvement of access and egress routes; and infrastructure maintenance and improvements to support first responders' efforts in reducing fire spread.

G. Vegetation Management

1. Vegetative Fuel Types

Wildfire managers in virtually all US agencies (as well as in other countries where wildland fire hazards are significant) use fuel model systems for computerized wildfire behavior prediction systems. Information regarding fuel volumes and wildfire-behavior descriptions is based upon fuel models described in How to Predict the Spread and Intensity of Forest and Range Fires, by Richard C. Rothermel (1983), published by the USDA Forest Service Intermountain Forest and Range Experiment Station, General Technical Report INT–143.

Fuel models describe vegetation structure in addition to typical species composition. The most significant factor is the amount and distribution of smaller-diameter fuels, because these materials generally spread wildland fires. Another important factor is the amount of dead biomass and the ratio of live-to-dead material in brush and tree stands, since dead biomass contributes fine fuel litter as well as carrying flames more readily. Fuel models include these considerations.

In their system, similar to previous surface fuel model sets, a series of numbers represent fuel models that are grouped by fire-carrying fuel type. Because of the nature of raster calculations, these are represented in the database as numbers. These fuel types and their corresponding numbers, as shown on Figure 30 are:

- Nonburnable (NB) – from 91 to 99
- Grass (GR) – 100s
- Grass-Shrub (GS) – 120s
- Shrub (SH) – 140s
- Timber-Understory (TU) – 160s
- Timber Litter (TL) – 180s
- Slash-Blowdown (SB) – 200s

Further details on each fuel model and their associated fuel loading by size class is provided in the

Scott and Burgan's paper.

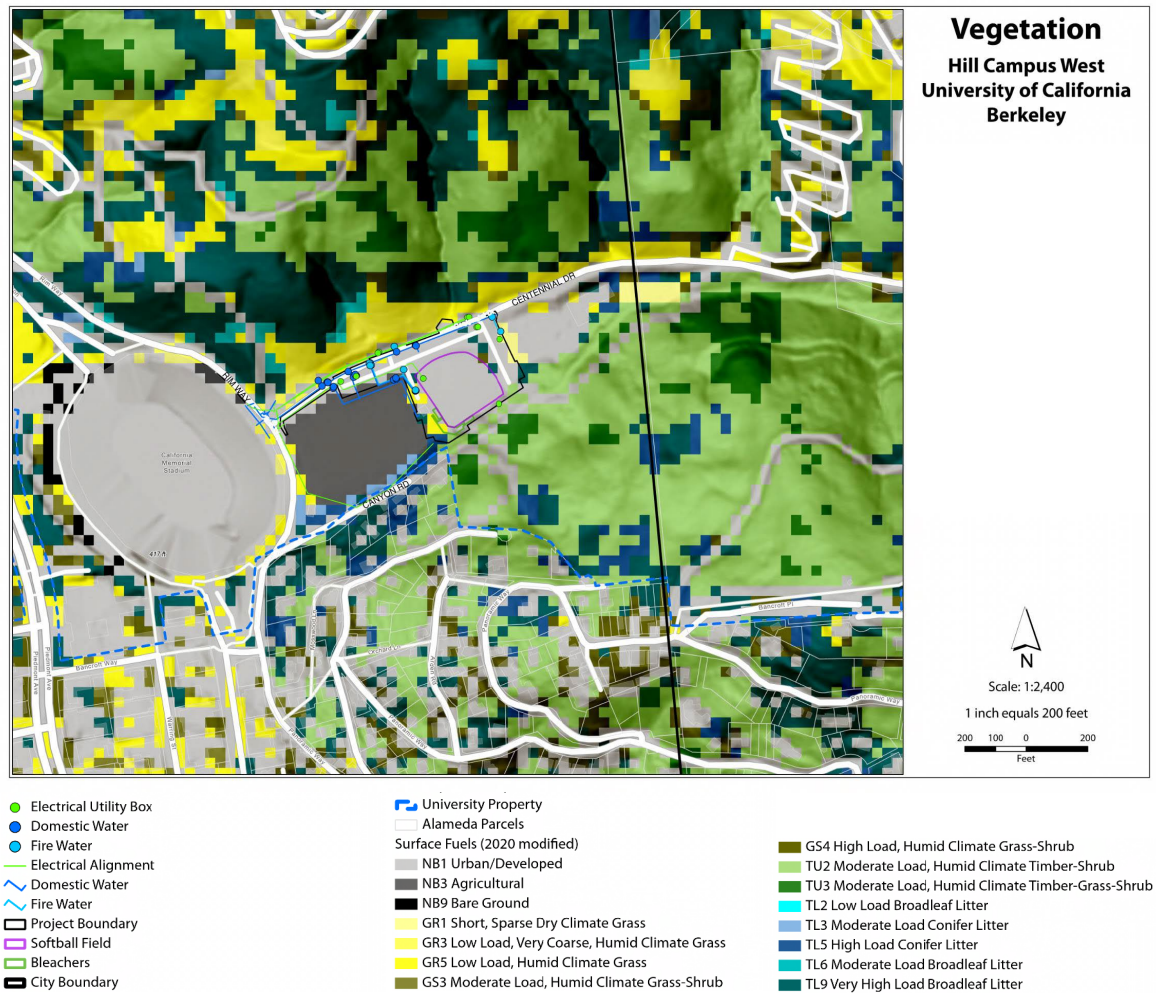


Figure 30: Vegetation Map

Vegetative fuel models in the project and plan area. Fuel types were taken from a California Earth Observatory, based on lidar flown early in 2021, and do not account for fuel treatments along Centennial Dr. done in 2021.
This section describes vegetative fuels on the site in a general way.

a) Low Load, Dry Climate Grass (FBPS Fuel Model GR1, GR3 and GR5)

Grass fuels do not produce much heat, but they produce a fire that travels quickly. Therefore, containment is the greatest challenge posed by these fuel types. In particular, grass can serve as a wick for more hazardous fuels whose ignition is apt to cause greater damage. Grass thus provides an avenue for fire to travel to densely vegetated areas, allowing it to build up enough of a "head of steam" to burn into landscaping or other types of fuels under conditions that would not otherwise be fire-sustaining.

Grassland fuels (both annual and perennial) are fairly uniform and homogeneous in comparison to other fuel types. Generally, grasslands have a light total fuel load, consisting entirely of fine

herbaceous material that cures in the summertime. This material responds markedly to changes in humidity and ignites easily in dry periods.

b) Dry Climate Grass-Shrub (FBPS Fuel Model GS3 [Moderate Load]) and GS4 [High Load]

Some shrubs (mostly coyote brush) are found scattered throughout the project site and beyond. These are classified as a grass-shrub fuel model (GS1 and GS2). Shrubs locally increase fire intensity, but do not affect the rate of fire spread. Shrubs can produce short-range ember cast in both GS1 and GS2 fuel models.

c) Trees (FBPS Fuel Model TL2, TL3, TL5, TL6, TL9, TU2, and TU3)

Because these fuel models were named by the Forest Service, and this organization has most of its land in conifer forests, the fuel models are named "Timber Litter" or "Timber Understory". The fuel models also apply to hardwood forests and woodlands.

These timber (or forest) types represent treed areas where the fire is carried by the forest litter under the tree canopy. The timber type fuel models describe hardwood forests even though no conifers exist in the site analysis area. TL1 and TL2 are associated with low to moderate fire behavior and represent ideal conditions for fire resiliency. However, TL6, because of its higher fuel load and relatively tall tree height coupled with a low canopy base height, can be associated with a high likelihood for a source of embers.

Finally, there are two forest/shrub fuel types (TU2 and TU3). These timber types represent treed areas with a shrubby understory where the fire is carried by grass and shrubs under the tree canopy rather than by forest litter. The timber/forest type fuel models describe hardwood forests.

	Treated		Untreated	
Fuel Model	**Acres**	**Percent**	Acres	Percent
NB1 (91) Urban/Developed	92.69	32%	92.69	32%
NB3 (93) Agricultural	2.87	1%	2.87	1%
NB9 (99) Bare Ground	1.14	0.4%	1.14	0.4%
GR1 (101) Short, Sparse Dry Climate Grass	1.78	1%	1.78	1%
GR3 (103) Low Load, Very Coarse, Humid Climate Grass	5.98	2%	5.98	2%
GR5 (105) Low Load, Humid Climate Grass	28.47	10%	28.47	10%
GS2 (122) Moderate Load, Dry Climate Grass-Shrub	5.81	2%	5.81	2%
GS3 (123) Moderate Load, Humid Climate Grass-Shrub	10.25	4%	10.25	4%
TU1 (161) Low Load Dry Climate Forest-Grass-Shrub	0.69	0.2%	0	0
TU2 (162) Moderate Load, Humid Climate Forest-Shrub	71.39	24%	71.76	25%

TU3 (163) Moderate Load, Humid Climate Forest-Grass-Shrub	6.03	2%	6.35	2%
TL2 (182) Low Load Broadleaf Litter	0.02	0.01%	0.02	0.01%
TL3 (183) Moderate Load Conifer Litter	0.57	0.2%	0.57	0.2%
TL5 (185) High Load Conifer Litter	7.41	3%	7.41	3%
TL6 (186) Moderate Load Broadleaf Litter	1.11	0.4%	1.11	0.4%
TL9 (189) Very High Load Broadleaf Litter	55.35	19%	55.35	19%
SB2 (202) Moderate Load Activity Fuel or Low Load Blowdown	0.02	0.01%	0.02	0.01%

Table 10: Fuel Model

2. Fire-Resistant Landscaping Characteristics and Plant List

Many communities are promoting the use of fire-safe plants and implementing projects to demonstrate techniques for reducing fire risk to structures. Although there have been relatively few research results on the fire resistance of landscape plants, we can provide several important generalities. First, the spacing and design of the garden is more critical than the species planted. Leaving horizontal spaces between planting masses, specimen trees, and the house helps create a fire-safe landscape. Similarly, leaving vertical spaces between tree branches, shrubs, ground cover, and the structure (particularly windows) is important in designing a fire-safe garden.

Second, good maintenance of landscaped areas requires removing dead material and maintaining the vertical and horizontal spaces that create a fire-safe design. The significance of proper plant and landscape maintenance cannot be overemphasized. Design landscapes to discourage the creation of "fuel ladders"—a continuous fuel path by which a fire can climb from the ground to a shrub, to a tree, and ultimately to the structure. Continuous removal of any potential fuel ladders needs to be part of routine landscape maintenance. Poorly maintained landscapes can easily become fire hazards, even if many of the plants are favorably recommended for fire performance.

Third, desirable landscaping plant species have a low fuel volume and high foliar moisture and do not have a tendency to produce and "hold" dead wood. They also have a proper growth form: for example, ground covers or fruit trees (which inherently have adequate vertical spacing or branches).

Some common landscape species are explosive and can exhibit dramatic fire behavior. For example, a juniper that is six square foot in area can produce flames over 15 foot in length. Appendix A of this report contains a list of such prohibited plants.

Factors that must be considered in rating the fire performance of plants include:

1. Total volume: The greater the volume of plant material (potential fuel) present, the greater the fire hazard.
2. Moisture content: The moisture content of plants is an important consideration; high levels of plant moisture can both lower fire risk and act as a heat sink if a fire occurs,

reducing its intensity and spread.

3. Amount and distribution of dead material: The amount of dead material in a given plant influences the total amount of water in the overall plant; the dead material is usually much drier than living tissue. Whereas dead material rarely has a moisture content higher than 25 percent, live foliage moisture content ranges from 60 to 80 percent for chaparral species in xeric conditions to a high of 200 to 400 percent for succulent plants or plants under irrigation.
4. Size of leaves, twigs, and branches: Materials with large surface areas (such as needles, twigs, or large flat leaves) dry more rapidly under fire conditions than materials with lower surface ratios (such as branches and fleshy leaves).
5. Geometry and arrangement of the plant (overall spatial distribution of the biomass): The shape of a plant and the way in which the biomass is distributed throughout the plant is important because this bulk density affects the air flow and heat transfer through the plant. The arrangement of material within the plant affects its fuel continuity and its tendency to undergo preheating and promote fire spread.

All of the above-mentioned plant characteristics are related to maintenance issues. Plants with a higher moisture content generally have a lower fire risk. For example, the moisture content of a plant is absolutely influenced by regular and proper irrigation, and large amounts of dead material lower the plant's overall moisture content. To increase the plant's overall moisture content, it is important to remove and properly dispose of dead material. In addition, regular fire-prevention maintenance should include thinning or pruning to reduce fuel volume and improve plant geometry.

An appropriately landscaped and maintained defensible space will reduce the fire hazard and the fire risk to structures. A landscape environment that is inconsistently or improperly maintained does not function as defensible space, and it contributes to the fire hazard. Consult a nursery or landscape professional for their recommendations on plant spacing, pruning, aeration, fertilization, irrigation, and other cultivation practices.

3. Monitoring of Fuel Management Effects

a) Standards for Vegetation Treatments

i. 2.4.4.2 Standards for Defensible Space

- A minimum of five feet wide zone (the Non-Combustible Zone) nearest the structure should be kept free of all woody plants and combustible materials.
- Keep the ground free of dead leaves, mulch, needles or other plant debris. The ground surface should be composed of inorganic, non-combustible, material such as decomposed granite, pebbles, or rock/flagstone.
- Vegetation in the non-combustible zone could include irrigated lawns and succulents but would exclude woody plants.
- Dead material that drapes over ground cover will be removed. This includes leaves, bark, and branches.
- Cut and chip trees with a high fuel volume that are at risk of falling on buildings, structurally unsound, or are unhealthy. Large, "legacy trees" that are structurally sound, and with branches that are 30-40 feet above ground will be retained.
- Remove all dead plants and dry vegetation.
- Cut grass and weeds within 15 feet of the pavement edge and within 30 feet of a structure to less than four inches in height.
- Remove leaves, bark, and humus under trees and shrubs (including vines and semi-woody

species) so that the buildup of leaves and humus will not exceed two inches in depth anywhere in a defensible space within a year. However, do not expose bare earth in over 50 percent of the site.

- Remove dead material that drapes over ground cover (including leaves, bark, and branches).
- From mature trees, remove all vines, loose papery bark, dead branches, and live branches smaller than three inches in diameter to a height of eight feet above the ground.
- Remove all dead branches from within live ground covers, vines, shrubs (including semi-woody species), and immature trees.
- Prune trees and large tree-form shrubs (e.g., elderberry or toyon) that are being retained.
- All lower tree branches, under three inches in diameter, will be removed up to eight feet above the ground, or on the lower third of trees, whichever is less (see Figure 31, below). OR,
- All lower tree branches, under three inches in diameter, will be removed to provide vertical clearance of three times the height of the understory plants, or eight feet above understory plants, whichever is greater. Retention of short understory shrubs provides aesthetic benefits and wildlife habitat without sacrificing fire safety; alternatively, trees will be pruned to a higher height in order to allow for screening from the understory shrubs.
- In young trees, remove the branches on the lower one-third of the height of the tree. Example: if a tree is 10 feet tall, prune the lower three to four feet and keep the understory plant material to less than one foot in height. As the tree grows to 24 feet in height, it can achieve the eight feet distance from the ground, and the understory plant material can reach two and a half feet in height.

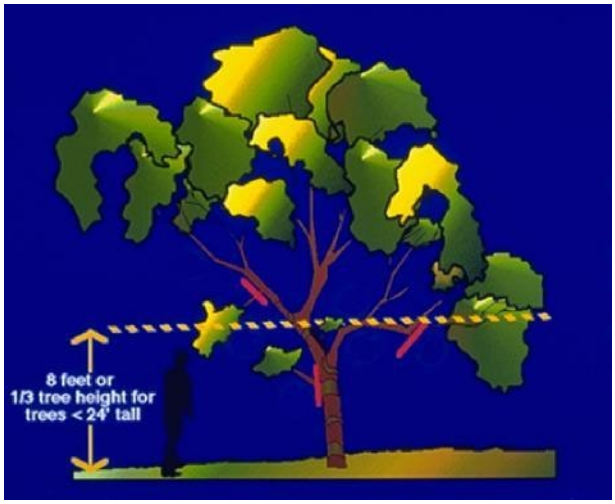


Figure 31: Prune branches to a height of eight feet above the ground. In young trees, prune branches on the lower one-third of the height of the tree. Do not disturb or thin the tree canopy. This promotes growth in the understory, which is more easily ignited.

- All dead branches smaller than three inches in diameter will be removed. All dead limbs greater than three inches in diameter should be retained where they do not pose a public safety of fire risk.
- Do not thin or prune the upper tree canopy, as this will promote more growth in the lower parts of the tree and may result in increased risk that fire will spread to the tree canopy.
- Sometimes small trees may need to be cut to the ground in order to achieve the separation

of the ground level from another, larger, tree canopy, or because mowing equipment cannot avoid the small trees.

- Maintain at least eight feet of vertical clearance between roof surfaces and overhanging portions of trees.
- Manage individual plants or shrub masses to maintain horizontal spacing, per Figure 32 below. Design distinct groupings of shrubs (including vines, semi-woody species, all types of brush, and all chaparral species). Make sure the plant groupings are small enough to provide adequate horizontal separation between groupings and to allow proper maintenance; groupings should measure no wider than two times the grouping height, or 120 square feet. The space between islands should be greater than three times the height of the shrubs (see Figure 32).
- Remove and safely dispose of all cut vegetation and hazardous refuse, using a gasifier or air-curtain type burner wherever possible.
- Chipped materials may remain on site, provided the mulch layer is no greater than three inches in depth.



Figure 32: Shrub island spacing. Design groups of plants small enough to provide horizontal separation between groups. This allows proper maintenance and helps slow the spread of fire. Each shrub or group of plants should measure no wider than two times its height, or less than 120 square feet (or 6 feet x 20 feet). The space between groups should be greater than three times the height of the shrubs.

ii. 2.4.4.3 Standards for Roadside Treatments

Within 10 feet of road pavement edge:

- Grassland vegetation and invasive weeds will be mowed to a four inch height or treated with herbicide annually before the grass grows to an average of four inches in height. In unusual circumstances when rains occur after grass is mowed, grass may be allowed to regrow or need to be re-mowed.
- Understory shrubs will be removed under trees or shortened to create a vertical distance between the top of the shrub and the bottom of the tree canopy of three times the shrub height.
- Trees will be pruned of lower branches (to eight feet in height, or the lower third of branches).
- All tree branches extending over roadway surfaces should be pruned to ensure at least 15 feet of vertical clearance.
-

iii. 2.4.4.4 Evacuation Support Treatments

Evacuation support treatment areas are described below. In all areas, vegetation treatment for evacuation support focuses on removing highly flammable trees, understory shrubs and small

trees that could enable torching, and trees that may block access/egress should they fall. The goal for evacuation support treatments is to improve public safety and reduce loss from wildfires by supporting the conversion of the existing fire-prone forest to vegetation with more favorable burning characteristics.

In areas located within 100 feet of Centennial Drive, Claremont Avenue, and Jordan Fire Trail (see Figure 14) vegetation treatments focus on achieving a two to four feet predicted flame length immediately after treatment. Vegetation treatments aim to remove high-volume vegetation and create discontinuity in the fuel so that in the event of fire, the rate of spread is slowed, and flame lengths meet the treatment goal in treated areas. UC Berkeley treats and maintains the first 10 feet from the pavement edge for evacuation support treatments, as described above in Sections 1.4.4.3.

In the Evacuation Support treatment area, UC Berkeley removes all dead, unhealthy or trees leaning toward Centennial Drive, Rim Way, Claremont Avenue and Jordan Fire Trail. "Specimen" trees identified by the UC Berkeley landscape architect that are healthy and that do not pose a public hazard are retained, per the Campus Specimen Tree Program (UC Berkeley, 1990), and all shrubs under them removed. Trees to be retained are protected during treatment periods. UC Berkeley applies practices consistent with those used by the International Society of Arboriculture and follows current California Forest Practice Rules.

In evacuation support treatment areas, UC Berkeley removes lower branches of all trees to a minimum height of eight feet, and understory vegetation. Shrubs are removed or thinned to a minimum spacing of six feet. Surface vegetative fuels may include short shrubs with little dead material, leaf litter, annual and perennial grass. Taller shrubs may be present well away from a tree canopy. Grass is cut every fire season within 10 feet of the pavement edge of Centennial Drive, Rim Way, and Jordan Fire Trail. Branches hanging over roadbeds or fire trails are trimmed to a height of 15 feet above ground. Dead surface fuels smaller than six inches in diameter are removed. Leaf litter of less than six inches in depth is typically left and dead trees are removed. Chips will cover most surfaces within the area upon completion of the treatment; in this treatment area chip depth can be as deep as six inches.

See https://facilities.berkeley.edu/news/centennial-drive-evacuation-support-project for details of the prescription.

H. Fire History & Risk

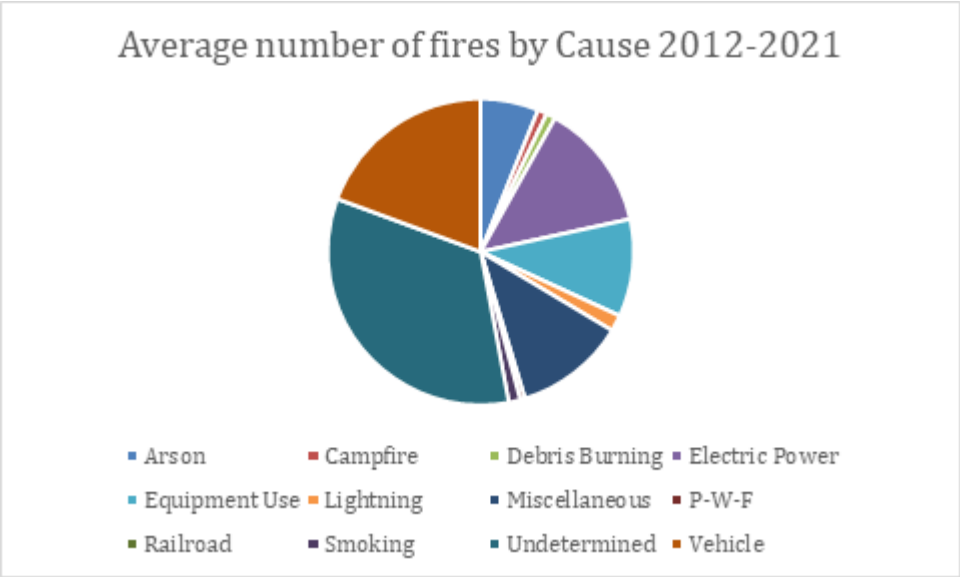


Figure 33: Average Number of Fires by Cause 2012-2021 (CAL FIRE)

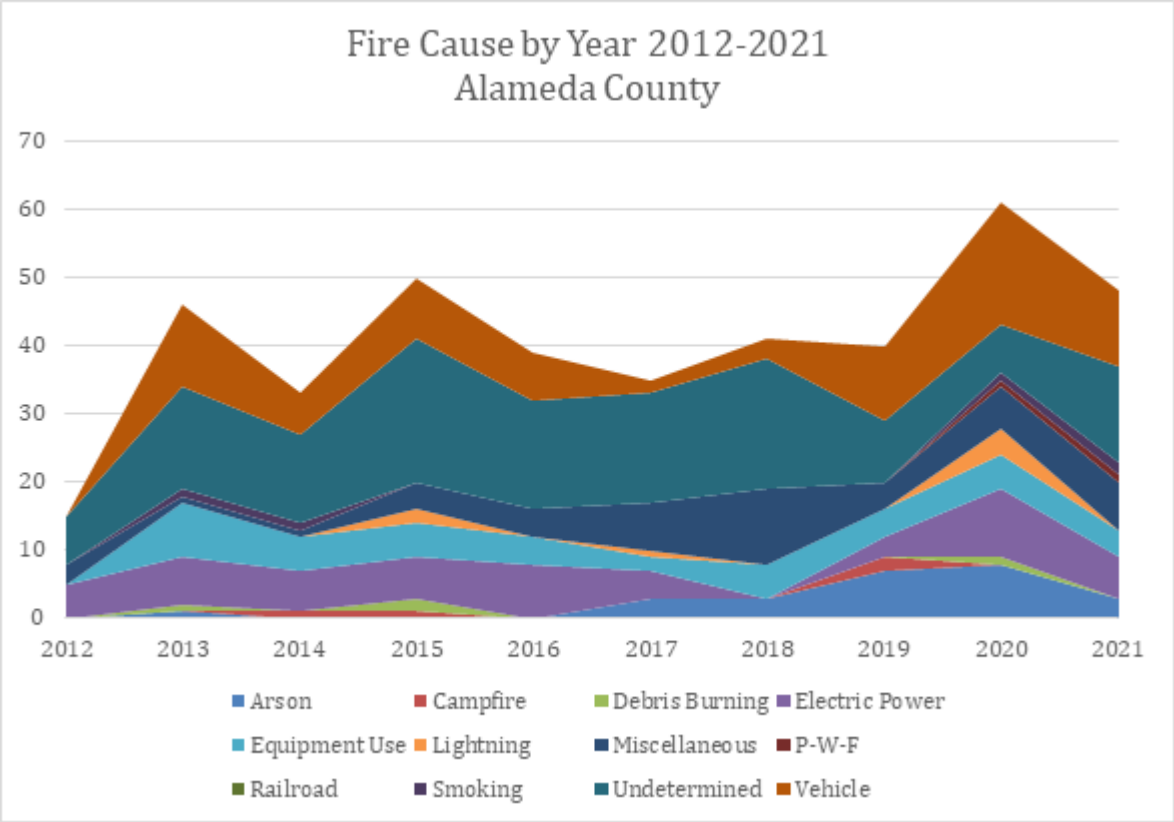


Figure 34: Fire Cause by Year 2012-2021 Alameda County (CAL FIRE)

I. Fire Conditions

1. Fire Hazard Assessment

There are many ways to assess fire behavior. Most utilize the three main factors of fuels, weather,

and topography, with possible inclusions of elevation, or fire history. Fire behavior outputs can warn where natural resources may be severely harmed by a wildfire. A fire behavior prediction model called FlamMap was used for this wildfire hazard assessment. FlamMap is a computerized fuel and fire behavior prediction model developed by the USDA Forest Service at the Intermountain Forest Fire Research Laboratory. The heat transfer formulas in FlamMap are based on the software program BEHAVE, used in wildfire behavior prediction since the 1970s. FlamMap allows prediction of fire behavior on a spatial basis, portraying the locations of various flame lengths, heat release, and rate of spread along with type of fire (crown fire, surface fire, or a fire that torches trees).



Figure 35: Hillside with Leaf Litter south of the project site. Source: Carol Rice

Area of low wildfire hazard, due to previous treatments to reduce fuel volume and create vertical spaces between the forest floor and bottom tree branches.

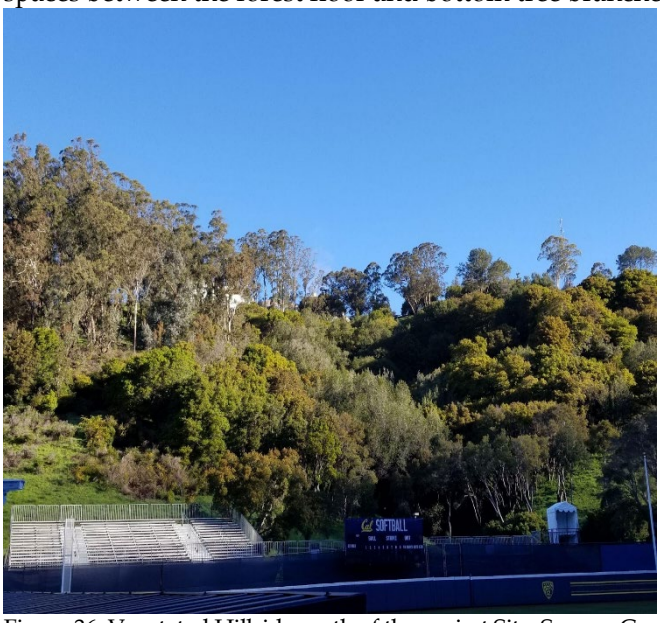


Figure 36: Vegetated Hillside north of the project Site. Source: Carol Rice

Heavy vegetation on slope north of the project site. While treatments have made the area within 100 foot of Centennial Drive safer, the slope above contains hazardous fuels in the form of eucalyptus and dead trees, with abundant shrubby understory.

The City of Berkeley CWPP analyzed hazard of lands just south of the project site, into an Integrated Fire Hazard. This assessment combined the probability of burning, with predicted fire

intensity and Suppression difficulty (based on access), and ember production and density of embers when landing. The UCB Campus was not included in the Berkeley City CWPP. This hazard assessment does include private lands adjacent to the Campus. The assessment indicates that some of the private property near the project is categorized as high hazard while others are categorized as moderate. Figure 37 below indicates how wildfire severity is not expected to be high in most places near the project site. The locations of expected high fire severity can be managed through pre-fire treatments to alter fuel volume and spacing in order to minimize deleterious environmental effects.

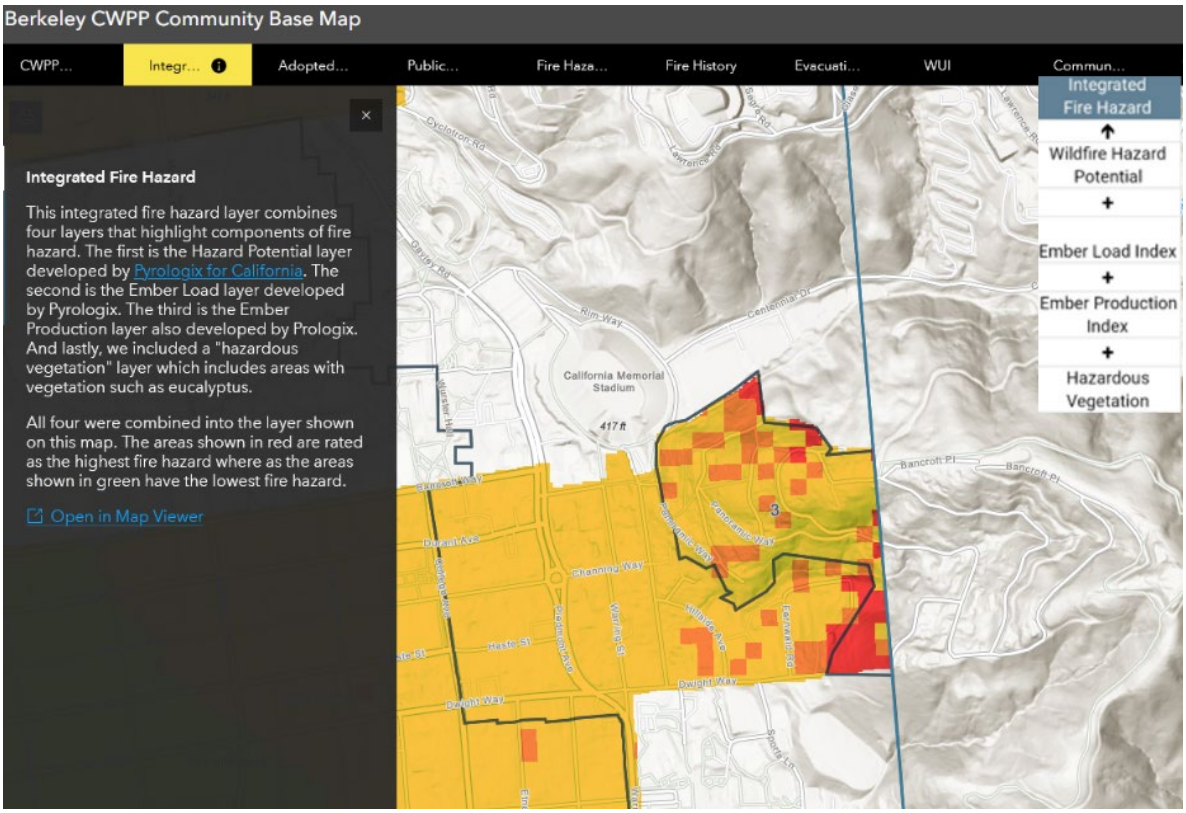


Figure 37: Integrated Fire Hazard

CAL FIRE also maps the results of different special analyses, and include:

1. Communities at Risk: CAL FIRE Fire and Resource Assessment Program (FRAP) combined data from the Fire Hazard Severity Zones and CAL FIRE Wildland Urban Interface maps to visualize communities that are at high risk from wildfire damage. This assessment combines fire hazard severity zones and assets (expressed as housing density combined with many other factors) is intended to help land managers understand what areas should be prioritized when developing hazard reduction projects. Areas are split into "priority" classifications, with class 1 areas being lower risk, and therefore lower priority for fuel treatments, than class 5 areas. The data layer prioritizes lands where communities (people and associated infrastructure) are at risk from wildfire to direct efforts at reducing wildfire risk in these areas. The plan area is in the highest classification of risk to the community because of the high density of structures, combined with its classification as Very High Fire Hazard Severity Zone.



Figure 38: Fire Hazard Severity Zones From Alameda-Contra Costa Regional Priority Plan https://alameda-and-contra-costa-county-regional-priority-plan-ccrcd.hub.arcgis.com/apps/6216180a2f13468e82d96872048ae3cf/explore

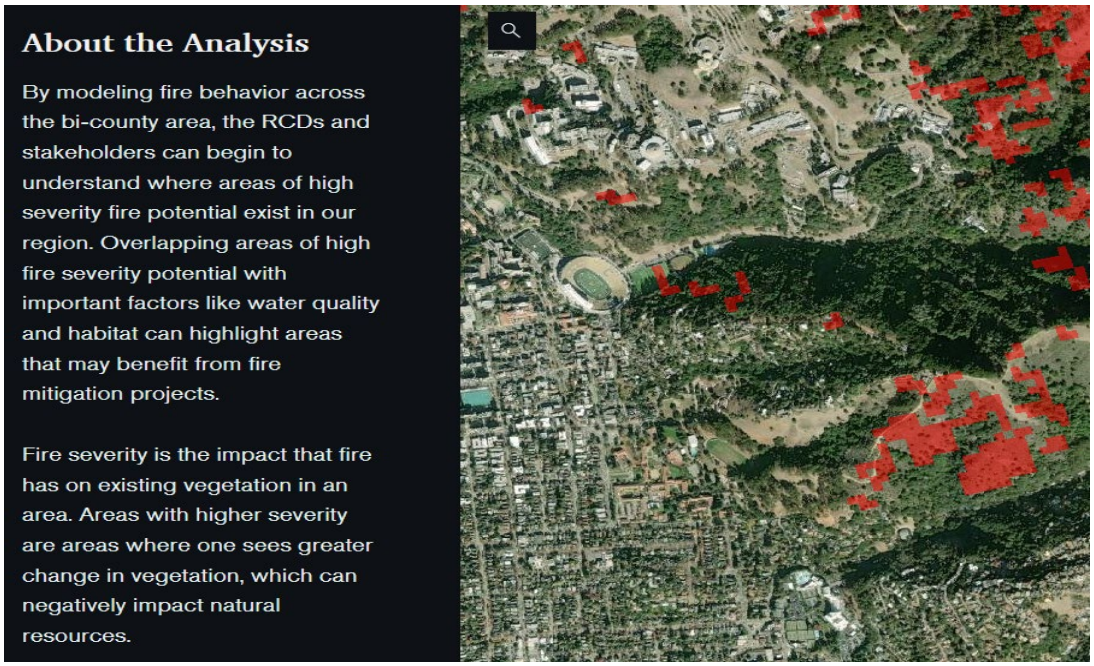


Figure 39: High Fire Severity Areas

a) 4.5.1.2.4. Areas of High Fire Severity

In contrast, wildfire hazard can be seen as threats to natural resources, as a result of high-severity wildfire. Higher fire severity can negatively impact natural resources, so this information is valuable to show us areas that may benefit from fire mitigation projects.

The model uses 2018 LANDFIRE data and assumes extreme fire weather conditions. Areas with torching (where surface fires burn into the tree canopy via tall shrubs or low tree branches) and crown fire (where fire spreads in the canopy from tree to tree) potential are combined with areas where flame lengths are greater or equal to eight feet. This data layer has been overlaid on other data to identify areas where important natural and community resources may be impacted by high severity fire.

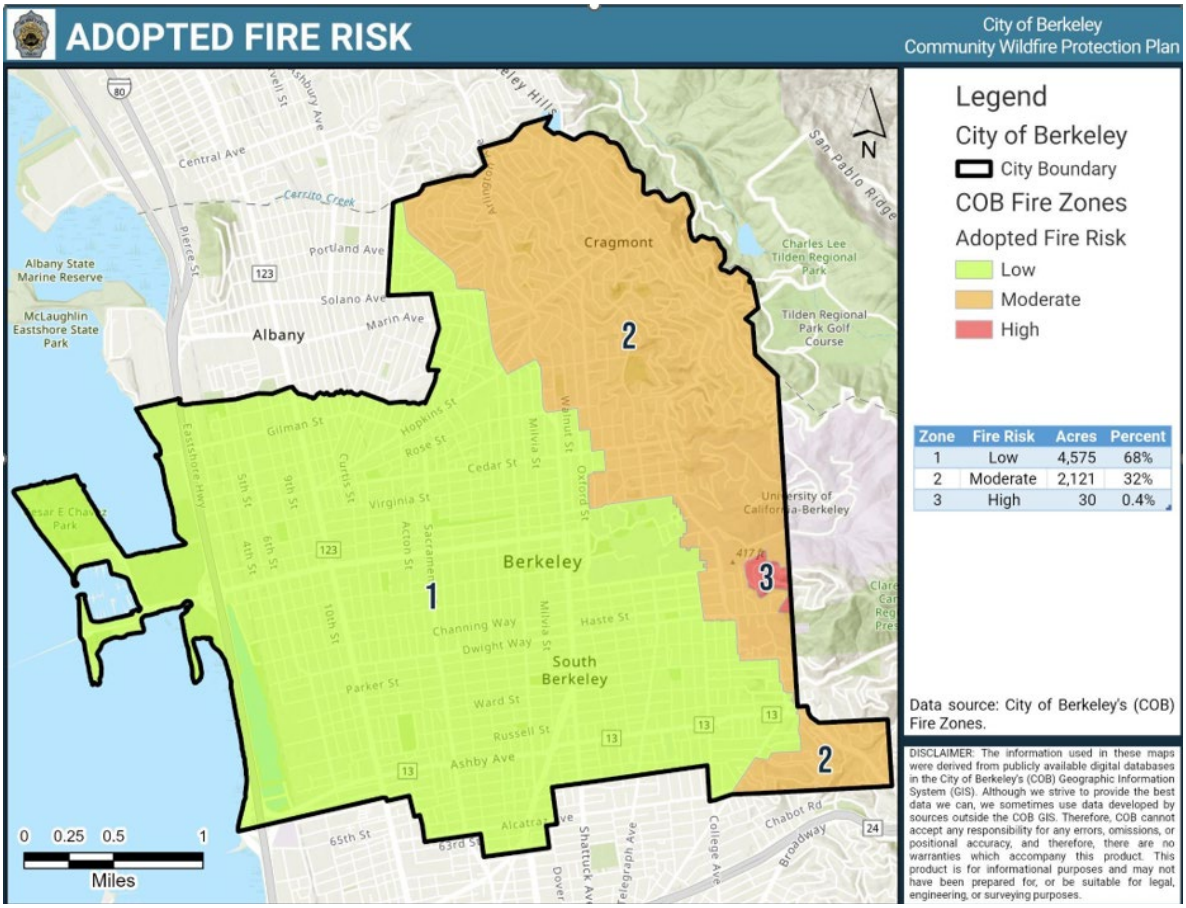


Figure 40: City of Berkeley Fire Zones

This assessment is somewhat similar to the delineation of the area south of the project site (Panoramic Hill) as Zone 3, as defined by the City of Berkeley Hazardous Fire Area per City Ordinance No. 7,157-N.S.. This delineation is based on poor access, and water supply, coupled with steep terrain and adjacent wildlands.

2. Predicted Fire Behavior

For this analysis FlamMap was used to predict fire behavior. FlamMap assumes the entire area is on fire under the same weather and fuel moisture conditions. Because environmental conditions remain constant in the modeling environment in FlamMap, the software will not simulate temporal variations in fire behavior caused by weather and diurnal fluctuations as another popular fire behavior prediction software (i.e., FARSITE). Nor will FlamMap display spatial variations caused by backing or flanking fire behavior. These limitations need to be considered when viewing FlamMap output in an absolute rather than relative sense. Nevertheless, outputs from FlamMap are well-suited for landscape level comparisons of fuel treatment effectiveness because fuel is the only variable that changes. Outputs and comparisons can be used to identify combinations of hazardous fuel and topography, aiding in prioritizing fuel treatments (USFS, 2018).

Wildfire simulations produce several measures of wildfire hazard at the near-maximum potential for wildfire behavior that hypothetically could occur. These measures include flame length, rate of fire spread, and crown fire potential.

Fire potential with the use of FlamMap refers to predicting fire behavior across a landscape as if each pixel is burning independent of everything else. This type of fire behavior prediction allows a comparison between different fuel treatments while holding everything else constant.

a) Flame Length

Flame length (measured in feet) is the length of the flame at the head of the fire measured from the middle of the combustion zone to the average position of the flame tip (Andrews and Rothermel, 1982). Flame length is often correlated to the ability to control a fire. A flame length of four feet is the limit of what can be attacked with hand crews, and eight feet is usually looked at as a cut-off point for strategic firefighting decisions on whether to attack the fire directly, or instead attempt control through indirect methods. Attacking the fire directly involves efforts to slow the flaming front at its head – where it is advancing fastest. Indirect attack involves fire control methods on the fire's flank or well ahead of the fire (using backfires or retardants). Flame length closely corresponds to fire intensity, which can predict fire severity and potential damage to the environment.

Flame lengths are often used as a proxy for fire intensity because they are highly correlated with natural resource impacts. Flame length is the result of one other fire prediction output: fireline intensity times a constant. Fireline intensity is the result of two fuel model inputs (heat yield or the BTU/lb of fuel and the weight of available fuel) along with one other fire prediction output (rate of spread). Flame length, reported in feet, is the numerical characteristic that encompasses the flaming front of a fire and its interaction with wind and the fire's radiation and convection heat transfer to adjacent fuel (Andrews, 2018).

Note the fire behavior outputs do not reflect fuel treatments for 100 foot on both sides of Centennial for evacuation support.



Figure 41: Fuels South of project site. Source: Carol Rice

Example of fuels immediately south of the project site, with expected short flame lengths.

b) Rate of Spread

Rate of spread, or the rate at which a fire moves across a specific fuel bed, is a much more complicated parameter to predict. Factors used to determine rate of spread include energy released from the fuel, wind and slope factor, density of the fuel bed, heat of pre-ignition (i.e., amount of heat required to ignite one pound of fuel), a heat source, and a heat sink along with other propagating ratios and coefficients (Andrews, 2018).

Rate of spread (measured in chains per hour, where one chain equals 66 feet, and 80 chains equals one mile) is the forward rate of spread at the head of a surface fire. While a fast rate of spread does not necessarily result in a problematic fire, a fast-moving fire coupled with high flame lengths cannot be suppressed with a hand-crew. High rates of fire spread is associated with both unmowed grasslands, and in stands of tall, dense shrubs.

This measurement is the forward rate of spread at the head of a surface fire. The metric of rate of spread is of concern when considering fire containment, response times, and evacuation. A slow-moving fire (for example, slower than 1/8th mile per hour/ 11 feet per minute) might be easily contained whereas fast-moving fire (a fire moving faster than one mile per hour/ 88 feet per minute) challenges containment and has the potential to move into high value sensitive areas before containment can occur. While a fast rate of spread does not necessarily result in a problematic fire, a fast-moving fire coupled with high flame lengths cannot be suppressed with a hand-crew.

This fire behavior output does not reflect the fuel treatments along Centennial Dr. Grass is mowed annually, and thus would not spread rapidly, as currently depicted in Figure 24.

c) Crown Fire Potential

Crowning activity indicates locations where fire is expected to travel into and possibly consume the crowns. A fire can burn exclusively along the forest floor (called a surface fire), or it can climb and consume the tree crown of an individual tree (torching), or it can reach into and spread through tree canopy to tree canopy (crown fire).

When a fire burns through tree crowns, countless embers are produced and are distributed,

sometimes at long distances. These embers can start new fires, which can each grow and confound the finest fire suppression forces.

A surface fire that makes the transition to some form of crown fire is modeled from canopy base height, stand height, canopy bulk density, and foliar moisture content. It is important to keep in mind that crown fire activity only pertains to treed fuel model types. Crown fires and torching can occur only where there are trees; shrub stands can burn intensely and still not torch.

Hot fires create embers that loft ahead of the flaming front that ignite new fires called "spot fires". "Spotting potential" or "crowning potential" describes the propensity of vegetation to create and disburse embers that have the potential to start countless new fires well in advance of the main fire.

J. Post-Fire Actions

The following section on Post-Fire Actions does not describe any actions which are required as a part of the Project. These are considerations and recommended actions for the site where it to be affected by wildfire. Following the impact of wildland fire to the project site, the site would need to be assessed, stabilized, cleaned, inspected, and rehabilitated in a manner which is in the best interest of the University, the general public, and the environment, and in accordance with applicable local, state, and federal regulations. Depending on the size of the fire, it is likely the cleanup of the project site will be a single facet of a Campus-wide, City-wide, or County-wide response. If the extent of the wildland fire is larger than the softball field itself, the local jurisdiction operating the disaster public assistance cleanup program or providing oversight and / or guidance of the cleanup of properties will likely support the majority of site cleanup efforts.

1. Site Assessment

Cleanup of sites impacted by wildland fire is complex to manage, as the toxicity of burnt material will vary depending on the construction materials utilized; the synthetic turf within the softball field will have a greater toxicity when burnt than the Purple Needlegrass, California Barley, Meadow Barley, Molate Fescue, Blue Grama, Autumn Moor Grass, Deer Grass, Native Bentgrass, and organic mulch utilized in the landscaped areas around the proposed field. Any ash or melted debris resulting from the impact of fire to the proposed field itself, including but not limited to synthetic turf, safety netting, precast seating, and audio/visual equipment would require a higher level of stabilization to prevent potential entrainment of toxic substances in stormwater. Only areas of the project site susceptible to erosion will require stabilization utilizing the methods outlined below in Subsection B, and care must be taken during site cleanup to minimize disturbance of low-slope vegetated areas; most California Native plant ecologies are adapted to fire and require little to no human involvement to regenerate. An arborist shall be consulted before removal or trimming of trees onsite.

2. Site Cleanup Actions

a) Separation of Debris Types

As debris and ash produced from the impact of wildland fire to the project site may contain both non-hazardous and hazardous waste, it must be handled within the waste management programs outlined within Federal regulations such as the Resource Conservation and Recovery Act (RCRA), the Compensation and Liability Act (CERCLA), and any State regulations more stringent than Federal regulations (CalEPA, 2011). If cleanup at the project site is part of a Campus-wide, City-wide, or County-wide response, the local jurisdiction operating the disaster public assistance

cleanup program or providing oversight and/or guidance of the cleanup properties will likely provide the guidance necessary to ensure materials are handled according to all applicable regulations. If only the Cal Softball Field is impacted, a hazardous and nonhazardous waste management service shall be contracted to ensure proper handling and disposition of all materials onsite.

b) Hazardous Waste

The following should be considered during the site cleanup process (CalEPA, 2011):

1. Conducting emergency removal actions requires several steps before the classification and removal of waste can begin: a Health and Safety Plan (HASP) meeting the Occupational Safety and Health Administration (OSHA) requirement of 29 CFR 1910.120 and Title 8 Section 5192 of the California Code of Regulations (CCR) must be developed. Due to the nature of the ash and debris, a community safety plan may be necessary to meet the requirements of the Community Right-to-Know Act. Onsite and community based air monitoring should be considered if there are elevated concerns about the impact to the surrounding community from recovery operations.
2. Hazardous materials should be cleared from the site pursuant to CalOSHA and OSHA HAZWOPER requirements prior to debris removal activities. Initial assessment for hazardous materials should include screening for gross asbestos; firearms and ammunition; black powder; blasting caps; fireworks; military ordinance; radioactivity; flammable atmosphere; automotive/marine batteries; automotive oils and fuel; compressed gas cylinders; propane tanks; herbicides and pesticides; solvents; paint thinners and strippers; oil and latex-based paints; and pool chemicals.
3. Once assessment and removal of hazardous materials is complete, debris, burn ash, and other wastes identified during cleanup activities must be vetted for regulation under federal regulations such as the Resource Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Some waste streams from wildfires and other natural disasters may be considered special waste similar to those classified as universal waste. The lead agency for undertaking the emergency removal actions must ensure compliance with applicable federal and state laws and regulations for transportation and disposal. A representative for the lead agency or generator must sign manifests for shipping solid and hazardous waste off site.

c) Sediment and Toxicity Containment

As required by 22 CCR § 66261.24, Waste Extraction Testing (WET) may be required to ensure waste does not exceed Soluble Threshold Limit Concentration (STLC) and Total Threshold Limit Concentration (TTLC) values.

All waste material not loaded out at the end of each workday should be stockpiled, sufficiently wetted, and /or covered to prevent the offsite migration of contaminants via wind or stormwater (CalEPA, 2011).

d) Inspection of Structures before cleanup

The site cleanup process must be reviewed by a qualified engineer to confirm reusability of certain site infrastructure. Underground utilities and building foundations may not be significantly impacted, so an engineer should be consulted to determine what site infrastructure can be reused before removal. Cleanup activities will instigate the need for a site-specific erosion control plan.

3. Erosion Mitigation and Slope Stabilization

Areas within burn scars are susceptible to increased risk of debris flows due to the lack of groundcover vegetation which provides a natural form of erosion control and slope stabilization. Methods to restabilize affected areas include implementation of Best Management Practices including fiber rolls, hydroseed, silt fence, compost blankets, and/or soil binders. These post-fire procedures apply to the current facility as well at the proposed facility.

a) Post fire erosion control

While soils located within and around the project site include hydrologic soil group (HSG) D soils (USDA NRCS, 2023) which can generate high rates of runoff from storm events, the proposed drainage plan has been designed to prevent sheet flow onto or off of the site. While it is possible that the impact of wildland fire to the slopes of Strawberry Canyon may result in a debris flow which impacts the proposed Cal Softball Field from the north or south, the conveyance of contaminant-entrained stormwater from the project site into the drainage system can be mitigated with the proper installation of appropriate stormwater best management practices, described below.

b) Slope Stabilization Strategies

Stormwater Best Management Practices (BMPs) are implemented to quickly and efficiently replace the function of onsite erosion control measures damaged by the impact of wildland fire, with the ultimate goal of preventing contaminant entrained stormwater from entering drainage systems and reaching the Waters of the State. (Recommended BMPs to be utilized after the project site is impacted by wildland fire can be found in the sections below).

c) Area-specific response based on soil types/slopes/inlets/buildings

While cleanup of the site after wildland fire impact will require preparation and implementation of a Post-Fire Erosion Control Plan by a Civil Engineer, licensed contractor, or other qualified professional, typical erosion mitigation measures can be outlined based on those implemented during previous post-fire projects. Listed below are potential deployment locations of stormwater best management practices, with the overarching goal of preventing conveyance of toxic debris- and sediment-entrained stormwater via the drainage system to Waters of the State.

Additional information on recommended erosion control measures can be found in Appendix J.2.

i. Parking Area and Fire Truck turnaround

It is unlikely that stormwater falling within the parking area and fire truck turnaround area will become entrained with sediments or contaminants, as there is minimal chance of contaminant release when driving and parking vehicles. Burnt vehicles must be stabilized with a ring of compost sock or similar filtering material. Landscaped areas include installation of irrigation equipment which has the potential to melt if impacted by wildland fire, including inline drip tubing, tree bubblers, and ancillary equipment (See HOK Conformed Set Irrigation Plan C 109). In order to prevent the release of contaminant-entrained stormwater to the drainage system, it is recommended the following drain inlets be protected with filter fabric, fiber rolls, sandbag barrier, or a combination thereof: EX-CB1, EX-CB2, CB1, CB2, CB3, CB4, CB5, CB6, CB7, CB8, and CB9 (See HOK Conformed Set Drainage Plan C105).

ii. Boundary with Witter Rugby Field

The sloped, landscaped area between the proposed softball field and the existing Witter Rugby

Field, if impacted by wildland fire, has the potential to discharge sediment- (by means of unstabilized slope) and contaminant- (by means of melted irrigation equipment) entrained stormwater. To prevent this stormwater from running off the proposed site and onto the Witter Rugby Field, the slope should be stabilized by utilizing fiber rolls, hydroseed, compost blankets, and/or soil binders and the eastern perimeter of the site should be stabilized with silt fence.

iii. Softball Field and Concourse Area

The synthetic turf field and concourse area, if burned, has the potential to discharge a variety of contaminants and sediment to the storm drain system if impacted by wildland fire. To prevent sediments or contaminated material from being transported by wind, dust suppressants or minimal amounts of water may be applied to the debris. To prevent discharge of contaminant- and sediment-entrained stormwater to the storm drain system, stormwater may be diverted from EX-MH 60IN CULVERT to a temporary sediment trap constructed in the landscaped area between the softball field and Witter Rugby Field. This diverted stormwater may then be pumped through a dewatering sediment filter bag before being discharged to the storm drain system via CB9.

iv. Burnt Structural Debris

Debris at structures should be stabilized to prevent erosion and transport of debris via stormwater. Fiber rolls, sand bag berms, or silt fences should be properly installed around locations containing buildings, sheds, exposed burnt plastic pipes, above ground irrigation, and portable sanitary facilities to divert stormwater runoff away from debris and filter sediments entrained in stormwater running off of the debris. Ash and debris should remain undisturbed during installation of sediment control devices.

d) Recommended Erosion Control Measures

i. Drain Inlet Protection

"All storm drain inlets within the vicinity of the burn site need to be should have filter fabric installed underneath the inlet grate in addition to sandbag barrier or fiber rolls surrounding inlet entrances.

"Application - All temporary inlet protection should have a drainage area no greater than 1 acre per inlet. Temporary controls should be constructed before the surrounding landscape is disturbed. Excavated drop inlet protection and block and gravel inlet protection are applicable to areas of high flow, where drain overflow is expected. Fabric barriers are recommended for smaller, flatter drainage areas (slopes less than 5 percent leading to the drain). Temporary drop inlet control measures are often used in sequence or with other erosion control techniques.

"Maintenance - Check all temporary control measures after each storm event. Remove all accumulated sediment from the area around the drop inlet when it reaches 1/3 the barrier height. Repair or replace broken or ripped bags, and reshape as necessary. When no longer needed, remove the barrier and accumulated sediment then clean, re-grade, and stabilize the area." (CalEPA, 2011)

ii. Fiber Rolls

"Description - Fiber rolls (also called fiber logs or straw wattles) are tube-shaped erosion-control devices filled with straw, flax, rice, coconut fiber material, or composted material. Each roll is wrapped with UV-degradable polypropylene netting for longevity or with 100 percent biodegradable materials like burlap, jute, or coir. Fiber rolls complement permanent best management practices used for source control and re-vegetation. When installed in combination with straw mulch, erosion control blankets, hydraulic mulches, or bounded fiber matrices for slope

stabilization, these devices reduce the effects of long or steep slopes (Earth Saver Erosion Control Products, 2005). Fiber rolls help to slow, filter, and spread overland flows. Fiber rolls also help reduce sediment loads to receiving waters by filtering runoff and capturing sediments.

"Application - On slopes, install fiber rolls along the contour with a slight downward angle at the end of each row to prevent ponding at the midsection (California Straw Works, 2005). Turn the ends of each fiber roll upslope to prevent runoff from flowing around the roll. Install fiber rolls in shallow trenches dug 3 to 5 inches deep for soft, loamy soils and 2 to 3 inches deep for hard, rocky soils. Determine the vertical spacing for slope installations on the basis of the slope gradient and soil type. According to California Straw Works (2005), a good rule of thumb is: 1:1 slopes = 10 feet apart 2:1, slopes = 20 feet apart 3:,1 slopes = 30 feet apart, 4:1 slopes = 40 feet apart.

"On projects without slopes, Fiber rolls can also be used at projects with minimal slopes. Typically, the rolls are installed along sidewalks, on the bare lot side, to keep sediment from washing onto sidewalks and streets and into gutters and storm drains. For installations along sidewalks and behind street curbs, it might not be necessary to stake the fiber rolls, but trenches must still be dug. Fiber rolls placed around storm drains and inlets must be staked into the ground. These rolls should direct the flow of runoff toward a designated drainage area. Place them 1 to 1½ feet back from the storm drain or inlet.

"Maintenance - The maintenance requirements of fiber rolls are minimal, but short-term inspection is recommended to ensure that the rolls remain firmly anchored in place and are not crushed or damaged by equipment traffic (Murphy and Dreher, 1996). Monitor fiber rolls daily during prolonged rain events. Repair or replace split, torn, unraveled, or slumping fiber rolls. Fiber rolls are typically left in place on slopes. If they are removed, collect and dispose of the accumulated sediment. Fill and compact holes, trenches, depressions, or any other ground disturbance to blend with the surrounding landscape." (CalEPA, 2011)

iii. Silt Fence

"Description - Silt fences are used as temporary perimeter controls around sites where construction activities will disturb the soil. They can also be used around the interior of the site. A silt fence consists of a length of filter fabric stretched between anchoring posts spaced at regular intervals along the site at low/down slope areas. The filter fabric should be entrenched in the ground between the support posts. When installed correctly and inspected frequently, silt fences can be an effective barrier to sediment leaving the site in storm water runoff.
"Application - Silt fences apply to construction sites with relatively small drainage areas. They are appropriate in areas where runoff will occur as low-level flow, not exceeding 0.5 cfs. The drainage area for silt fences should not exceed 0.25 acre per 100 feet fence length. The slope length above the fence should not exceed 100 feet (NAHB, 1995). The bottom of the silt fence must be keyed in or water may flow underneath it. A trench should be excavated along the proposed layout line of the fence. After the silt fence stakes have been driven into the trench, backfill over the fence fabric and compact soil.

"Maintenance - Inspect silt fences regularly and frequently, as well as after each rainfall event, to make sure that they are intact and that there are no gaps where the fence meets the ground or tears along the length of the fence. If you find gaps or tears, repair or replace the fabric immediately. Remove accumulated sediments from the fence base when the sediment reaches one-third to one-half the fence height. Remove sediment more frequently if accumulated sediment is creating noticeable strain on the fabric and the fence might fail from a sudden storm event. When you

remove the silt fence, remove the accumulated sediment as well." (CalEPA, 2011)

iv. Hydroseed

"Description - Seeding is used to control runoff and erosion on disturbed areas by establishing perennial vegetative cover from seed. It reduces erosion and sediment loss and provides permanent stabilization. This practice is economical, adaptable to different site conditions, and allows selection of a variety of plant materials.

"Application - Seeding is well-suited in areas where permanent, long-lived vegetative cover is the most practical or most effective method of stabilizing the soil. Use seeding on roughly graded areas that will not be re-graded for at least a year. Vegetation controls erosion by protecting bare soil surfaces from displacement by raindrop impacts and by reducing the velocity and quantity of overland flow. Grasses typically emerge within 4-28 days.

"Maintenance - Maintenance for seeded areas will vary depending on the level of use expected. Use long-lived grass perennials that form a tight sod and are fine leaved for areas that receive extensive use, such as homes, industrial parks, schools, churches, and recreational areas. Whenever possible, choose native species that are adapted to local weather and soil conditions to reduce water and fertilizer inputs and lower maintenance overall. In arid areas, consider seeding with non-grass species that are adapted to drought conditions, called xeriscaping, to reduce the need for watering.

"Low-maintenance areas are mowed infrequently or not at all and do not receive lime or fertilizer regularly. Plants must be able to persist with minimal maintenance over long periods of time. Use grass and legume mixtures for these sites because legumes fix nitrogen from the atmosphere. Sites suitable for low-maintenance vegetation include steep slopes, stream or channel banks, some commercial properties, and "utility" turf areas such as road banks. (CalEPA, 2011)

v. Compost Blanket

"Description - A compost blanket is a layer of loosely applied compost or composted material that is placed on the soil in disturbed areas to control erosion and retain sediment resulting from sheet-flow runoff. It can be used in place of traditional sediment and erosion control tools such as mulch, netting, or chemical stabilization. When properly applied, the erosion control compost forms a blanket that completely covers the ground surface. This blanket prevents storm water erosion by (1) presenting a more permeable surface to the oncoming sheet flow, thus facilitating infiltration; (2) filling in small rills and voids to limit channeled flow; and (3) promoting establishment of vegetation on the surface. Composts used in compost blankets are made from a variety of feedstock, including municipal yard trimmings, food residuals, separated municipal solid waste, bio-solids, and manure. Compost blankets can be placed on any soil surface: rocky, frozen, flat, or steep. The method of application and the depth of the compost applied will vary depending upon slope and site conditions. The compost blanket can be vegetated by incorporating seeds into the compost before it is placed on the disturbed area (recommended method) or the seed can be broadcast onto the surface after installation (Faucette and Risse, 2001).

Application - Compost blankets are most effective when applied on slopes between 4:1 and 1:1, such as stream banks; road embankments; and construction sites, where storm water runoff occurs as sheet flow. Compost blankets are not applicable for locations with concentrated flow. Because the compost is applied to the ground surface and not incorporated into the soil, a compost blanket provides excellent erosion and sediment control on difficult terrain—including steep, rocky slopes. Maintenance - The compost blanket should be checked periodically and after each major rainfall. If

areas of the compost blanket have washed out, another layer of compost should be applied. In some cases, it may be necessary to add another storm water BMP, such as a compost filter sock or silt fence. On slopes greater than 2:1, establishing thick, permanent vegetation as soon as possible is the key to successful erosion and sediment control. Restricting or eliminating pedestrian traffic on such areas is essential (Faucette and Ruhlman, 2004)." (CalEPA, 2011)

vi. Soil Binder

"Description - Chemical stabilizers, also known as soil binders or soil palliatives, provide temporary soil stabilization. Vinyl, asphalt, or rubber is sprayed onto the surface of exposed soils to hold the soil in place and minimize erosion from runoff and wind. These materials are easily applied to the surface of the soil, can stabilize areas where vegetation cannot be established, and provide immediate protection.

"Application - Use chemical stabilizers alone in areas where other methods of stabilization are not effective because of environmental constraints, or use them in combination with vegetative or perimeter practices to enhance erosion and sediment control. Soil binders require a minimum of curing time before becoming fully effective, therefore binders should not be applied during or immediately before rainfall.

"Maintenance – Inspect high traffic areas daily and low traffic areas on a weekly basis during debris removal activities. High traffic areas are those exposed to daily use (vehicle or foot traffic) by contractors or other personnel. Low traffic areas are those available for use but not in a daily manner. If necessary, reapply stabilizer." (CalEPA, 2011)

vii. Dust Suppressant

"Dust control measures apply to any construction site where major soil disturbances or heavy equipment construction activities—such as clearing, excavation, demolition or excessive vehicle traffic—occur. Earthmoving activities, particularly transport of cut and fill materials, are the major source of dust from construction sites (Muleski et al., 2005), but traffic and general disturbances can also be significant contributors (WA Dept. of Ecology, 1992). Dust control measures are especially important in arid or semiarid regions, where soil can become extremely dry and vulnerable to transport by high winds. The most effective dust control measures for a site depend on its topography and land cover, soil characteristics, and expected rainfall.

"The quantity of dust generation and transport depends on the amount of exposed soil. Therefore, when designing a dust control plan, design engineers and construction staff can greatly reduce dust generation by sequencing activities in a way that disturbs only small areas at a time. Construction staff responsible for dust control should determine which practices accommodate their needs according to specific site and weather conditions. The following is a brief list of example control measures and design criteria:

1. Sprinkling/irrigation. Sprinkling the ground surface with water until it is moist is an effective dust control method for most sites, particularly on haul roads and other traffic routes where other dust control methods may not be possible.
2. Vegetative cover. In areas that construction staff do not designate for vehicle traffic, vegetative cover reduces wind velocity at the ground surface, thus reducing the potential for dust to become airborne.
3. Mulch. Mulching can be a quick and effective dust control method for a recently disturbed area.

4. Wind breaks. Wind breaks are barriers (either natural or constructed) that reduce the velocity of wind through a site, thereby reducing the number of particles the wind suspends. Wind breaks can be trees or shrubs that construction staff leave in place during site clearing or constructed barriers such as wind fences, snow fences, tarp curtains, hay bales, crate walls or sediment walls.
5. Tillage. Deep tillage in large open areas brings soil clods to the surface where they rest on top of dust, preventing it from becoming airborne.
6. Stone. Stone can be an effective dust deterrent for construction roads and entrances or serve as mulch in areas that cannot establish vegetation.
7. Chemical soil stabilization (palliatives). There are several different categories of chemical soil treatments: water absorbing, organic non-petroleum, organic petroleum, synthetic polymer emulsion, concentrated liquid stabilizer and clay additive (Jones, 2017). Factors to consider when selecting a chemical application for dust suppression include biodegradability, soil suitability, and impacts to wildlife and environmentally sensitive areas." (EPA NPDES, 2021)

viii. Temporary Sediment Trap

"A temporary sediment or silt trap is formed by excavation or by constructing a small embankment of stone, stone-filled bags, or other material to retain sediment. Sediment traps are considered temporary structures and often placed at the site on an as needed basis by field personnel. They should not be placed in flowing streams.

"Sediment traps pond and settle sediment from muddy runoff. Traps are used where physical site conditions or other restrictions prevent other erosion control measures from adequately controlling erosion and sedimentation. Sediment traps can be used downslope from construction operations that expose areas to erosion.

"Bermed sediment traps confined by rock, rock-filled fiber bags, or other material are preferred over excavated traps or those with soil berms. Traps are placed in converging flow areas (i.e., where ruts or washouts can form) or in ditches, where they are often called ditch checks or check dams. All traps are sized according to a design volume of 3,600 cubic feet per disturbed acre in the upstream drainage area. Multiple sediment traps constructed in a series are needed when the storage volume of each cannot meet this design requirement.

"Sediment traps are generally used to treat a drainage area of 5 acres or less. When the total drainage area to a single structure exceeds 10 acres, an engineered sediment basin is necessary. Traps cannot be placed in blue-line streams or other regulated waters unless space limitations or design limitations provide no other feasible option. A USACE Clean Water Act (CWA) section 404 permit is required in these cases. Sediment traps must be cleaned out before they are half full of sediment.

"The trap must be inspected weekly and after every rainfall greater than one-half inch. Sediment must be removed from the trap before the capacity is reduced to 50 percent of the design volume. Plans for the sediment trap must indicate the methods for disposing of sediment removed from the pond.

"Temporary sediment traps are removed upon stabilization or cover of the upland drainage area with vegetation, pavement, and so on. The trap area should be graded, seeded, and mulched or blanketed. Excess sediment should be spread and stabilized where it will not enter the drainage

system. (Kentucky, 2009)

ix. Dewatering Sediment Filter Bag

"Dewatering is the pumping of stormwater or groundwater from excavation pits or trenches. The sediment-laden water must be pumped to a dewatering structure for sediment removal before it is discharged off-site.

"The purpose of a dewatering device is to remove sediment from the water before it is discharged off-site.

"There are several types of dewatering structures or devices that can be used. A flat, well stabilized, vegetated area can serve as a filtering structure if it can withstand the velocity of the discharged water and infiltrate or assimilate it without erosion. The minimum filter radius or length must be at least 75 feet.

"It is recommended that sediment basins or temporary sediment traps receive sediment laden water from bore pits and trenches. This will ensure that the 80 percent trapping efficiency goal will be upheld. Take special care to ensure that pumping this water does not cause the sediment control structure to fail. Also take care at the outlet of the hose from the pump to ensure that erosion does not occur because of high concentrated flows.

"Another option is to use an infiltration trench—a shallow, excavated trench back-filled with stone—to form a reservoir. This reservoir can contain subsurface drainage pipe or just stone. This trench allows water to filter through the stone and then be diverted to a suitable discharge point. The soils and the depth to the water table must be suitable for this sort of dewatering. Typical trench depths range from 2 to 8 feet. The stone fill material consists of washed aggregate one and one half to three inches in diameter.

"Other methods that can be used include a portable sediment tank, a silt fence pit, or a commercial sediment filter bag or sock. The structure must be sized to allow pumped water to flow through the structure without overtopping.

"Inspect the dewatering structure or device frequently to ensure that it is functioning properly and not overtopping. Accumulated sediment should be spread out on site and stabilized, or disposed of off-site.

"Silt fence enclosures and commercial sediment filters will likely require cleaning to remove fine particles and restore performance. This can be done with a stiff brush when the filter is dry, or via other manufacturer's recommendations." (Kentucky, 2009)

4. Stormwater Pollution Prevention Plan (SWPPP)

Coverage under the Construction General Permit (CGP) is required for all construction projects disturbing greater than one acre of soil. While initial site cleanup will likely not disturb soil, activities such as removing soil contaminated by the burnt or melted construction materials would be considered earth disturbing; unpaved areas utilized as staging / laydown yards will also count towards that one acre. Coverage under the CGP requires development and implementation of a SWPPP, which prescribes site-specific BMPs throughout the cleanup area. If a SWPPP is not developed by the local jurisdiction operating the disaster public assistance cleanup program or providing oversight and/or guidance of the cleanup of properties, it is likely that the site will be

eligible for the Small Construction Rainfall Erosivity Waiver.

Small construction sites between 1 and 5 acres are eligible for a Small Construction Rainfall Erosivity Waiver based on EPA's Stormwater Phase II Final Rule, provided the construction activity will occur only when the rainfall erosivity factor is less than five (SWRCB, 2009). This allows for an extended construction period (from initial earth disturbance to final stabilization) during the dry season (June 15 - October 31) or a ten-day cleanup during the wet season (e.g., January 8 - January 17).

The Small Construction Rainfall Erosivity would not be required if a SWPPP is implemented by the local jurisdiction operating the disaster public assistance cleanup program or providing oversight and/or guidance of the cleanup properties, if the area of soil disturbance is greater than five acres, or if the rainfall erosivity factor for the cleanup period is greater than five.

5. Native Vegetation Stewardship and Restoration

Post-fire conditions should be surveyed by representatives of Environmental Health and Safety to determine the need for rehabilitation or restoration. Because the vegetation in the Hill Campus has adapted to a wide range of wildfire conditions, it is possible no planting would be needed for vegetation to regenerate naturally.

If restoration is required, be advised, local, native genetic material should be used, and include a wide variety of species, tending towards those most likely to persist in drier conditions with more frequent wildfires. These sustainable species are generally hardwoods and shrubs with sprouting capabilities, and native grass. Care must be taken to avoid introducing invasive species. A consulting arborist should be contracted to advise on the proper care or removal of fire affected trees. Hydroseed should be avoided except where recommended by a landscape architect or ecologist.

Post fire activities are not considered a part of this project. The recommended actions are intended to inform how the site should be managed after fire impact, informed by the applicable regulations and best management practices at the time of impact. These largely fall into the categories of:

a) Management of post fire debris and hazardous waste,
b) Management of erosion due to impacted drainage infrastructure on the site and increased runon from offsite, and
c) Stewardship of Native Vegetation.

The following is an excerpt from the LBNL Vegetation Management Guide:

"4.13 Erosion and Sediment Control Vegetation management has the potential to increase soil erosion, thereby increasing the landslide risk, which is particularly important within the context of the steep slopes of the LBNL main Campus. Vegetation cover reduces the impact of rain onto bare soil, overland flow, and may increase soil integrity, thereby reducing soil erosivity. Removal of low level bushes, shrubs, and leaf litter may directly impact erosion by creating disturbed and bare soil areas.

Erosion control, also referred to as soil stabilization, consists of source control measures that prevent soil particles from detaching and becoming transported in stormwater runoff. Erosion control best management practices (BMPs) protect the soil surface by covering and/or binding soil

particles.

Sediment controls are structural measures intended to complement and enhance erosion controls and reduce sediment discharges from active vegetative maintenance areas. Sediment control BMPs are designed to intercept and settle out soil particles that have been detached and transported by the force of water.

Prior to conducting vegetation maintenance activities, LBNL's stormwater subject matter expert (SME) shall be consulted. The stormwater SME reviews proposed work scopes and recommends erosion and sediment control measures. Any selected erosion and sediment control BMPs shall be inspected by the stormwater SME after installation and prior to commencement of the proposed vegetative maintenance scope of work (SOW). The SME also provides weather dependent field inspections to determine BMP effectiveness in reducing or eliminating sediment-related pollutants in stormwater discharges associated with vegetation maintenance activities."

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IX. DESIGN NARRATIVE NOTES

A. PART 3 - LIFE AND SAFETY

1. SECTION L - FIRE DEPARTMENT ACCESS

Fire apparatus access roads are required within 150 feet of all portions of the exterior walls at the 1 st story (CFC Section 503.1.1). This distance can be increased for a building that is provided with an automatic sprinkler system throughout, but needs approval from the fire code official (CFC Section 503.1.1, Exception 1.1.).
Fire access roads are required to be a minimum of 20' in width and 13'6" of clearance (CFC Section 503.2.1).
Fire access roads are required to be all-weather hard-surfaced, unless otherwise approved by the fire official.
Approved signs and/or markings are required to identify the fire apparatus access roads and prohibit the obstruction thereof (CFC Section 503.3)
Dead end fire apparatus access roads are limited to 150 feet in length, unless a turn-around is provided.
Emergency responder radio coverage is required (CFC Section 510.1)

a) PART 10 ELECTRICAL SYSTEMS

i. Site Electrical Utility Service A.

A. The building will be fed from the existing pad mounted 500kVA oil-filled transformer. Transformer is served from the Campus 13.2KV distribution system.
B. Extend feeder from existing switchboard to the main electrical room.

C. All 15KV and 600V distribution shall comply with the Campus Design and Construction Standards.
Ballpark Electrical Distribution
A. The ballpark utility service will consist of a one underground 480V 3 phase, 600 amp feeder from the existing Campus distribution system, located at the northwest corner of Witter Rugby Field to service entrance switchboards located within the main electrical room on the service level.

ii. Emergency Responder Radio System

A. Provide complete Emergency Responder Radio System (ERRS) for the project. Provide separate line item allowance for providing complete materials, labors, and testing of system. B. Provide
1. Provide turnkey Emergency Responder Radio System (ERRS) to provide coverage for emergency responder 2-way radio signals within the entire building, compliant with all adopted codes including, but not be limited to IBC-916, IFC-510 and NFPA-72.
2. Coordinate with building code officials and AHJ on required frequencies to be supported for first responder radios, which may include 150MHz, 450MHz, 700MHz, 800MHz and/or others.
3. Coordinate approved ERRS design requirements with AHJ, including extent of supplemental coverage required based on ambient signal at project site. Provide RF wireless modeling as necessary to determine extent of proposed system which may include the following:
A. Donor antenna(s) mounted to building
B. Active components (bi-directional amplifiers, remote units, etc.)
C. Passive components
D. Power supplies and battery back-up to support active components
E. Fire alarm interface for 24/7 monitoring of system.

iii. Area of Rescue Assistance System

A. Provide complete Area of Rescue Assistance System for the project. Provide separate line item allowance for providing complete materials, labors, and testing of system.
1. Provide turnkey Area of Rescue Assistance System to provide coverage for emergency responder 2-way radio signals within the entire building, compliant with all adopted codes including, but not be limited to IBC-2015, NFPA-72, and ADA. This work shall include, but not limited to, a main control panel, remote control panel, remote call stations, power supply(s), outlet boxes, signage, cables and wiring as specified herein and required for the system. Cabling for two-way communication system shall meet the applicable requirements for pathway survivability (2 hour rating cabling or pathway).
2. The Area of Rescue Assistance System shall include remote dialing that will automatically call an approved off-site monitoring company in the event there is no answer at the main control panel.

APPENDIX D

Lighting Analysis

Cal Softball Field Renovation Project
Lighting Analysis

HLB Lighting Design
30 November 2023

HLB Lighting Design
New York | San Francisco | Los Angeles | Boston | Miami | Denver | Austin

1. Executive Summary

As part of the Cal Softball Field Project, the University of California, Berkeley (UC Berkeley) is proposing to update their existing intercollegiate softball field lighting system that consists of unshielded high-pressure sodium floodlights with a modern LED system featuring improved light quality, increased mounting heights with reduced light trespass, and additional shielding. A series of site measurements and calculations were performed to evaluate the potential impact of the project at representative locations or Receptor Sites in the surrounding area. The results, which were evaluated using metrics quantifying light spill and glare potential at the Receptor Sites, show that the anticipated impact of the lighting upgrade on the Receptor Sites is below the thresholds of significance identified in this report. Therefore, the project is not anticipated to create a new source of substantial light or glare.

2. Introduction

The project site, the Cal Softball Field, is the venue for the Intercollegiate Athletic (IA) Women's Softball Program at the UC Berkeley campus, located in Berkeley, CA. The field is situated along Centennial Drive on the eastern edge of the campus. The field is bounded on the west by the Witter Rugby Field, on the east by the Strawberry Canyon Recreation facility, on the north by the Witter parking lot and Centennial Drive, and on the south by the Cal Adventures Ropes Course and wooded mountainside that is partially developed with single-family residential homes.

The goal of this analysis was to quantify the anticipated impact of the lighting associated with the project and to provide an existing conditions evaluation for context.

3. Receptor Site Identification

Receptor Sites were established as a basis for the comparative analysis. The Receptor Sites were selected to illustrate light spill and glare potential in various directions and elevations in the surrounding area. Figure 1 indicates the receptor sites as they relate to the field location.

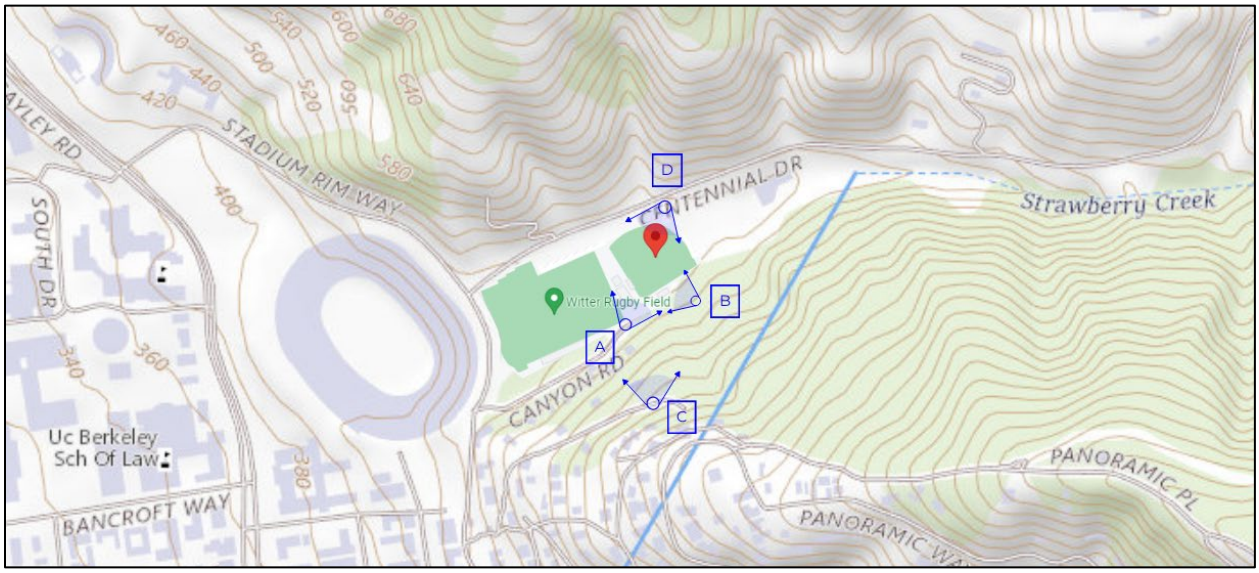

Figure 1: Receptor Site Locations

Figure 2 shows a view of the field from Receptor Site A. As shown, the view is blocked by the existing trees, including trunks, foliage, and signage.



Figure 2: View from Receptor Site A

Figure 3 shows the view of the field from Receptor Site B. As shown, the view is almost entirely blocked by existing trees.


Figure 3: View from Receptor Site B

Figure 5 shows the view from Receptor Site C, which provides a mostly obscured view of the existing field lighting.



Figure 4: View from Receptor Site C

Figure 4 shows the view from Receptor Site D, which provides the most direct view of the existing field lighting.



Figure 5: View from Receptor Site D

4. Metrics and Thresholds of Significance

The metrics associated with lighting impact for this analysis were:

- **Vertical Light Spill** Vertical light spill is used to capture the amount of spill light at a discrete point. Vertical light spill is the illuminance (measured in units of footcandles or lux) falling on a vertical surface, meter, or calculation point, and is used to evaluate the impact of a lighting installation at a discreet location. Vertical spill light is measured using an illuminance meter. For reference, a full moon on a clear night typically produces about 0.01 footcandle (fc).

  Note: Horizontal light spill was not selected as a basis for analysis justified by the significant elevation change of the hillside. As measurements points rise in elevation relative to the studied light source, the angle of incoming light (incidence) increases, which results in the measured horizontal light decreasing solely due to the geometric relationships associated with illuminance calculations and measurement. Therefore, horizontal spill light would not be considered an appropriate basis for analysis and measurement.

Threshold of Significance Based on a review of local, county, and state regulations in addition to national and international lighting standards, it was determined that the appropriate source for the establishment of the threshold of significance is CIE 150:2017 "GUIDE ON THE LIMITATION OF THE EFFECTS OF OBTRUSIVE LIGHT FROM OUTDOOR LIGHTING INSTALLATIONS, 2ND EDITION"[1]. Using the framework within the standard for the criteria for "Environmental Zone 2" which is defined as areas of "Low District Brightness / Rural Residential", the pre-curfew "in-use" threshold of significance for vertical spill light is 0.46 fc (5 lux). See Section 13 below for reference tables from CIE 150:2017.

- **Maximum Intensity** Maximum intensity is used to capture the apparent brightness of a light source as viewed from a distance. Maximum intensity, measured in units of candela, is used to evaluate the glare potential of a lighting installation. Maximum intensity is measured using a two-part method, combining luminance measurements taken with a meter with high-dynamic range photography analysis (see description of this analysis under Section 5, Methodology). Maximum intensity in units of candela is used throughout this analysis interchangeably with luminance in units of candela per square meter per industry standards as the viewing distances are more than 5x the largest dimension of the luminaire.

  Threshold of Significance Based on a review of local, county, and state regulations in addition to national and international lighting standards, it was determined that the appropriate source for the establishment of the threshold of significance is EN 12913:2007 "Light and lighting – Sports lighting"[2]. Using the framework within the standard for the criteria for "Environmental Zone 2", the pre-curfew "in-use" threshold of significance for maximum intensity is 7,500 cd. See section 13 below for reference tables from BS EN 12913:2007.

Skyglow metrics were not considered for this analysis as they fall outside of CEQA considerations.

5. Methodology

To determine the potential impact of the project, a three-part measurement was performed. First, various measurements were taken to quantify the existing lighting conditions. The three measurement conditions were:

- Existing lighting at softball and rugby "On"
- Existing lighting at only rugby "On"
- Existing lighting at both softball and rugby "Off" (Ambient Light)

The difference in measured spill light between the "on" and "off" conditions allowed the determination of the Vertical Light Spill directly attributable to each individual existing sports lighting system.

Images were also taken at each receptor site under the softball and rugby "On" condition to be used for the High Dynamic Range (HDR) image analysis to understand maximum intensity. HDR analysis involves the capture of digital photographs bracketing at a minimum +/- 2 Exposure Values (EV) and using measured luminance values to calibrate the digitally combined images to provide pixel-by-pixel luminance mapping.

Second, a photometric model of the existing softball lighting was created based on existing sports light fixture information and field geometry. Calculation points were placed across the field surface and used to calibrate the model

[1] 2017. International Commission on Illumination (CIE) 150 "GUIDE ON THE LIMITATION OF THE EFFECTS OF OBTRUSTIVE LIGHT FROM OUTDOOR LIGHITNG INSTALLATIONS, 2ND EDITION."
[2] 2007. British Standard (BS EN) 12913 "Light and lighting – Sports lighting."

to the existing conditions. Calculation points were added in the model at the locations of the receptor sites to calculate the anticipated Vertical Light Spill and Maximum Intensity with a direct, unobscured view between the points and the lighting. These values were then used to calculate the difference in spill light between the measured and modeled conditions which allowed for the blocking effect of the dense canopy to be quantified.

Finally, an analysis of the project was performed by the manufacturer engaged by the University which included providing photometric studies to calculate the anticipated Vertical Light Spill and Maximum Intensity of the proposed lighting system at the same Receptor Site Locations. These values were then compared against the existing lighting system conditions, accounting for the effective reduction due to vegetation.

6. Site Visit and Measurement Results

Two site visits were conducted by HLB Lighting Design.

The first visit to measure existing conditions at the rugby field was conducted on Monday, August 22, 2022. At the time of the measurements the temperature was 71°F, with 61% humidity and clear skies. Sunset time was 7:52pm Pacific Daylight Time. The existing rugby field lighting for both softball and rugby was turned “on” at 9:30pm to allow the lights to stabilize output. Measurements of the existing lighting conditions began at 9:43pm. After measurements were complete, the lighting was extinguished. Measurements were repeated at the receptor sites with the existing softball and rugby field lights off beginning at 10:34pm and were concluded by 11:26pm.

The second visit to measure existing conditions at the softball field was conducted on Thursday, March 16, 2023. At the time of the measurements, the temperature was 50°F, with 71% humidity and clear skies. Sunset time was 7:17pm Pacific Daylight Time. The existing field lighting for both softball and rugby was turned “on” already, noting that the observed time was 4:49pm Pacific Daylight Time. Measurements of the existing lighting conditions began at 8:33pm Pacific Daylight Time and were concluded before 10:00 pm. Measurements included Vertical Spill Light and Maximum Intensity at each receptor site, in addition to survey points across the softball field at strategic locations to enable calibration of the photometric model.

The existing softball field lighting is composed of four light standards with clusters of unshielded high pressure sodium floodlights. See Figure 6 for the location of the light standards.



Figure 6: Existing Light Standards

Standards 1A and 2A, located in the infield, have four luminaires per cluster. Standards 1B and 2B, located in the outfield along the baselines, have eight luminaires per cluster.

All luminance and illuminance measurements were taken using a Sekonic L-758 light meter with a low-end range limit of 0.06 fc. All photographs were taken using a Canon EOS Rebel T6i with an 18-55mm IS SM lens kit. A tripod was used to allow photographs to be taken at approximately 5’-6” above grade to approximate standard viewer eye height. The

camera had a 24.2 megapixel CMOS sensor and fully manual modes, including manual focus. Meters and images were taken facing the softball field, as indicated by the range of view information shown Figure 1.

Table 1 captures the measured vertical spill light results. As shown, the conditions at Receptor Site C were so dark that the illuminance was below the sensitivity of the light meter. Additionally, the spill light at Receptor Site B fell below the threshold of sensitivity of the light meter once the existing softball lighting was extinguished.

Vertical Spill Light, [fc]

Receptor Site	Softball + Rugby + Ambient	Rugby + Ambient	Ambient Only	Softball Only [derived]	Rugby Only [derived]
A	0.56	0.23	0.20	0.33	0.03
B	0.11	< 0.06	< 0.06	0.11	< 0.06
C	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
D	0.56	0.10	0.06	0.46	0.04

Table 1: Existing Vertical Spill Light

For the Maximum Intensity measurements, Receptor Site C has no direct view of the existing field through the dense existing canopy obscuring the view of the canyon floor, and therefore the maximum intensity metric is not applicable since the observable intensities are below the threshold of the meter. Through the compiled and calibrated HDR images, Figure 7, Figure 8 and Figure 9 provide the calibrated intensity view in pseudocolor for Receptor Sites A, B and D, respectively. Table 2 provides the maximum intensity extracted from the calibrated images.

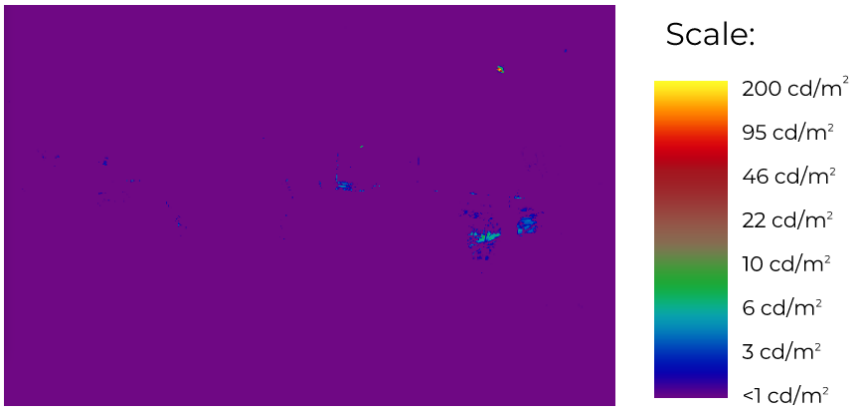

Figure 7: Maximum Intensity at Receptor Site A

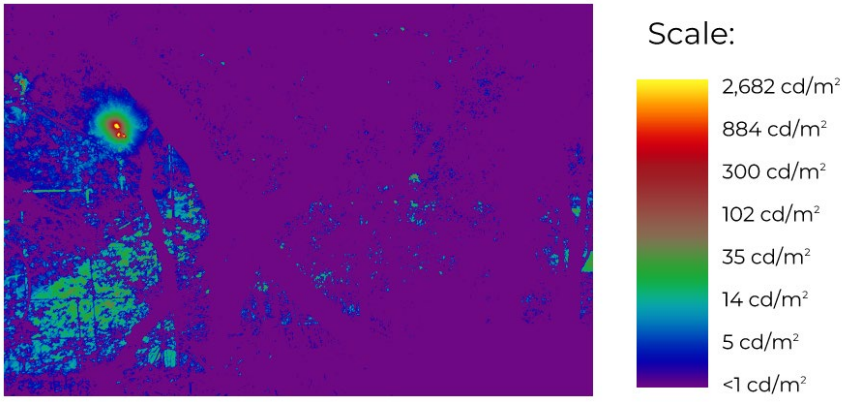

Figure 8: Maximum Intensity Analysis at Receptor Site B

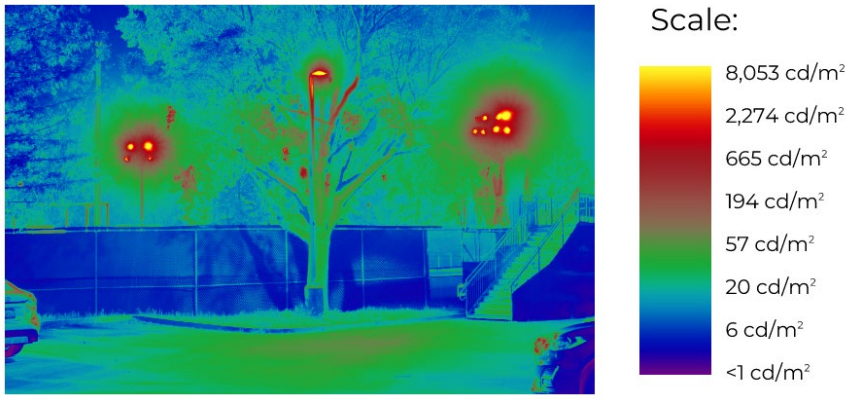

Figure 9: Maximum Intensity Analysis at Receptor Site D

Maximum Intensity, [cd]

Receptor Site	Existing Lights On
A	200
B	2,682
C	No direct view
D	8,053

Table 2: Existing Maximum Intensity

It is important to note that the high density of existing foliage to the south of the site created significant visual obstruction. This led to mostly obscured direct views of the existing lighting and obscured views of the illuminated field surfaces.

7. Quantifying Existing Conditions

As noted above, the existing protected foliage along the slope provides significant obstruction of the field lighting. Specifically, the high, dense tree canopy and significant opaque trunk density provides for significant obstruction of light onto the Receptor Sites. Given that the measurement points are 5'-6" above grade, low ground cover and foliage had no impact on the measurements.

To determine the amount of light anticipated at each receptor site that makes it through the dense foliage, a simulation of the existing softball lighting was created using industry-standard photometric software (AGI32). A model was generated matching existing site geometry and lighting conditions. The simulation was tuned to match existing conditions as closely as possible using the surveyed on-field light level measurements to adjust aiming and depreciation factors. Table 3 summarizes the findings.

Note that an exact match between surveyed and measured results is virtually unachievable due to a number of site-specific variations, including minor differences in aiming, surface depreciation of the fixture components due to environmental exposure over the life of the system causing variations in light distribution, and minor variation in measurement vs surveyed point locations.

The effective reduction factor then indicates the amount of light anticipated at a receptor site that makes it through the dense foliage.

Vertical Spill Light, [fc]

Receptor Site	Actual Light from Existing	Simulated Light	Percentage of Light Reaching Receptor Site
A	0.33	0.20	100%
B	0.11	0.80	13.75%
C	< 0.06	0.00	n/a
D	0.46	11.00	4.18%

Table 3: Calculation of Effect of Existing Conditions (Percentage Reaching Receptor Site = Actual/Simulated)

8. Project Simulation Results

The manufacturer, engaged by the University to provide the design for the proposed lighting project, provided a set of preliminary simulation results received 21 November 2022. The simulation results were coordinated to provide the same two metrics – Vertical Spill Light and Maximum Intensity – at the same receptor sites. Table 4 summarizes the preliminary Vertical Spill Light calculations and Table 5 summarizes the Maximum Intensity calculations. Note that the simulation accounts for the variations in height due to the steeply-sloped terrain. However, the simulation does not (and cannot) account for the significant obstruction due to the observed dense foliage.

The manufacturer was asked by the University to optimize the lighting through aiming adjustment, pole location adjustment and luminaire height optimization to minimize vertical spill light and maximum intensity while maintaining appropriate lighting in support of NCAA standards and player safety. Based on that optimized design received 31 May 2023, Table 4 and Table 5 also provide the optimized values, indicating an overall reduction in vertical spill lighting and maximum intensity.

Unobstructed Vertical Spill Light, [fc]

Receptor Site	Preliminary Lighting Simulation (no obstruction)	Optimized Lighting Simulation (no obstruction)
A	0.32	0.15
B	1.01	0.37
C	0.04	0.03
D	0.27	0.33

Table 4: Preliminary and Optimized Unobstructed Simulated Vertical Spill Light for Proposed Lighting

Unobstructed Maximum Intensity, [cd]

Receptor Site	Preliminary Lighting Simulation (no obstruction)	Optimized Lighting Simulation (no obstruction)
A	13,624	4,594
B	18,154	6,711
C	3,775	5,104
D	1,489	4,724

Table 5: Preliminary and Optimized Unobstructed Simulated Maximum Intensity for Proposed Lighting

Through the optimization effort, the manufacturer was able to provide a significant reduction in the overall lighting impact, despite increases at various sites, without compromising the playability and safety of the field.

9. Accounting for Existing Conditions with Project Simulation Results

As demonstrated above, the existing dense tree canopy and foliage provides significant blocking, reducing the direct view of the field lighting and the resultant vertical spill light and maximum intensity. Therefore, it is important to apply the determined Reduction Factor from Table 3 to the manufacturer's simulated results to provide a more accurate

assessment of the projected impact of the project. Tables Table 6 and Table 7 summarize the resultant lighting impact of the project.

Vertical Spill Light, [fc]

Receptor Site	Optimized Lighting Simulation (no obstruction)	Percentage of Light Reaching Receptor Site	Optimized Lighting Simulation Including Obstruction
A	0.15	100%	0.15
B	0.37	13.75%	0.05
C	0.03	n/a	0.03
D	0.33	4.18%	0.01

Table 6: Optimized Unobstructed and Obstructed Vertical Spill Light

Maximum Intensity, [cd/m^2]

Receptor Site	Optimized Lighting Simulation (no obstruction)	Percentage of Light Reaching Receptor Site	Optimized Lighting Simulation Including Obstruction
A	4,594	100%	4,594
B	6,711	13.75%	923
C	5,104	n/a	5,104
D	4,724	4.18%	198

Table 7: Optimized Unobstructed and Obstructed Maximum Intensity

Note: For Receptor Site C, no spill light was measurable or calculated for existing conditions and therefore there can be no reasonable assumption of light reduction due to existing conditions.

10. Impact of Aiming Angle and Geometry

The proposed system includes upgraded, modern LED luminaires with high color-rendering matching current industry standards. Modern LED fixtures are able to provide tighter beam control, allowing significantly less light to escape the main beam of light into what is referred to as the field of light. The proposed lighting standards (poles) are taller than existing, with sports lighting proposed to be at mounting heights of approximately 70’ to 90’ above grade, allowing fixtures to be aimed downward toward the field.

The combination of more focused light sources with the higher poles is anticipated to result in improved control of the overall light, resulting in less potential for light scatter, less light trespass, and less brightening of the canyon walls than the existing system.

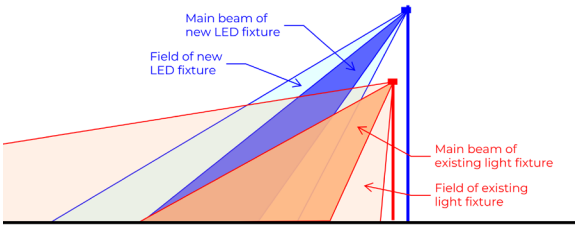

Figure 10: Diagrammatic representation of the impact of increased pole height coupled with improved optical control

11. Comparison

Table 8 provides a comparison of the existing measured vertical spill light to the new simulated vertical spill light. This calculation takes into account the background “Ambient” which is light measured at the receptor sites with all sports lighting off, mostly due to houses, street lighting, skyglow, light from the roadways/parking lots, and all other existing

light sources. This table also reports the anticipated light levels due to the project in context of the ambient light, as well as the anticipated light levels when accounting for the existing rugby field lighting.

As shown, Vertical Spill Light at Receptor Sites A and D are anticipated to be significantly reduced with the proposed system. Anticipated spill light values are below the Threshold of Significance both with and without the blocking effect of the existing foliage taken into account.

Receptor Site	Ambient + Existing Softball + Existing Rugby	Ambient + Existing Softball	Ambient + Anticipated Softball (No Obstruction)	Ambient + Anticipated Softball (With Obstruction)	Threshold of Significance	Ambient + Existing Rugby + Anticipated Softball (With Obstruction)
A	0.56 fc	0.53 fc	**0.35 fc**	**0.35 fc**	0.46 fc	**0.38 fc**
B	**0.11 fc**	**< 0.11 fc**	**< 0.43 fc**	**< 0.11 fc**		**< 0.11 fc**
C	**< 0.06 fc**	**<0.06 fc**	**< 0.06 fc**	**< 0.06 fc**		**< 0.06 fc**
D	0.56 fc	0.52 fc	**0.39 fc**	**0.07 fc**		**0.11 fc**

Table 8: Comparison of Existing to Anticipated Vertical Light Spill – Note values bolded fall below the Threshold of Significance

Table 9 provides a comparison of the existing measured maximum intensity to the new simulated maximum intensity. The glare potential at Receptor Site A is anticipated to increase and the glare potential at Receptor Sites B and D are anticipated to decrease. For Receptor Site C, though the taller proposed lights associated with the project are anticipated to be visible, the optimized aiming of the luminaires is anticipated to result in no direct view of the fixtures. Anticipated maximum intensity values are below the Threshold of Significance. Note that Maximum Intensity is not additive, it is a value associated with views of specific light sources, and therefore additional scenarios incorporating rugby lighting are not applicable.

Receptor Site	Ambient + Existing Softball	Ambient + Anticipated Softball	Threshold of Significance
A	**200 cd**	**4,594 cd**	7,500 cd
B	**2,682 cd**	**923 cd**	
C	**No direct view**	**5,104 cd**	
D	8,053 cd	**198 cd**	

Table 9: Comparison of Existing to Anticipated Maximum Intensity - Note values bolded fall below the Threshold of Significance

12. Glossary

Beam Angle: The beam angle measures a light source's intensity until it has fallen to 50% of maximum.

Candela: The photometric unit for quantifying light intensity in a particular direction. Abbreviated "cd". Throughout this report, note that units of intensity are used interchangeably with units of luminance due to large viewing distances. See "Luminance" below.

Depreciation Factors: Proportional reductions in light output applied to simulated lighting to account for source degradation and dirt build-up over time.

Field Angle: The field angle measures a light source's intensity until it has fallen to 10% of maximum.

Glare: The perceived brightness of a light source, influenced by many factors including photometric output, fixture geometry, color of light, personal sensitivity, and environmental conditions.

Glare Potential: For the purpose of this analysis, glare potential is analyzed using brightness (luminance) and candela (intensity) measurements interchangeably.

High Dynamic Range (HDR): An industry-standard methodology for capturing luminance values in a distinct field of view through the combined use of digital photography, field measurements, and analysis software.

Illuminance: The amount of light incident on a surface. Measured in imperial units of foot-candles (abbreviated “fc”) or metric units of lux. 1 fc = 10.76 lux.

Light Spill: Light falling onto a surface outside of the designated property. Can be horizontal, vertical, or on a tilted surface.

Luminance: The photometric unit for brightness. Typically reported in metric units of “cd/m2”. As noted above, used interchangeably with intensity throughout this report to assess glare potential.

Photometric: The calculation of light.

Pre-curfew: Time before 10:00pm, which is the current curfew time at which the sports lighting must be extinguished.

Pseudocolor: The use of a color scale to provide visual data mapping.

Skyglow: The artificial brightening of the sky from terrestrial light sources that reduces the visibility of celestial objects.

13. Reference Tables

Excerpt from CIE 150:2017 “GUIDE ON THE LIMITATION OF THE EFFECTS OF OBTRUSIVE LIGHT FROM OUTDOOR LIGHTING INSTALLATIONS, 2ND EDITION”

3.6.4 Basis for differentiation of limits according to area type

The limits given in 3.6.5 are differentiated according to the environmental zone. The differentiation takes account of the ambient brightness of the environment to be experienced. The environmental zones are defined in Table 1.

Table 1 – Environmental lighting zones

Zone	Lighting Environment	Examples
E0	Intrinsically dark	UNESCO Starlight Reserves, IDA Dark Sky Parks, Major optical observatories
E1	Dark	Relatively uninhabited rural areas
E2	Low district brightness	Sparsely inhabited rural areas
E3	Medium district brightness	Well inhabited rural and urban settlements
E4	High district brightness	Town and city centres and other commercial areas
NOTE Regardless of the level of urban development, the recommendations for Environmental Zone 1 or 0, should be followed for all locations within 100 km of a major optical astronomy observatory. Regardless of the level of urban development, the recommendations for Environmental Zone 2 (or better) should be followed for locations within 30 km of an operating urban optical astronomy observatory, and for locations between 100 km and 300 km from a major optical astronomy observatory.		

3.6.5 Recommended maximum values of light technical parameters for the control of obtrusive light

3.6.5.1 Limitation of illumination on surrounding properties (light intrusion)

Table 2 shows maximum values of vertical illuminance on properties. Limits apply to nearby dwellings, or potential dwellings, more specifically to their relevant surfaces or parts of surfaces, especially where windows are. The values consider the summation of all lighting installations.

Table 2 – Maximum values of vertical illuminance on properties

Light Technical Parameter	Application Conditions	Environmental Zones				
		E0	E1	E2	E3	E4
Illuminance in vertical plane (E_v)	Pre-curfew	n/a	2 lx	5 lx	10 lx	25 lx
	Post-curfew	n/a	< 0,1 lx*	1 lx	2 lx	5 lx
* If the installation is for public (road) lighting then this value may be up to 1 lx.						

3.6.5.2 Limitation of bright luminaires in the field of view

The limits for the luminous intensity of bright luminaires are dependent on the viewing distance, d, (between observer and the bright luminaire) and the projected area, A_p, of the bright part of the luminaire in direction to the observer. Table 3 shows the maximum values for the luminous intensity of luminaires in designated directions where views of bright surfaces of luminaires are likely to be troublesome to residents or, from positions where such views are likely to be maintained, i.e. not where momentary or short-term viewing is involved.

Excerpt from EN 12193-007 “Light and lighting – Sports lighting”

L_{ve} is the equivalent veiling luminance of the environment in cd m^{-2}. From the assumption that the reflection of the environment is totally diffuse, the equivalent veiling reflection from the environment may be calculated as $L_{ve} = 0{,}035.\rho.E_{hav}.\pi^{-1}$, in which ρ represents the average reflectance and E_{hav} the average illuminance of the area.

5.9 Surface colours and reflection properties

Surface colours shall be chosen taking into account the usual tasks involved in the intended activities including knowledge of the colours of objects to be viewed against the background in question.

NOTE These surfaces should be matt to avoid glare due to the reflection of bright sources.

5.10 Obtrusive light

To safeguard and enhance the night time environment it is necessary to control obtrusive light, which can present physiological and ecological problems to surroundings and people.

The limits of obtrusive light for exterior lighting installations, to minimise problems for people are given in Table 1 and for road users in Table 2.

Table 1 – Maximum obtrusive light permitted for exterior lighting installations

Environmental zone	Light on properties		Luminaire intensity		Upward light
	E_v lx		I cd		ULR
	Pre-curfew[a]	Post-curfew	Pre-curfew	Post-curfew	%
E1	2	0	2 500	0	0
E2	5	1	7 500	500	5
E3	10	2	10 000	1 000	15
E4	25	5	25 000	2 500	25

[a] In case no curfew regulations are available, the higher values shall not be exceeded and the lower values should be taken as preferable limits.

E1 represents intrinsically dark areas, such as national parks or protected sites;

E2 represents low district brightness areas, such as industrial or residential rural areas;

E3 represents medium district brightness areas, such as industrial or residential suburbs;

E4 represents high district brightness areas, such as town centres and commercial areas;

E_v is the maximum value of vertical illuminance on properties in lx;

I is the light intensity of each source in the potentially obtrusive direction in cd;

ULR is the proportion of the flux of the luminaire(s) that is emitted above the horizontal, when the luminaire(s) is (are) mounted in its (their) installed position and attitude.

14. Manufacturer Simulation Results

Provided courtesy of Musco Lighting

Levine-Fricke Softball Stadium

Berkeley,CA

Lighting System

Pole / Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	4	TLC-LED-1500	5.64 kW	A
		70'	4	TLC-RGBW	2.56 kW	B
		16'	2	TLC-BT-575	1.15 kW	A
B1	60'	60'	2	TLC-LED-1200	2.34 kW	A
		60'	6	TLC-LED-1500	8.46 kW	A
		60'	2	TLC-LED-1500	2.86 kW	D
		60'	3	TLC-RGBW	1.92 kW	B
		16'	3	TLC-BT-575	1.73 kW	A
B2	60'	60'	2	TLC-LED-1200	2.34 kW	C
		60'	2	TLC-LED-1200	2.34 kW	A
		60'	6	TLC-LED-1500	8.46 kW	A
		60'	3	TLC-RGBW	1.92 kW	B
		16'	3	TLC-BT-575	1.73 kW	A
C1-C2	70'	70'	1	TLC-LED-1200	1.17 kW	A
		70'	4	TLC-LED-1500	5.64 kW	A
		11'	2	TLC-BT-575	1.15 kW	A
6			***66***		***68.71 kW***	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Softball	54.55 kW	48
B	Egress	8.96 kW	14
C	RF Bull pen	2.34 kW	2
D	LF Bullpen	2.86 kW	2

Fixture Type Summary

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 80 CRI	1410W	166,520	>120,000	>120,000	>120,000	28
TLC-LED-1500	LED 5700K - 80 CRI	1430W	147,200	>120,000	>120,000	>120,000	2
TLC-LED-1200	LED 5700K - 80 CRI	1170W	138,000	>120,000	>120,000	>120,000	8
TLC-RGBW	LED 5700K - 80 CRI	640W	26,220	>120,000	>120,000	>120,000	14
TLC-BT-575	LED 5700K - 80 CRI	575W	47,840	>120,000	>120,000	>120,000	14

Single Luminaire Amperage Draw Chart

Driver (.90 min power factor)	Max Line Amperage Per Luminaire						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	1.9	1.9
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
A	Arbitrary Illuminance	0.62	0.60	0.60	1.00	1.03	A,B,C,D	66
A	Max Candela (by Fixture)	0	0	0	0.00		A,B,C,D	66
Blanket Grid	Horizontal Illuminance	18.3	0	63.8	108325.00		A,B,C,D	66
B	Arbitrary Illuminance	2.17	2.20	2.20	1.00	0.99	A,B,C,D	66
B	Max Candela (by Fixture)	0	0	0	0.00		A,B,C,D	66
C	Arbitrary Illuminance	0.11	0.10	0.10	1.00	1.10	A,B,C,D	66
C	Max Candela (by Fixture)	0	0	0	0.00		A,B,C,D	66
D	Arbitrary Illuminance	2.49	2.50	2.50	1.00	1.00	A,B,C,D	66
D	Max Candela (by Fixture)	0	0	0	0.00		A,B,C,D	66
Egress	Horizontal Illuminance	15.3	0	26.9	0.00		B	14
LF Bullpen	Horizontal Illuminance	59.5	45.8	69.2	1.51	1.30	D	2
RF Bullpen	Horizontal Illuminance	52.6	0.80	74.3	93.92	65.69	C	2

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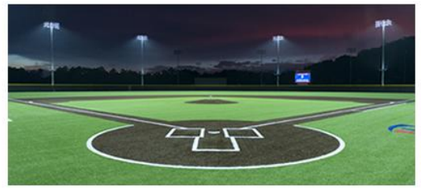
From Hometown to Professional









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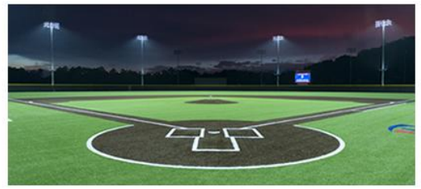
Levine-Fricke Softball Stadium

Berkeley,CA

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Seating	Horizontal Illuminance	69.8	2.60	125	47.51	26.83	A,B	62
Softball Spill 150'	Horizontal Illuminance	0.17	0.02	0.74	34.87	8.23	A,B,C,D	66
Softball Spill 150'	Max Candela Metric	0	0	0	0.00		A,B,C,D	66
Softball Spill 150'	Max Vertical Illuminance Metric	0	0	0	0.00		A,B,C,D	66
Softball (Infield)	1st Base	77.3	27.8	124	4.46	2.78	A,C,D	52
Softball (Infield)	3rd Base	75.9	27.9	123	4.40	2.72	A,C,D	52
Softball (Infield)	High Home	93.5	54.9	136	2.48	1.70	A,C,D	52
Softball (Infield)	Horizontal Illuminance	125	104	140	1.35	1.20	A,C,D	52
Softball (Outfield)	1st Base	46.9	14.1	108	7.64	3.32	A,C,D	52
Softball (Outfield)	3rd Base	46	13.3	108	8.08	3.46	A,C,D	52
Softball (Outfield)	High Home	56.6	35.1	100	2.86	1.61	A,C,D	52
Softball (Outfield)	Horizontal Illuminance	79.2	65.4	114	1.75	1.21	A,C,D	52

From Hometown to Professional









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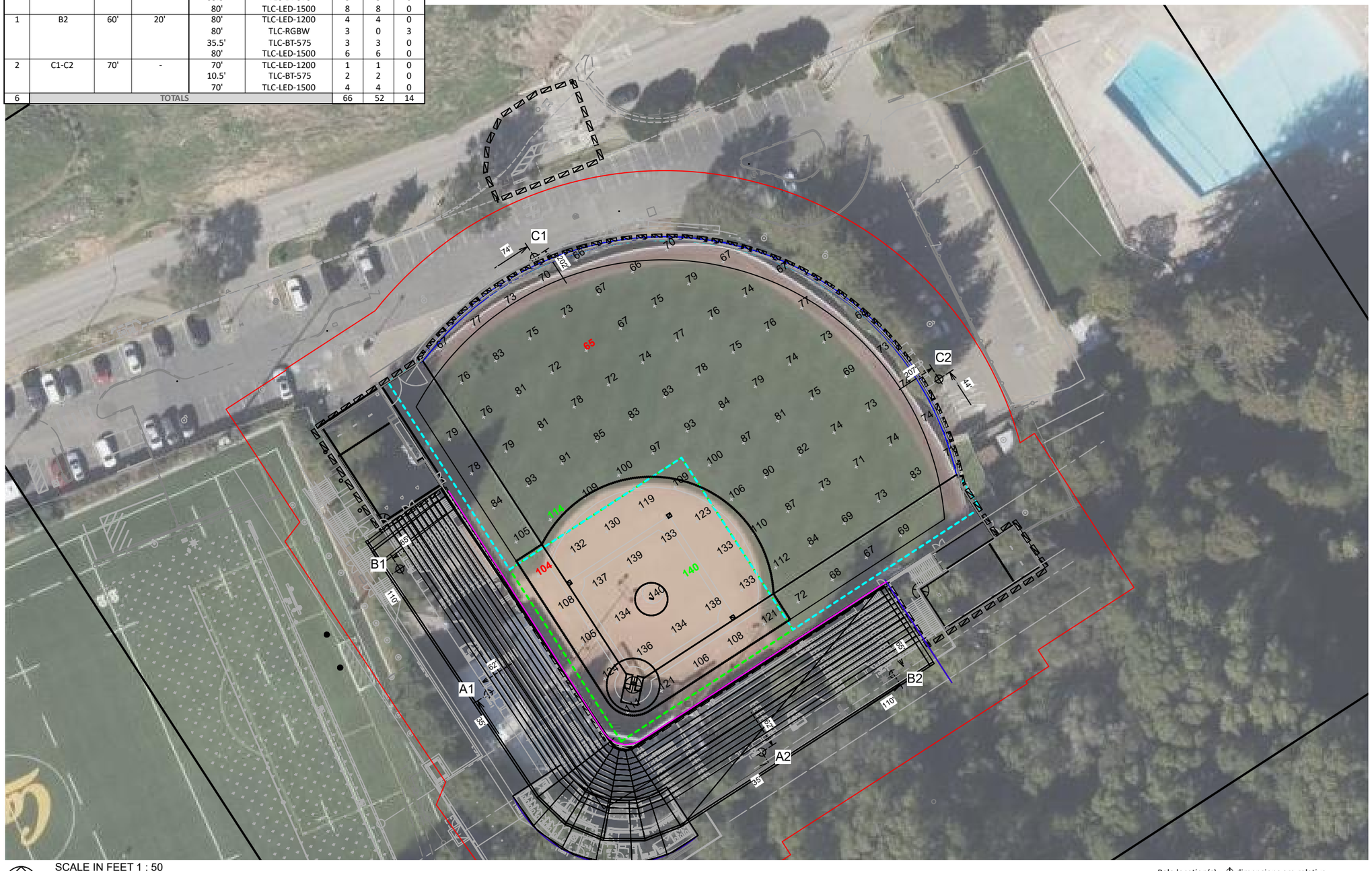
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	0	4
				35.5'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	-	70'	TLC-LED-1200	1	1	0
				10.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	52	14



SCALE IN FEET 1 : 50

0' 50' 100'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Softball**
Size:	190'/220'/190' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Infield	Outfield
Guaranteed Average:	**100**	**70**
Scan Average:	124.79	79.24
Maximum:	140.1	114.4
Minimum:	104.1	65.4
Avg / Min:	1.20	1.21
Guaranteed Max / Min:	**1.5**	**2**
Max / Min:	1.35	1.75
UG (adjacent pts):	1.28	1.57
CU:	0.49	
No. of Points:	25	80

LUMINAIRE INFORMATION

Applied Circuits:	A, C, D
No. of Luminaires:	**52**
Total Load:	59.75 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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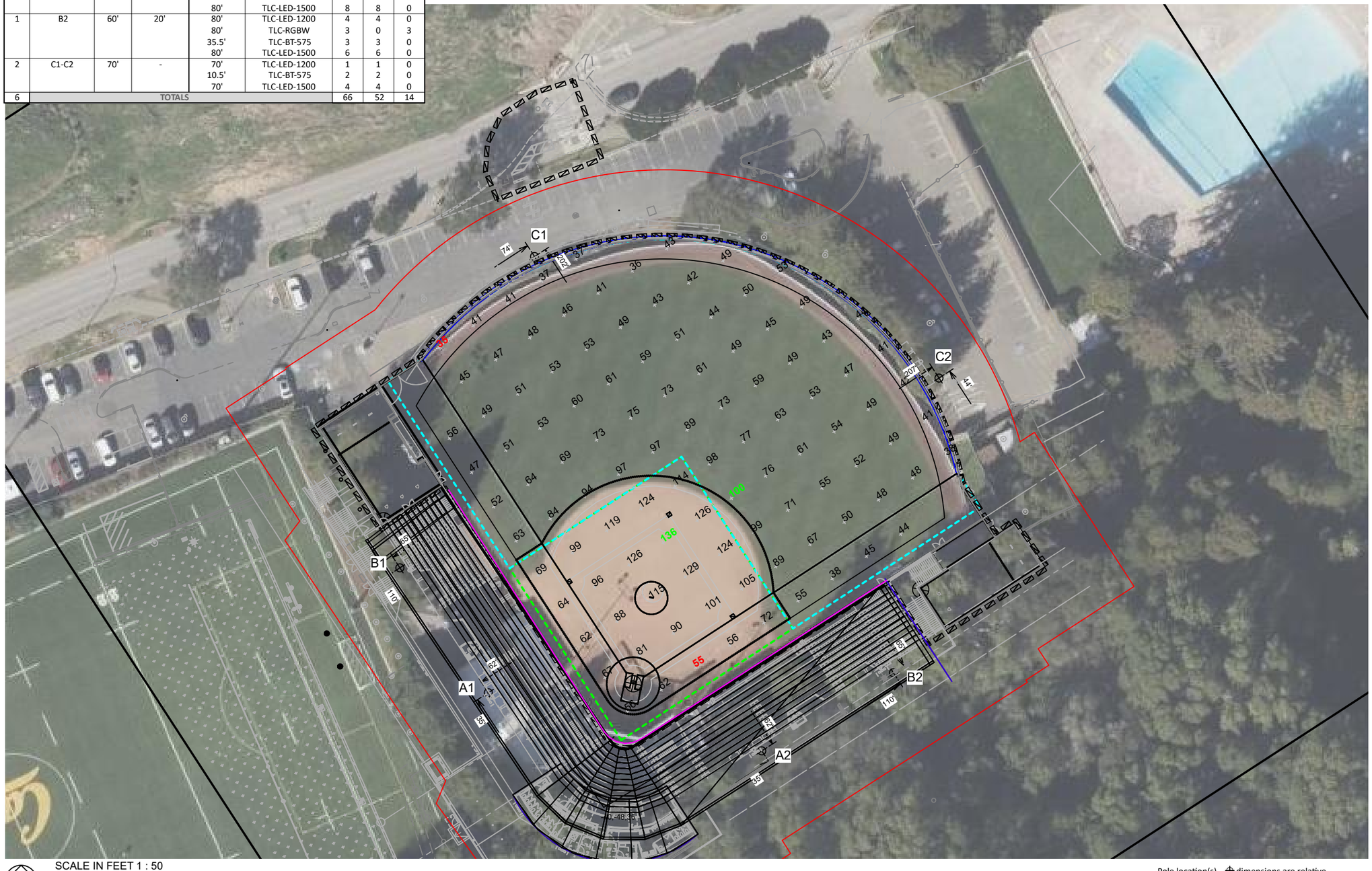
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	0	4
				35.5'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	-	70'	TLC-LED-1200	1	1	0
				10.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	52	14



SCALE IN FEET 1 : 50

0' 50' 100'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Softball**
Size:	190'/220'/190' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED TV FOOTCANDLES: High Home

	Infield	Outfield
Guaranteed Average:	**70**	**40**
Scan Average:	93.47	56.55
Maximum:	136.3	100.3
Minimum:	54.9	35.1
Avg / Min:	1.70	1.61
Max / Min:	**2.48**	**2.86**
UG (adjacent pts):	1.81	1.76
CU:	0.49	
No. of Points:	25	80

LUMINAIRE INFORMATION

Applied Circuits:	A, C, D
No. of Luminaires:	**52**
Total Load:	59.75 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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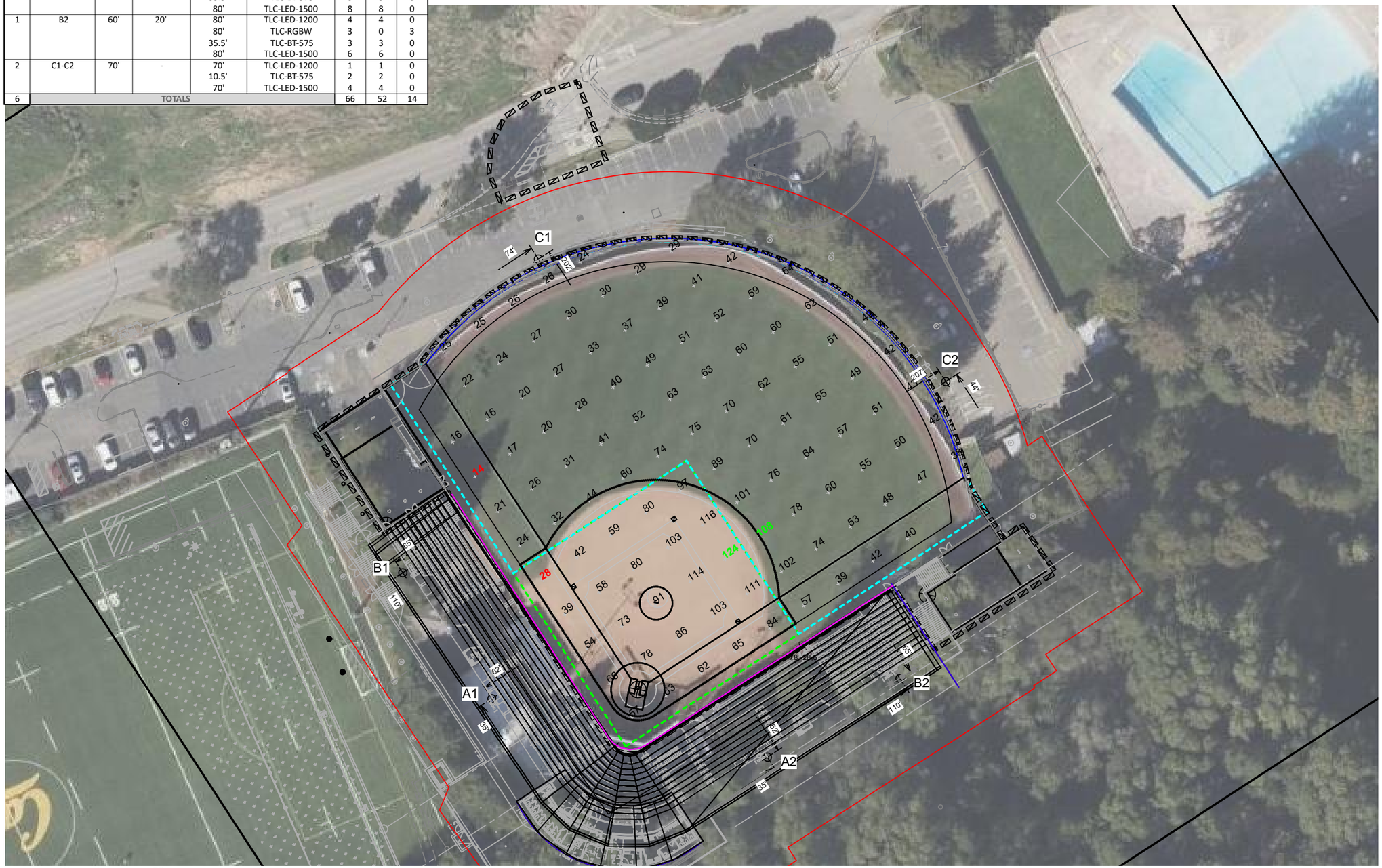
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	0	4
				35.5'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	-	70'	TLC-LED-1200	1	1	0
				10.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	52	14



Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Softball**
Size:	190'/220'/190' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED TV FOOTCANDLES: 1st Base

	Infield	Outfield
Guaranteed Average:	**70**	**40**
Scan Average:	77.30	46.85
Maximum:	123.9	107.8
Minimum:	27.8	14.1
Avg / Min:	2.78	3.32
Max / Min:	**4.46**	**7.64**
UG (adjacent pts):	1.57	1.89
CU:	0.49	
No. of Points:	25	80

LUMINAIRE INFORMATION

Applied Circuits:	A, C, D
No. of Luminaires:	**52**
Total Load:	59.75 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

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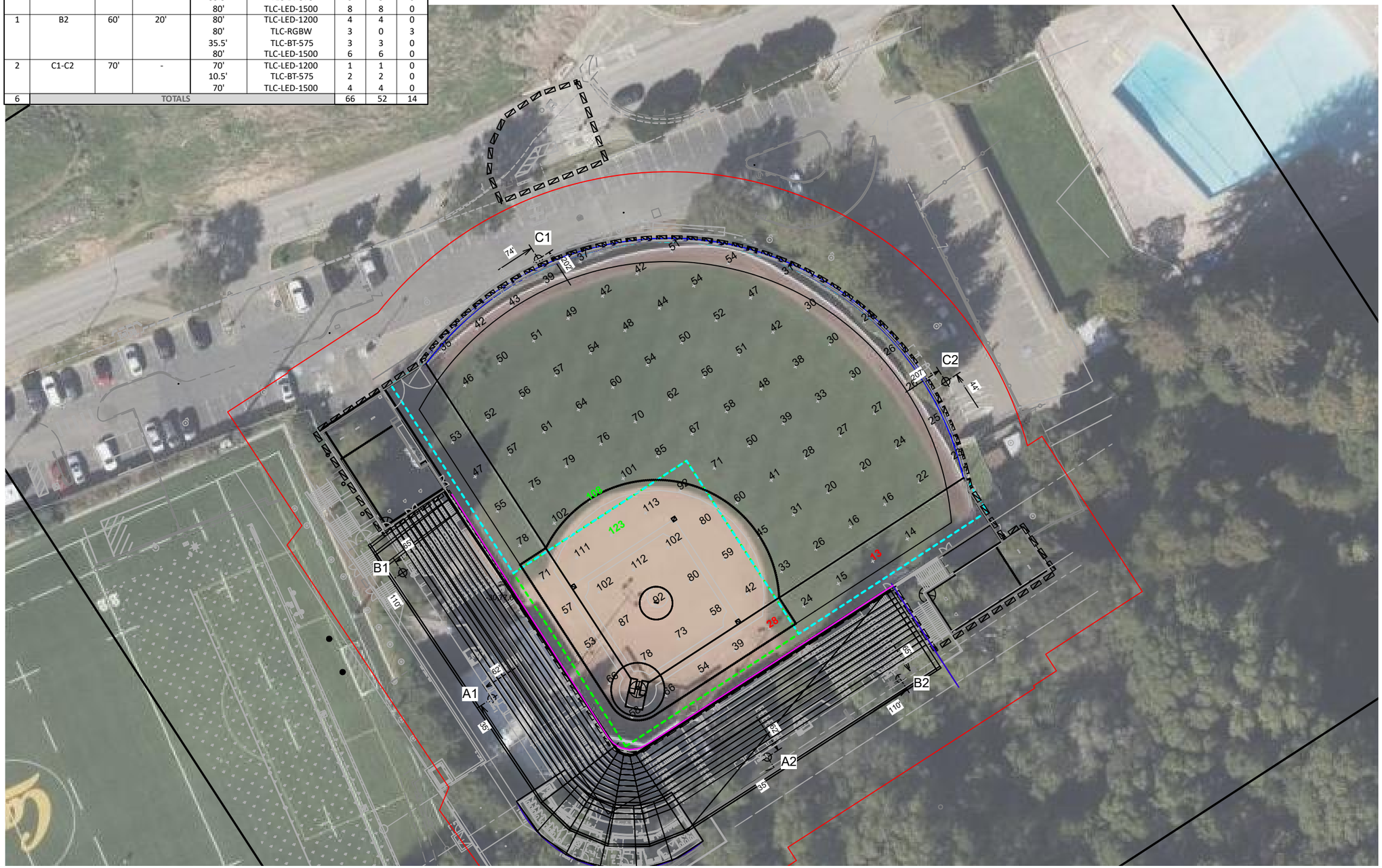
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	0	4
				35.5'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	0	3
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	-	70'	TLC-LED-1200	1	1	0
				10.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	52	14



SCALE IN FEET 1 : 50

0' 50' 100'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Softball**
Size:	190'/220'/190' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED TV FOOTCANDLES: 3rd Base

	Infield	Outfield
Guaranteed Average:	**70**	**40**
Scan Average:	75.90	46.00
Maximum:	122.8	107.8
Minimum:	27.9	13.3
Avg / Min:	2.72	3.45
Max / Min:	**4.40**	**8.08**
UG (adjacent pts):	1.80	1.72
CU:	0.49	
No. of Points:	25	80

LUMINAIRE INFORMATION

Applied Circuits:	A, C, D
No. of Luminaires:	**52**
Total Load:	59.75 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	B1	60'	20'	80'	TLC-LED-1200	2	0	2
				80'	TLC-RGBW	3	0	3
				35.48'	TLC-BT-575	3	0	3
				80'	TLC-LED-1500	8	2	6
1	TOTALS					16	2	14



SCALE IN FEET 1 : 10

0' 20' 40'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**LF Bullpen**
Size:	36' x 57'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**59.49**
Maximum:	69.2
Minimum:	45.8
Avg / Min:	1.30
Max / Min:	**1.51**
UG (adjacent pts):	1.35
CU:	0.28
No. of Points:	15

LUMINAIRE INFORMATION

Applied Circuits:	D
No. of Luminaires:	**2**
Total Load:	2.86 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	B2	60'	20'	80'	TLC-LED-1200	4	2	2
				80'	TLC-RGBW	3	0	3
				35.48'	TLC-BT-575	3	0	3
				80'	TLC-LED-1500	6	0	6
1	TOTALS					16	2	14



SCALE IN FEET 1 : 10

0' 20' 40'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**RF Bullpen**
Size:	57' x 24'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**52.55**
Maximum:	74.3
Minimum:	0.8
Avg / Min:	66.47
Max / Min:	**93.92**
UG (adjacent pts):	75.92
CU:	0.21
No. of Points:	12

LUMINAIRE INFORMATION

Applied Circuits:	C
No. of Luminaires:	**2**
Total Load:	2.34 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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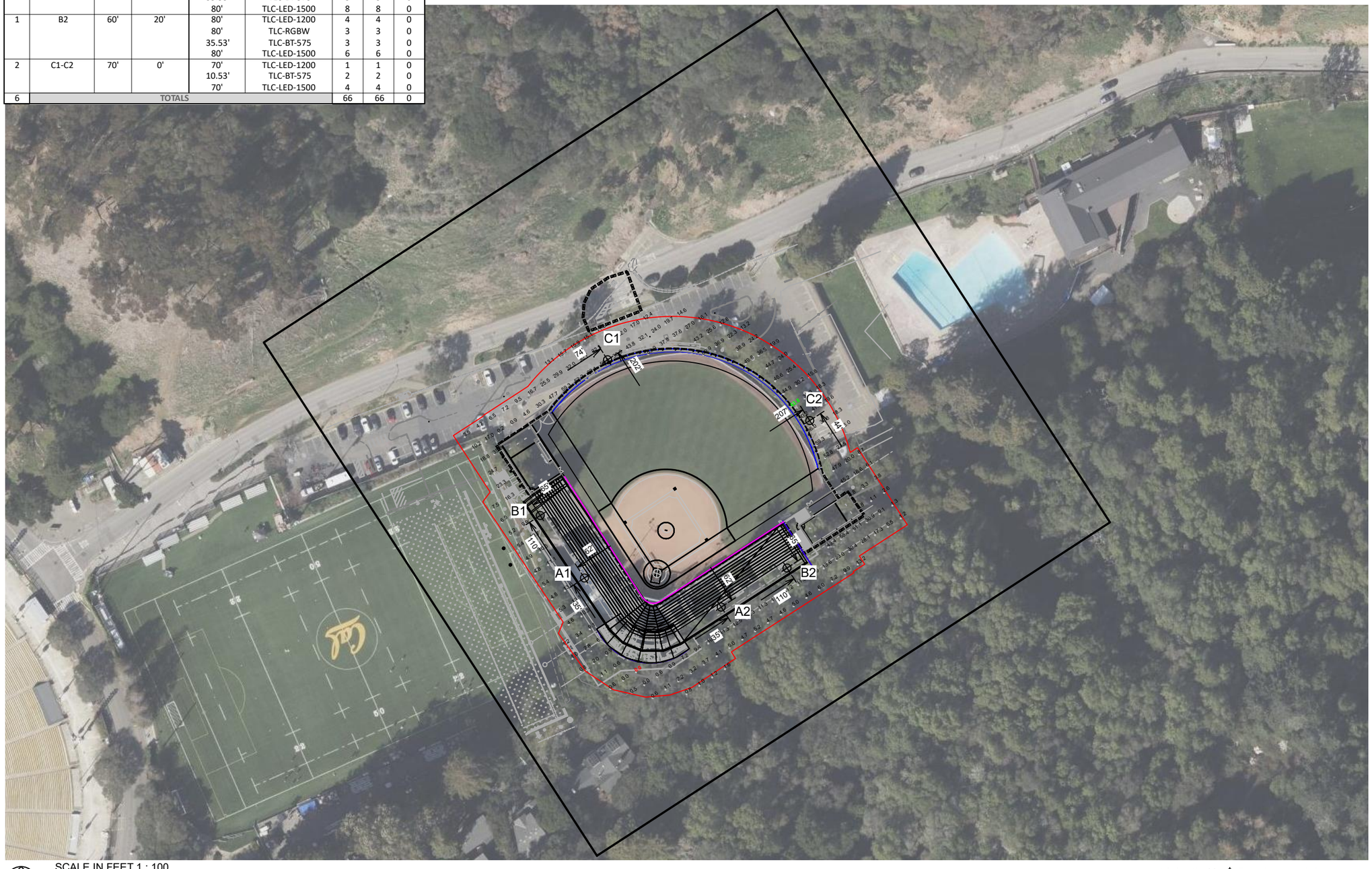
Levine-Fricke Softball Stadium

Berkeley,CA

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0


C1
C2
B1
A1
B2
A2
74'
202'
207'
110'
110'
35'
35'
35

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.48'	TLC-BT-575	2	0	2
				90'	TLC-LED-1500	4	0	4
1	B1	60'	20'	80'	TLC-LED-1200	2	0	2
				80'	TLC-RGBW	3	3	0
				35.48'	TLC-BT-575	3	0	3
				80'	TLC-LED-1500	8	0	8
1	B2	60'	20'	80'	TLC-LED-1200	4	0	4
				80'	TLC-RGBW	3	3	0
				35.48'	TLC-BT-575	3	0	3
				80'	TLC-LED-1500	6	0	6
4	TOTALS					52	14	38



SCALE IN FEET 1 : 30

0' 30' 60'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Egress**
Spacing:	10.0' x 10.0'
Height:	24.5' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**15.25**
Maximum:	26.9
Minimum:	0.0
Avg / Min:	-
Max / Min:	**-**
UG (adjacent pts):	0.00
CU:	0.61
No. of Points:	143

LUMINAIRE INFORMATION

Applied Circuits:	B
No. of Luminaires:	**14**
Total Load:	8.96 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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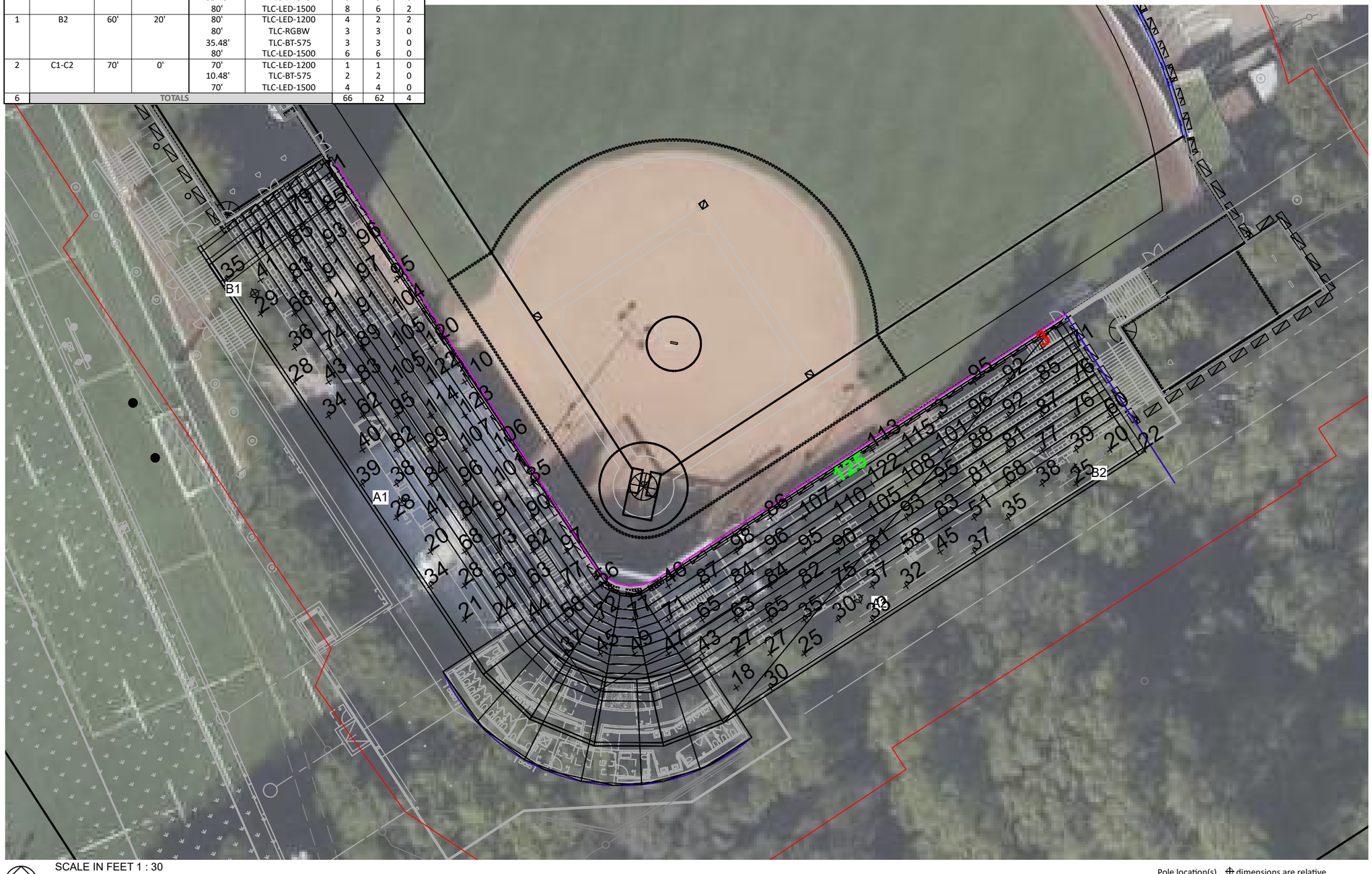
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.48'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.48'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	6	2
1	B2	60'	20'	80'	TLC-LED-1200	4	2	2
				80'	TLC-RGBW	3	3	0
				35.48'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.48'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	62	4



SCALE IN FEET 1 : 30

0' 30' 60'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Seating**
Spacing:	10.0' x 10.0'
Height:	24.5' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**69.77**
Maximum:	124.5
Minimum:	2.6
Avg / Min:	26.62
Max / Min:	**47.51**
UG (adjacent pts):	0.00
CU:	0.13
No. of Points:	137

LUMINAIRE INFORMATION

Applied Circuits:	A, B
No. of Luminaires:	**62**
Total Load:	63.51 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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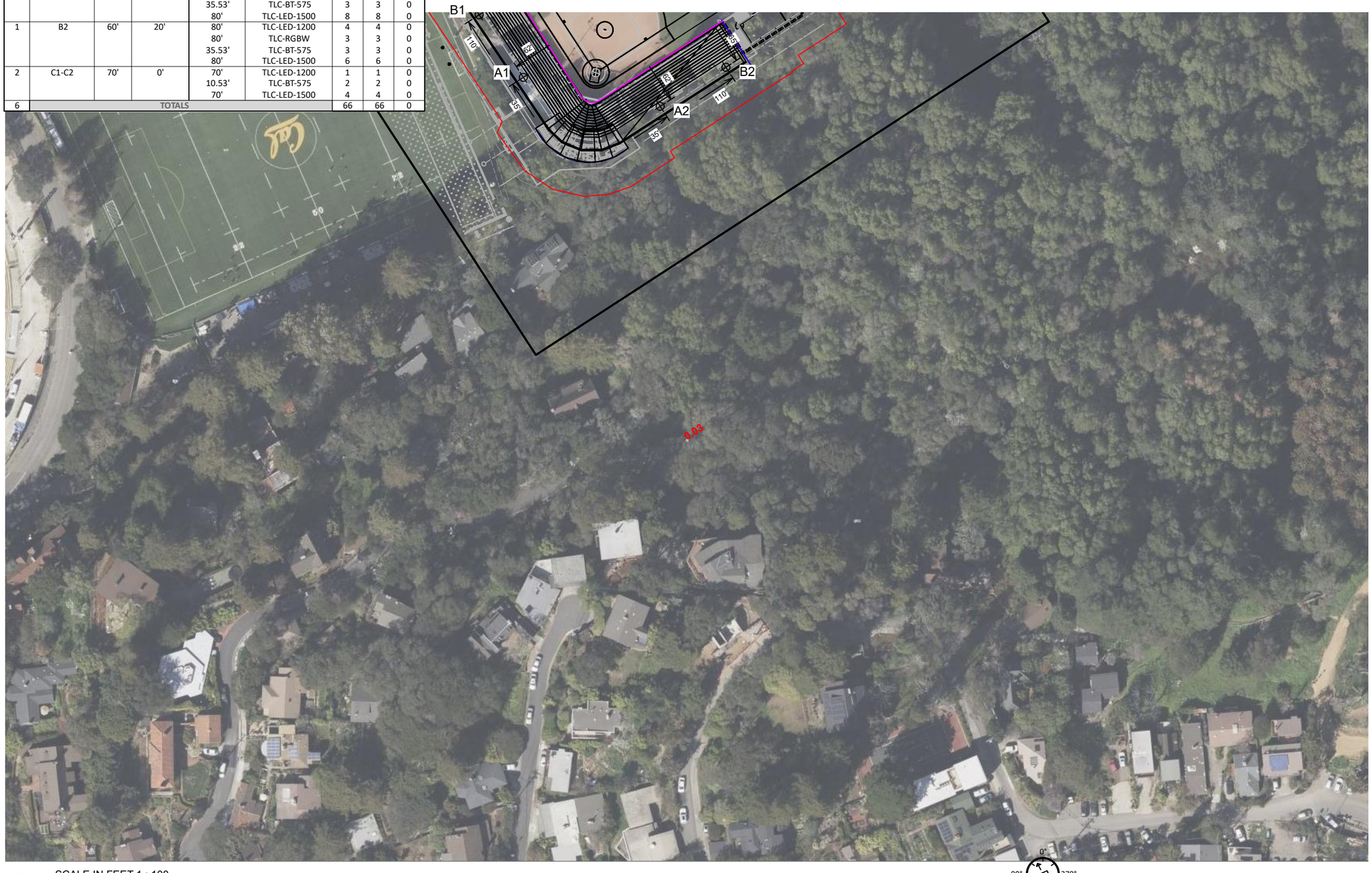
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

0° 90° 270° 180° METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**C**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	74.1' above grade

ILLUMINATION SUMMARY

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	**0.03**
Maximum:	0.0
Minimum:	0.0
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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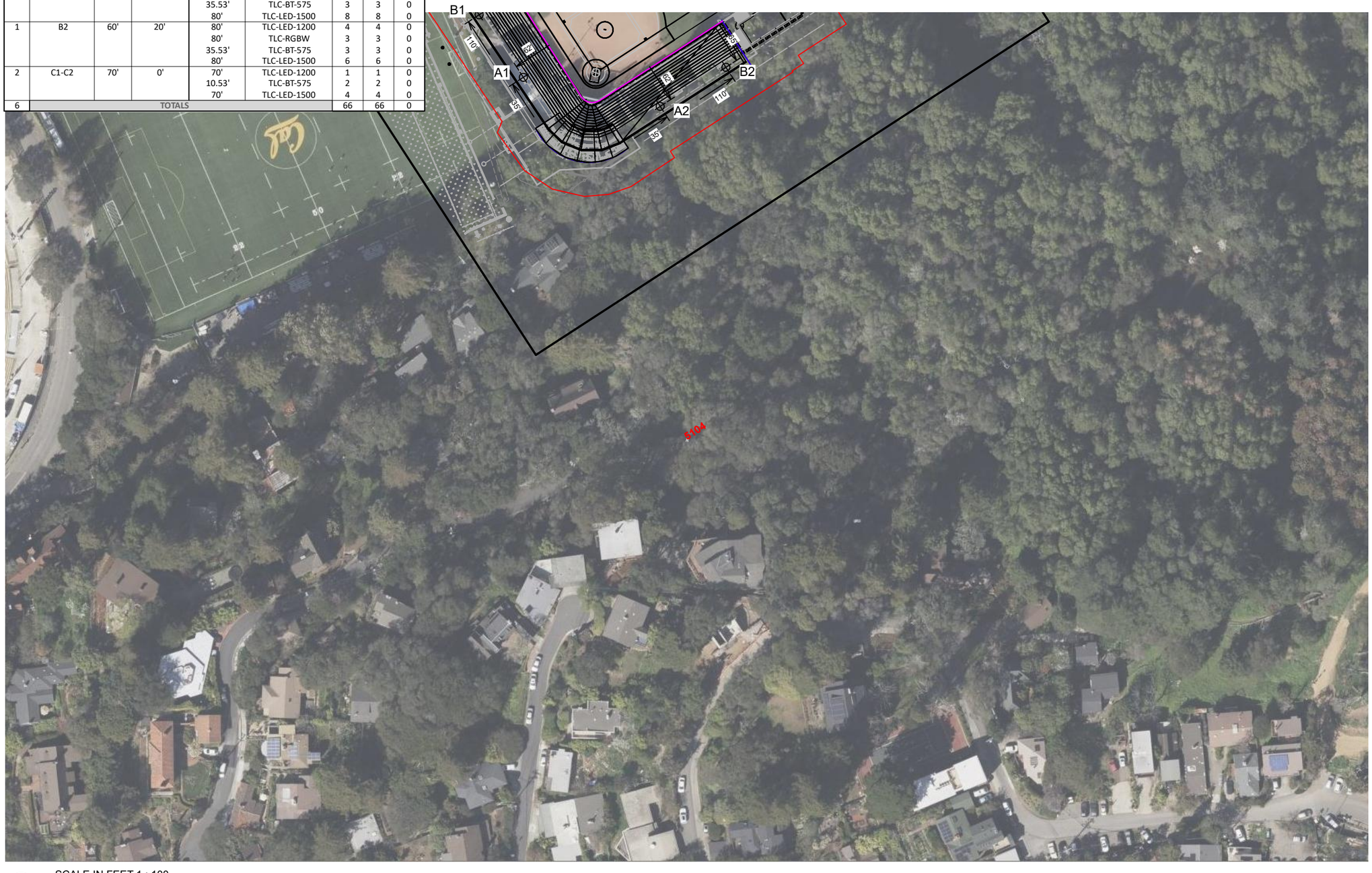
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**C**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	74.1' above grade

ILLUMINATION SUMMARY

MAINTAINED CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	**5104.09**
Maximum:	5104.1
Minimum:	5104.1
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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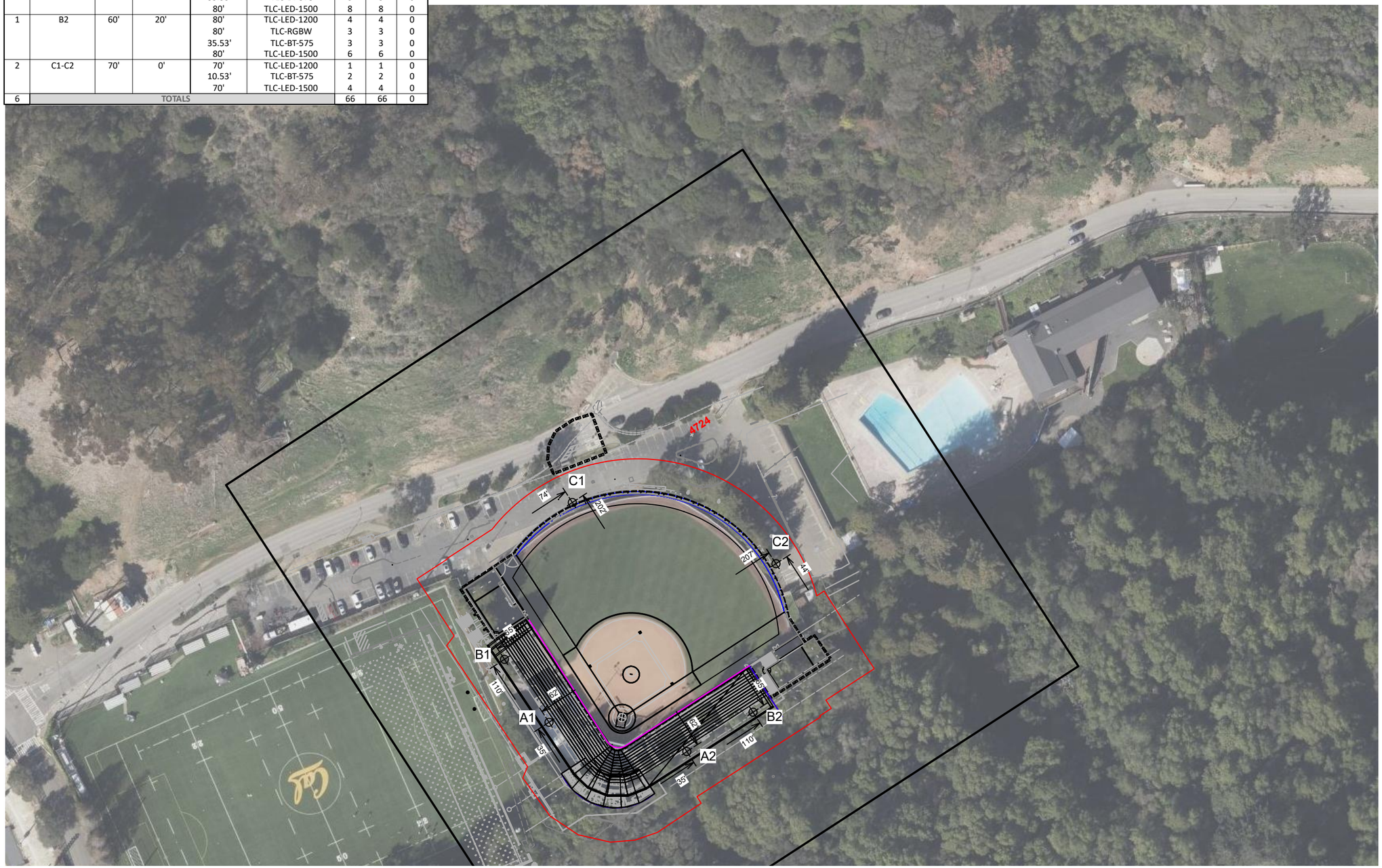
Levine-Fricke Softball Stadium

Berkeley,CA

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

GRID SUMMARY

Name:	**D**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	21.1' above grade

ILLUMINATION SUMMARY

MAINTAINED CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	**4724.28**
Maximum:	4724.3
Minimum:	4724.3
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
CU:	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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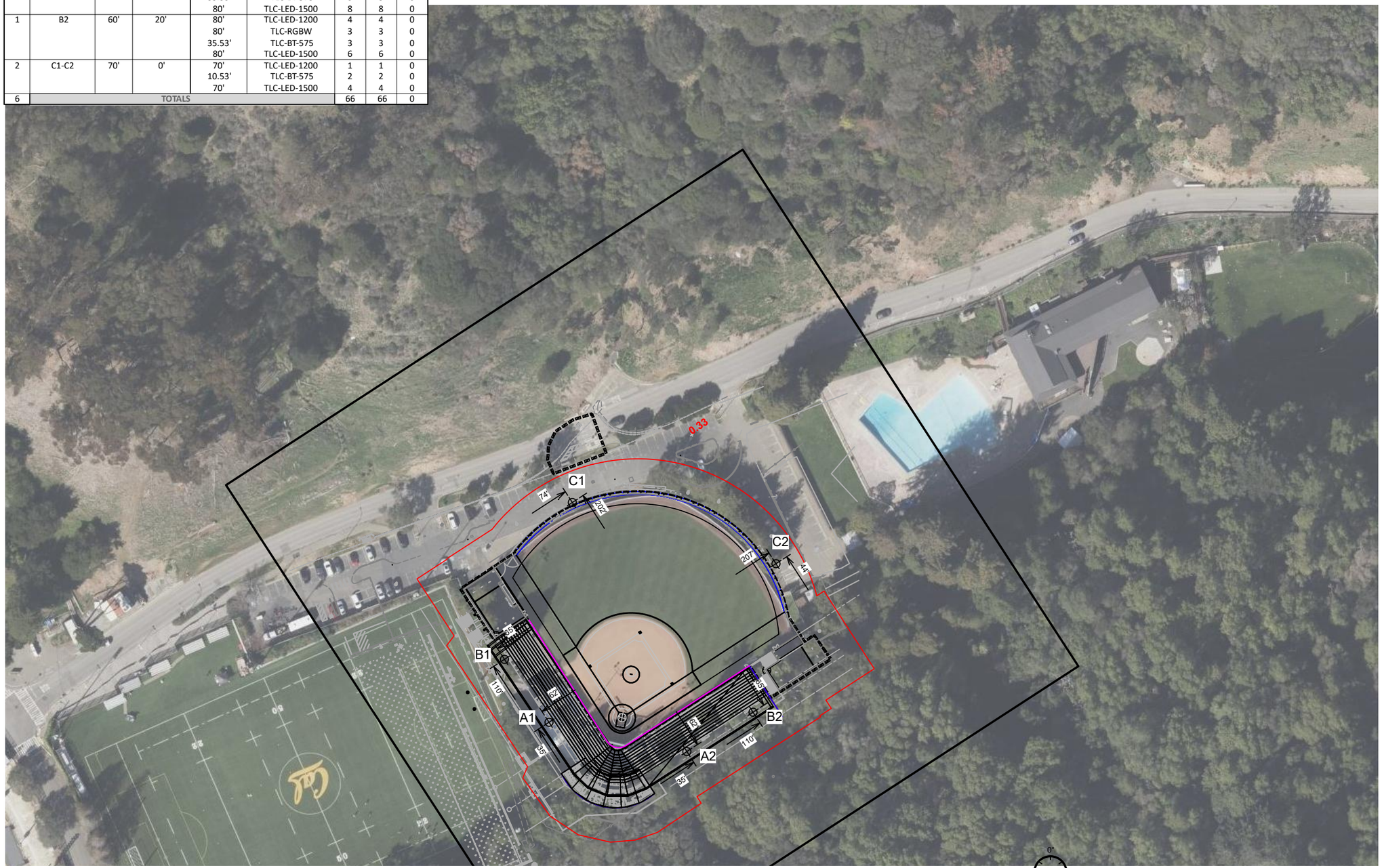
Levine-Fricke Softball Stadium

Berkeley,CA

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

GRID SUMMARY

Name:	**D**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	21.1' above grade

ILLUMINATION SUMMARY

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	**0.33**
Maximum:	0.3
Minimum:	0.3
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
CU:	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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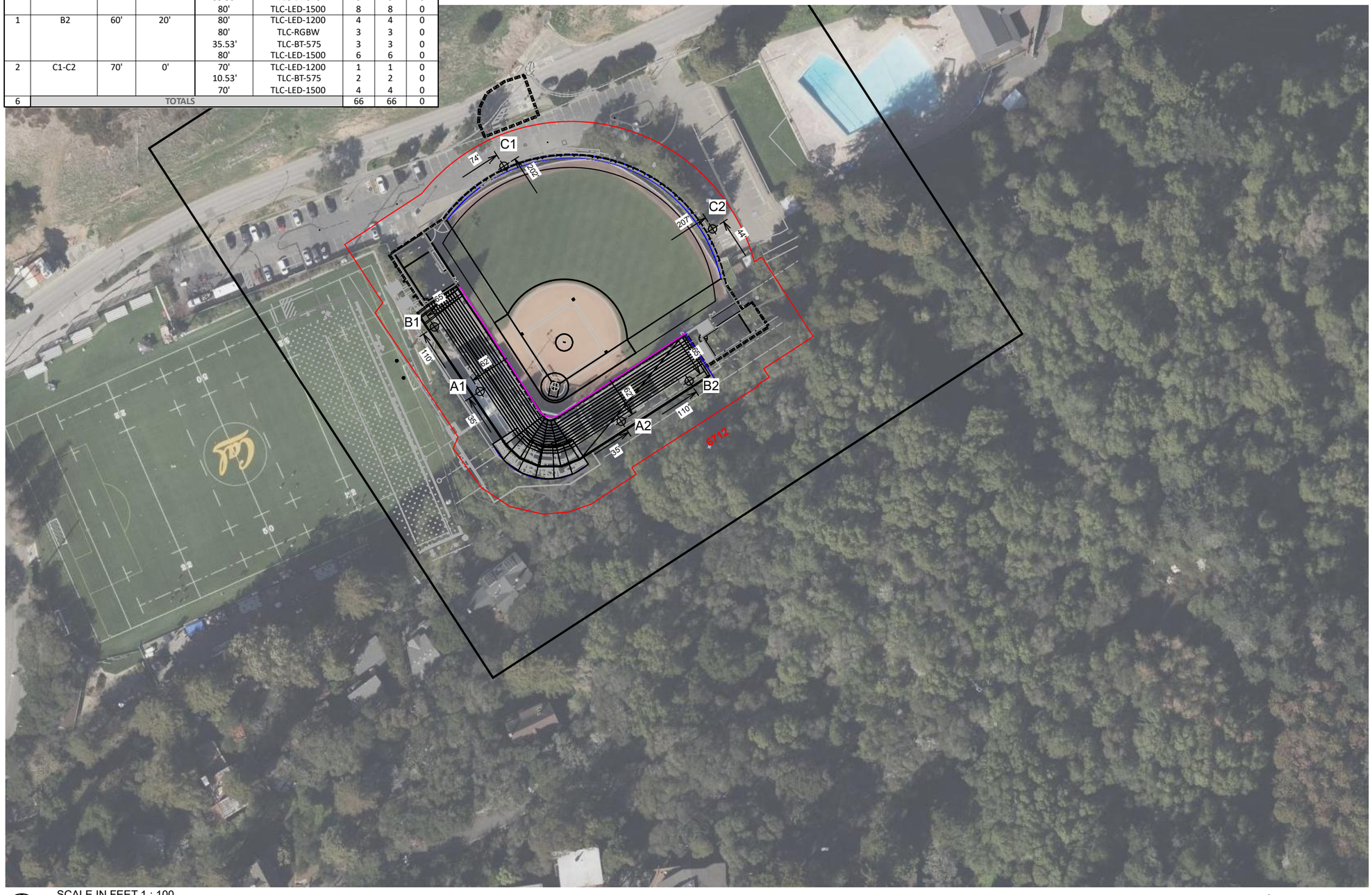
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**B**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	58.1' above grade

ILLUMINATION SUMMARY

MAINTAINED CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	**6711.69**
Maximum:	6711.7
Minimum:	6711.7
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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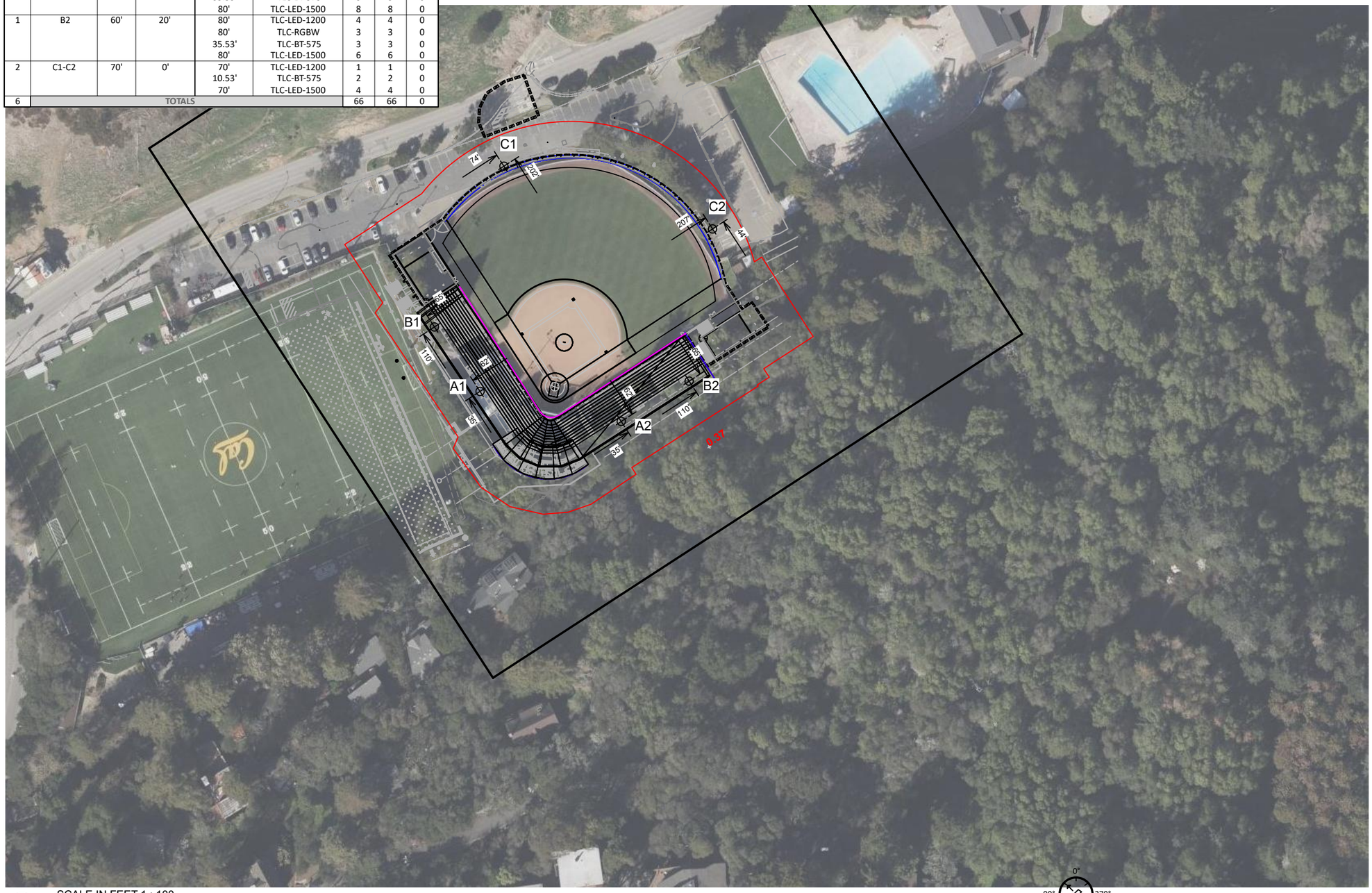
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**B**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	58.1' above grade

ILLUMINATION SUMMARY

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	**0.37**
Maximum:	0.4
Minimum:	0.4
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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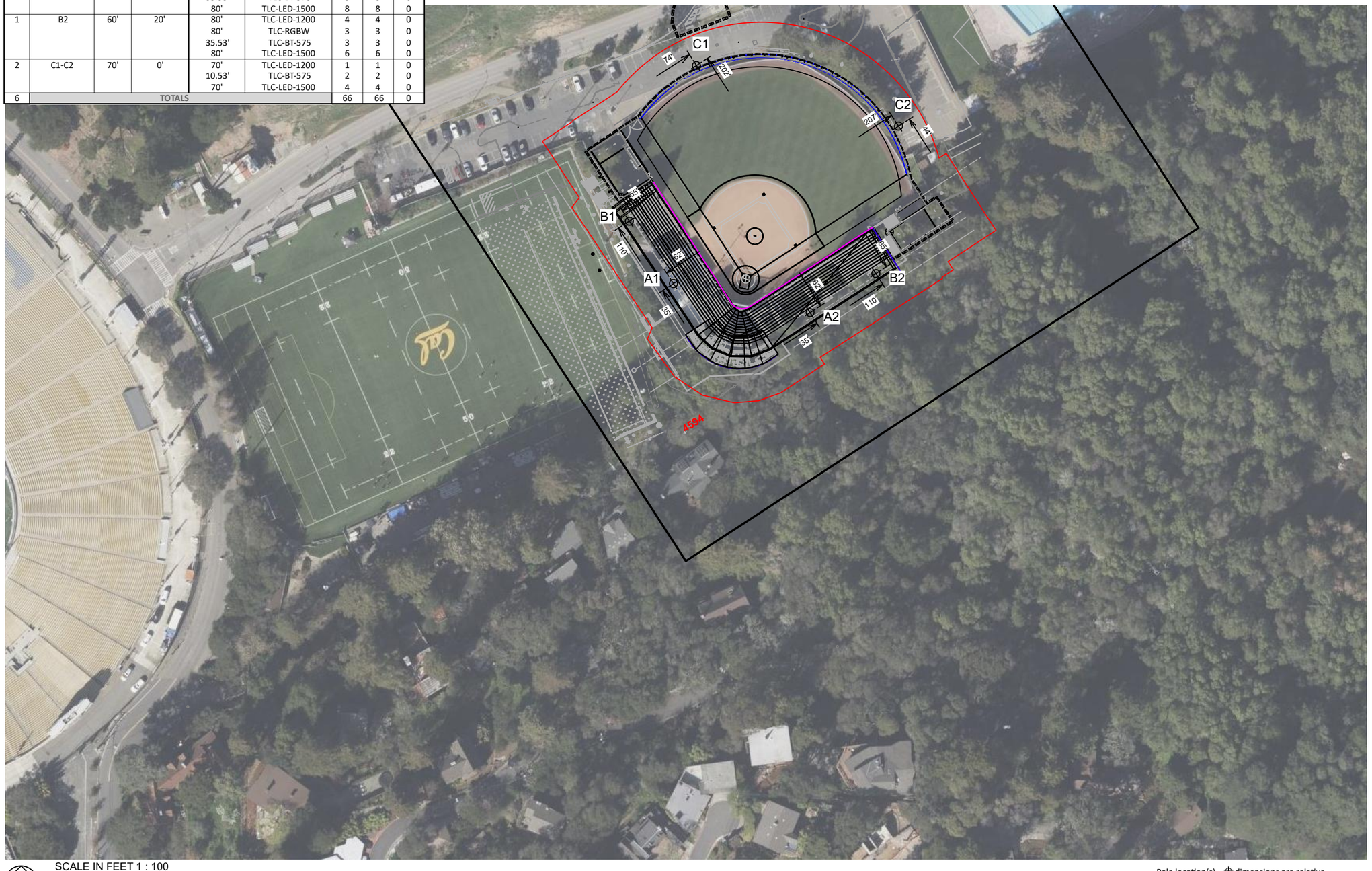
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**A**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	58.1' above grade

ILLUMINATION SUMMARY

MAINTAINED CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	**4593.96**
Maximum:	4594.0
Minimum:	4594.0
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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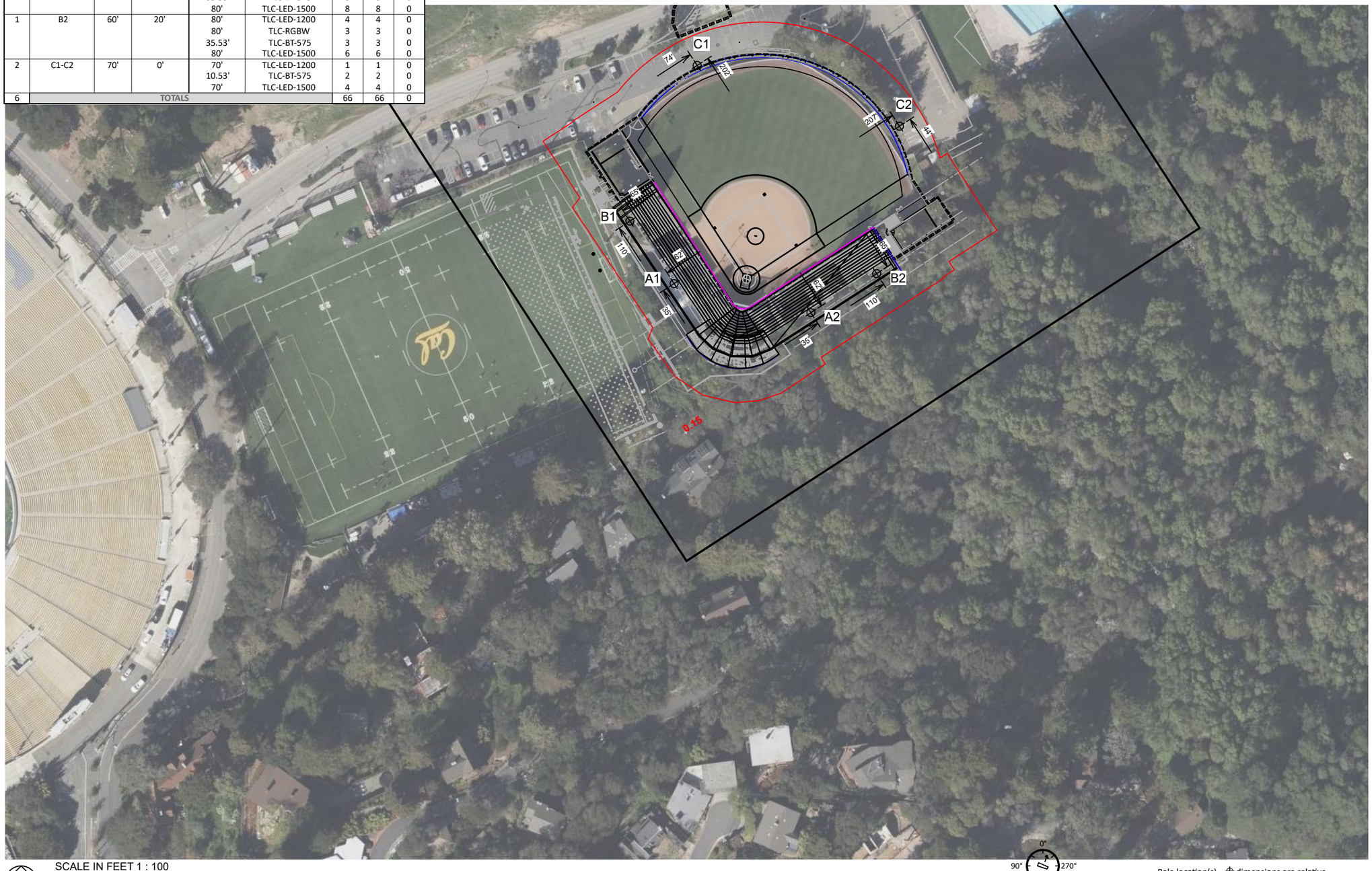
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.53'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.53'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	0'	70'	TLC-LED-1200	1	1	0
				10.53'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

0°
90° 270°
180°
METER ORIENTATION

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**A**
Size:	600' x 600'
Spacing:	10.0' x 10.0'
Height:	58.1' above grade

ILLUMINATION SUMMARY

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	**0.15**
Maximum:	0.2
Minimum:	0.2
Avg / Min:	1.00
Max / Min:	**1.00**
UG (adjacent pts):	0.00
No. of Points:	1

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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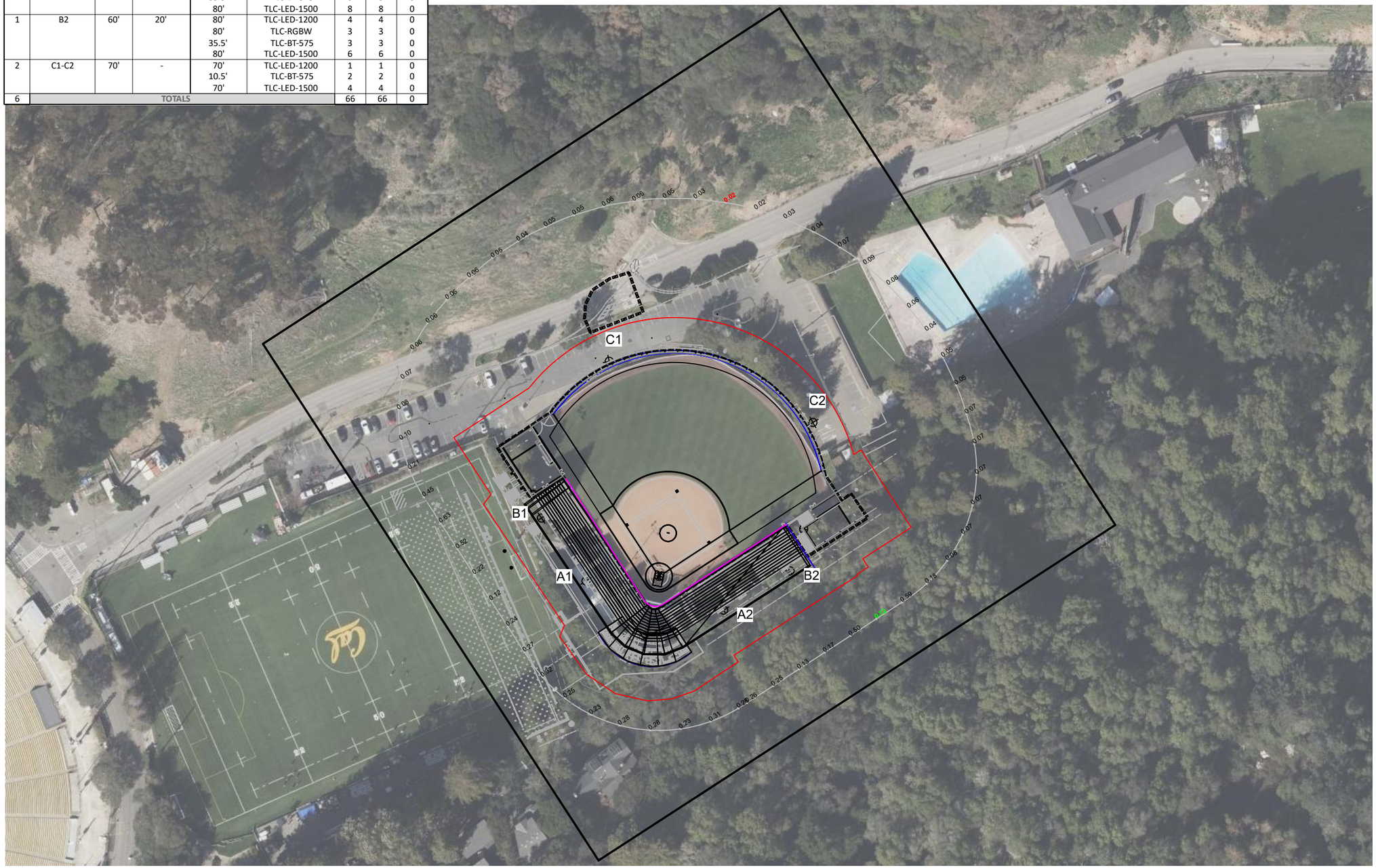
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.5'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	-	70'	TLC-LED-1200	1	1	0
				10.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Softball Spill 150'**
Spacing:	30.0'
Height:	5.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	0.1699
Maximum:	0.721
Minimum:	0.021
No. of Points:	56

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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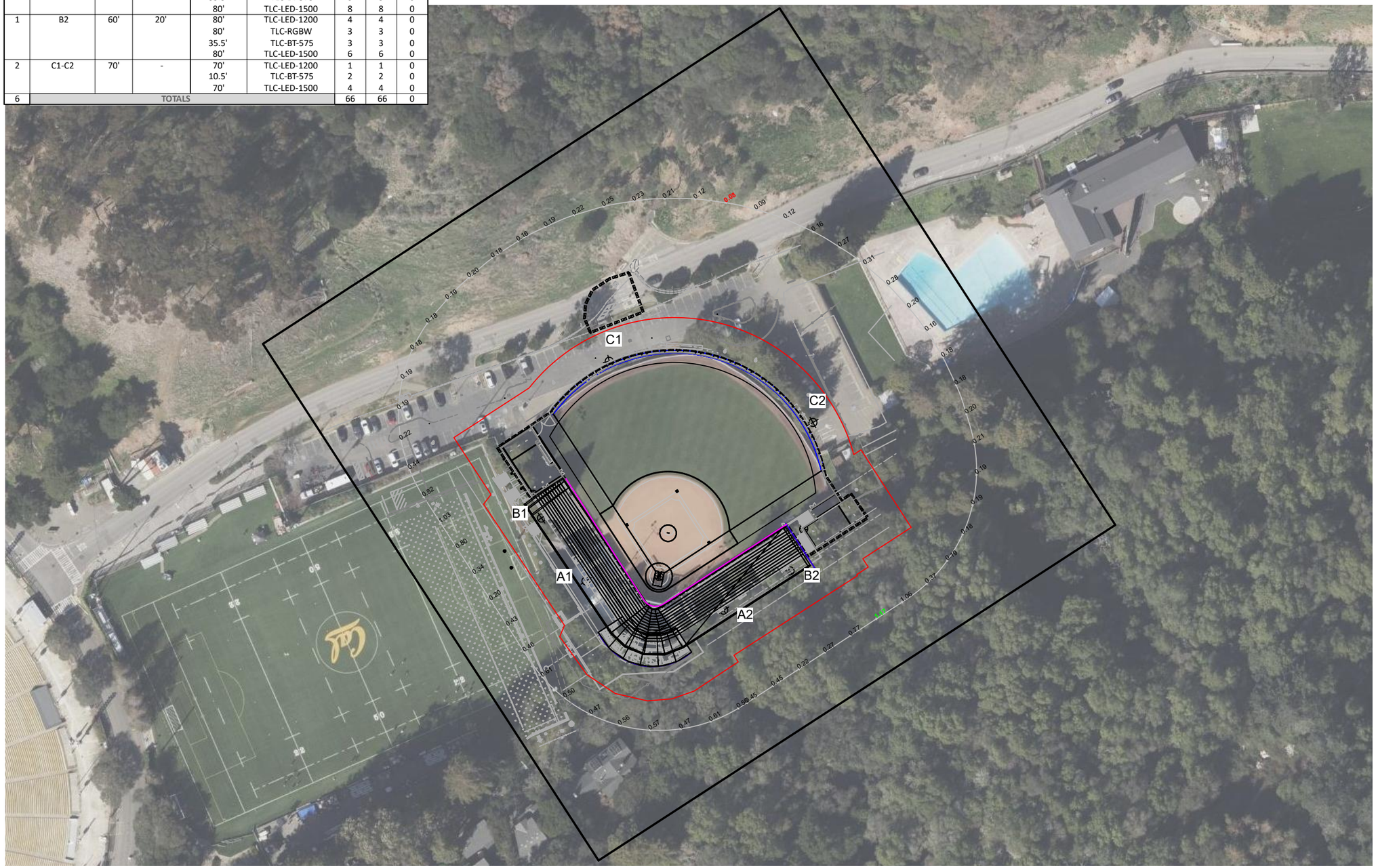
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.5'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	-	70'	TLC-LED-1200	1	1	0
				10.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Softball Spill 150'**
Spacing:	30.0'
Height:	5.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	0.3517
Maximum:	1.175
Minimum:	0.082
No. of Points:	56

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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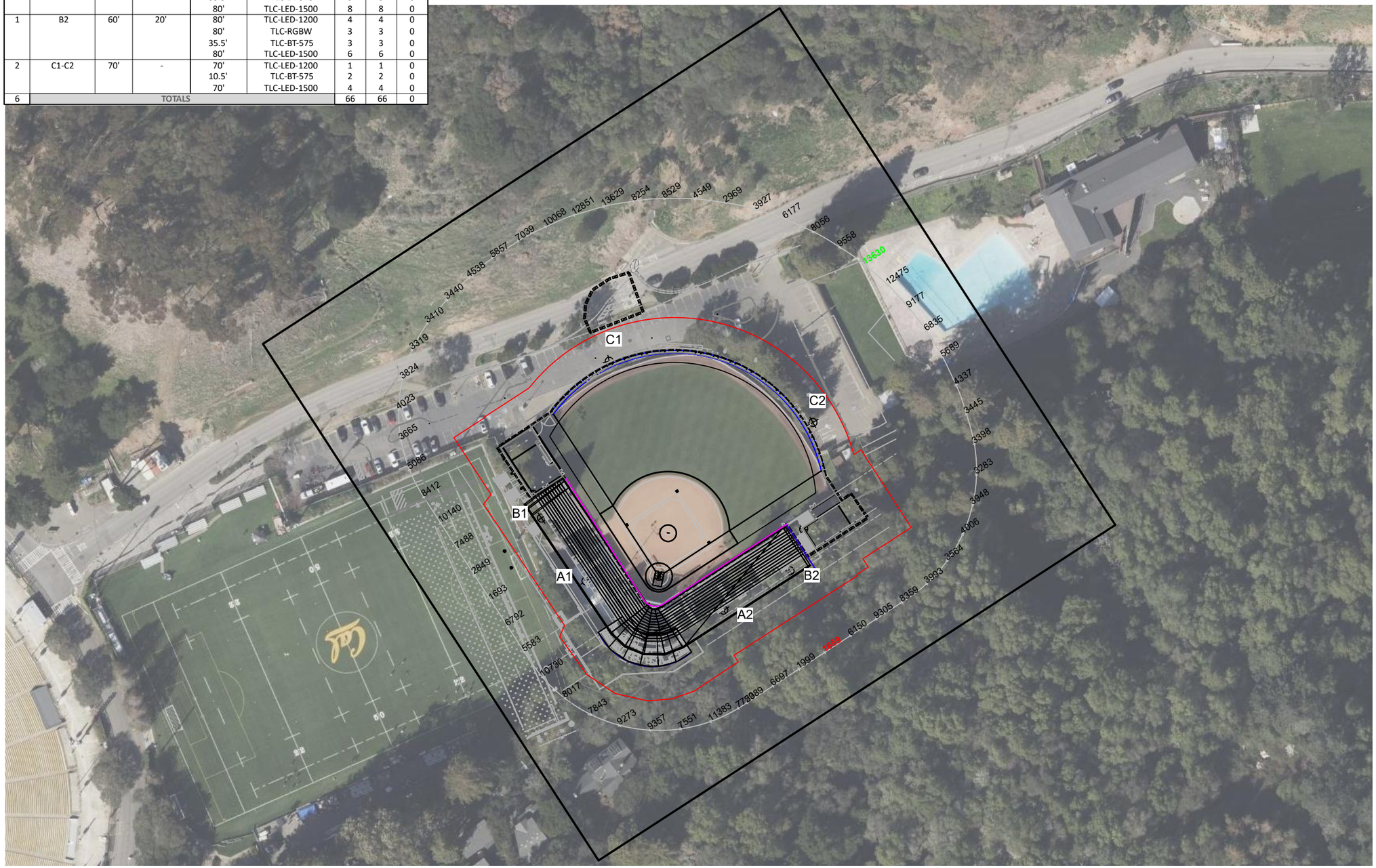
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	20'	90'	TLC-RGBW	4	4	0
				35.5'	TLC-BT-575	2	2	0
				90'	TLC-LED-1500	4	4	0
1	B1	60'	20'	80'	TLC-LED-1200	2	2	0
				80'	TLC-RGBW	3	3	0
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	8	8	0
1	B2	60'	20'	80'	TLC-LED-1200	4	4	0
				80'	TLC-RGBW	3	3	0
				35.5'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	6	6	0
2	C1-C2	70'	-	70'	TLC-LED-1200	1	1	0
				10.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	4	4	0
6	TOTALS					66	66	0



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

Levine-Fricke Softball Stadium

Berkeley,CA

GRID SUMMARY

Name:	**Softball Spill 150'**
Spacing:	30.0'
Height:	5.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	6527.4878
Maximum:	13629.835
Minimum:	1658.592
No. of Points:	56

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**66**
Total Load:	68.71 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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Levine-Fricke Softball Stadium

Berkeley,CA

EQUIPMENT LAYOUT

INCLUDES:
- Blanket Grid
- LF Bull Pen
- RF Bull Pen
- Softball

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

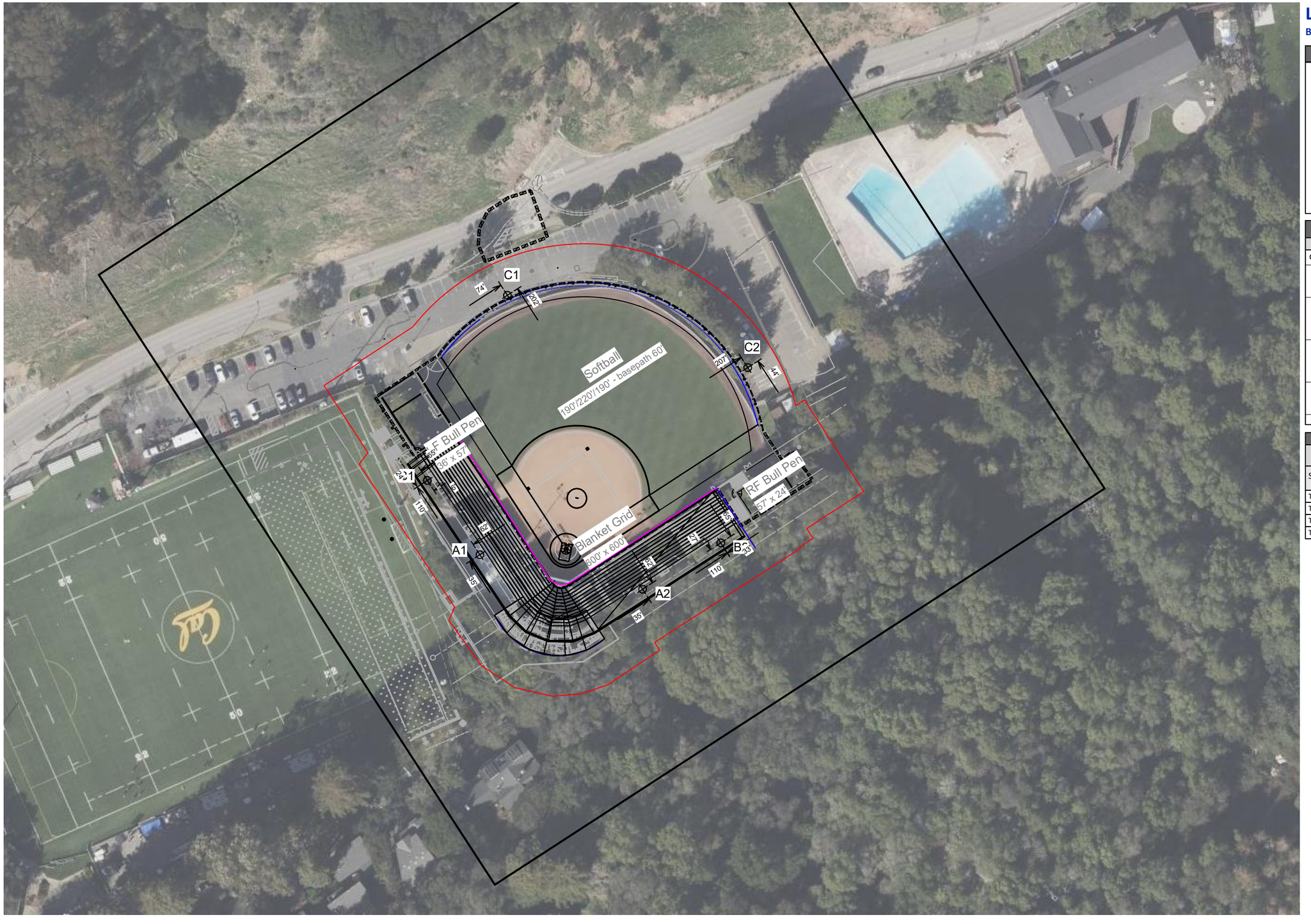
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

		Pole		Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/ POLE
2	A1-A2	70'	20'	90'	TLC-RGBW	4
				35.5'	TLC-BT-575	2
				90'	TLC-LED-1500	4
1	B1	60'	20'	80'	TLC-LED-1200	2
				80'	TLC-RGBW	3
				35.5'	TLC-BT-575	3
				80'	TLC-LED-1500	8
1	B2	60'	20'	80'	TLC-LED-1200	4
				80'	TLC-RGBW	3
				35.5'	TLC-BT-575	3
				80'	TLC-LED-1500	6
2	C1-C2	70'	-	70'	TLC-LED-1200	1
				10.5'	TLC-BT-575	2
				70'	TLC-LED-1500	4
6	TOTALS					66

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Driver (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	1.9	1.9
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5



SCALE IN FEET 1 : 80

0' 80' 160'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: D. Lohman · File #158277E · 30-May-23

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APPENDIX E-1

Plant Species

Appendix E-1 Plant Species

Plant species observed on September 15, 2022, during a reconnaissance-level field survey of the biological study area (BSA) for the UC Berkeley Cal Softball Field Renovation Project (project) which includes the project site and a 500-foot buffer of areas adjacent to the site where access was allowed. The field survey included mapping and documenting vegetation communities and land cover types present on the BSA and assessing the potential for special-status plant species to occur within the BSA.

Vascular Species

Eudicots

ARALIACEAE–GINSENG FAMILY

* *Hedera helix*–English ivy

ASTERACEAE–SUNFLOWER FAMILY

Erigeron canadensis–Canadian horseweed

CARYOPHYLLACEAE–PINK FAMILY

* *Polycarpon tetraphyllum*–fourleaf manyseed

FABACEAE–LEGUME FAMILY

* *Acacia melanoxylon*–blackwood
* *Genista monspessulana*–French broom

FAGACEAE–OAK FAMILY

Quercus agrifolia–coast live oak

GROSSULARIACEAE–GOOSEBERRY FAMILY

Ribes sanguineum–redflower currant

LAURACEAE–LAUREL FAMILY

Umbellularia californica–California bay

ROSACEAE–ROSE FAMILY

Rubus ursinus–California blackberry

Ferns and Fern Allies

DRYOPTERIDACEAE–WOOD FERN FAMILY

Polystichum munitum–western swordfern

Gymnosperms and Gnetophytes

CUPRESSACEAE–CYPRESS FAMILY

Sequoia sempervirens–redwood

Monocots

POACEAE–GRASS FAMILY

* *Avena fatua*–wild oat

* signifies introduced (non-native) species

APPENDIX E-2

Wildlife Species

Appendix E-2 Wildlife Species

Wildlife species observed on September 15, 2022, during a reconnaissance-level field survey of the biological study area (BSA) for the UC Berkeley Cal Softball Field Renovation Project (project) which includes the project site and a 500-foot buffer of areas adjacent to the site where access was allowed. The field survey included mapping and documenting vegetation communities and land cover types present on the BSA and assessing the potential for special-status wildlife species to occur within the BSA.

Birds

Apodiformes – Swifts and Hummingbirds

TROCHILIDAE–HUMMINGBIRDS

Calypte anna–Anna's hummingbird

Piciformes – Woodpeckers and Allies

PICIDAE–WOODPECKERS AND ALLIES

Dryobates nuttallii–Nuttall's woodpecker

Dryobates pubescens–downy woodpecker

Passeriformes – Passerine Birds

CORVIDAE–CROWS AND JAYS

Corvus corax–common raven

Cyanocitta stelleri–Steller's jay

PARIDAE–CHICKADEES AND TITMICE

Poecile rufescens–chestnut-backed chickadee

TROGLODYTIDAE–WRENS

Thryomanes bewickii–Bewick's wren

TURDIDAE–THRUSHES

Catharus guttatus–hermit thrush

PASSERIDAE–OLD WORLD SPARROWS

* *Passer domesticus*–house sparrow

FRINGILLIDAE–FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Spinus psaltria–lesser goldfinch

PASSERELLIDAE–NEW WORLD SPARROWS

Melozone crissalis–California towhee

Pipilo maculatus–spotted towhee

Mammals

Rodentia - Rodents

GEOMYIDAE–POCKET GOPHERS

Thomomys bottae–Botta's pocket gopher

SCIURIDAE–SQUIRRELS

* *Sciurus niger*–eastern fox squirrel

CRICETIDAE–RATS, MICE, AND VOLES

Neotoma fuscipes–dusky-footed woodrat

* signifies introduced (non-native) species

APPENDIX E-3

Special-Status Plant Species Potential to Occur

Appendix E-3 Special-Status Plant Species Potential to Occur

Based on the results of the record searches and field reconnaissance, Dudek evaluated special-status species for their potential to occur in the biological study area (BSA) of the UC Berkeley Cal Softball Field Renovation Project (project) which includes the project site and a 500-foot buffer of areas adjacent to the site where access was allowed. The determination of a species' potential to occur was based on available habitat preference (e.g., soil types, elevation, vegetation communities) and life history literature; proximity of known occurrences; and habitat information gathered during field surveys.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Amsinckia lunaris	bent-flowered fiddleneck	None/None/1B.2	Cismontane woodland, Coastal bluff scrub, Valley and foothill grassland/ annual herb/Mar–June/ 10–1,640	**Low potential to occur.** Woodland and scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed.
Androsace elongata ssp. *acuta*	California androsace	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Meadows and seeps, Pinyon and juniper woodland, Valley and foothill grassland/annual herb/Mar–June/ 490–4,280	**Low potential to occur.** Woodland and scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed.
Anomobryum julaceum	slender silver moss	None/None/4.2	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest; Roadsides (usually)/ moss//330–3,280	**Not expected to occur.** Habitat absent from the BSA and project site.
Arctostaphylos pallida	pallid manzanita	FT/SE/1B.1	Broadleafed upland forest, Chaparral,	**Not expected to occur.** The site is outside the

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
			Cismontane woodland, Closed-cone coniferous forest, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/ perennial evergreen shrub/Dec–Mar/ 605–1,525	species' known elevation range.
Astragalus tener var. *tener*	alkali milk-vetch	None/None/1B.2	Playas, Valley and foothill grassland, Vernal pools; Alkaline/annual herb/ Mar–June/5–195	**Not expected to occur.** The site is outside the species' known elevation range.
Balsamorhiza macrolepis	big-scale balsamroot	None/None/1B.2	Chaparral, Cismontane woodland, Valley and foothill grassland; Serpentinite (sometimes)/ perennial herb/Mar–June/150–5,100	**Low potential to occur.** Woodland and scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed.
Blepharizonia plumosa	big tarplant	None/None/1B.1	Valley and foothill grassland; Clay (usually)/ annual herb/July–Oct/ 100–1,655	**Low potential to occur.** Grassland habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and there are no CNDDB occurrences west of the Berkeley Hills.
Calochortus pulchellus	Mt. Diablo fairy-lantern	None/None/1B.2	Chaparral, Cismontane woodland, Riparian	**Low potential to occur.** Woodland and

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
			woodland, Valley and foothill grassland/ perennial bulbiferous herb/Apr–June/ 100–2,755	grassland habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and there are no CNDDB occurrences west of the Berkeley Hills.
Calochortus umbellatus	Oakland star-tulip	None/None/4.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland; Serpentinite (often)/ perennial bulbiferous herb/Mar–May/ 330–2,295	**Low potential to occur.** Woodland and grassland habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and there are no CNDDB occurrences within 5 miles of the site.
Calystegia purpurata ssp. *saxicola*	coastal bluff morning-glory	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, North Coast coniferous forest/ perennial herb/(Mar)Apr–Sep/0–345	**Not expected to occur.** Habitat absent from the BSA and project site.
Carex comosa	bristly sedge	None/None/2B.1	Coastal prairie, Marshes and swamps, Valley and foothill grassland/ perennial rhizomatous herb/May–Sep/0–2,050	**Not expected to occur.** Habitat absent from the BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Castilleja ambigua var. *ambigua*	johnny-nip	None/None/4.2	Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Valley and foothill grassland, Vernal pools/annual herb (hemiparasitic)/Mar–Aug/0–1,425	**Not expected to occur.** Habitat absent from the BSA and project site.
Centromadia parryi ssp. *congdonii*	Congdon's tarplant	None/None/1B.1	Valley and foothill grassland/annual herb/ May–Oct(Nov)/0–755	**Low potential to occur.** Grassland habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and there are no CNDDB occurrences within 5 miles of the site.
Chloropyron maritimum ssp. *palustre*	Point Reyes salty bird's-beak	None/None/1B.2	Marshes and swamps/ annual herb (hemiparasitic)/June–Oct/0–35	**Not expected to occur.** Habitat absent from the BSA and project site.
Chorizanthe cuspidata var. *cuspidata*	San Francisco Bay spineflower	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub; Sandy/annual herb/ Apr–July(Aug)/10–705	**Not expected to occur.** Habitat absent from the BSA and project site.
Chorizanthe robusta var. *robusta*	robust spineflower	FE/None/1B.1	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub; Gravelly (sometimes), Sandy	**Not expected to occur.** Habitat absent from the BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
			(sometimes)/annual herb/Apr–Sep/10–985	
Cicuta maculata var. *bolanderi*	Bolander's water-hemlock	None/None/2B.1	Marshes and swamps/ perennial herb/July–Sep/ 0–655	**Not expected to occur.** Habitat absent from the BSA and project site.
Cirsium andrewsii	Franciscan thistle	None/None/1B.2	Broadleafed upland forest, Coastal bluff scrub, Coastal prairie, Coastal scrub; Mesic, Serpentinite (sometimes)/perennial herb/Mar–July/0–490	**Low potential to occur.** Scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed. There is one CNDDB occurrence within 5 miles of the site approx. 2.1 miles to the northeast.
Clarkia concinna ssp. *automixa*	Santa Clara red ribbons	None/None/4.3	Chaparral, Cismontane woodland/annual herb/(Apr)May–June(July)/295–4,920	**Low potential to occur.** Woodland and grassland habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and the only CNDDB occurrence within 5 miles is a 1936 collection approx. 4.8 miles to the southeast.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Clarkia franciscana	Presidio clarkia	FE/SE/1B.1	Coastal scrub, Valley and foothill grassland/annual herb/May–July/80–1,095	**Low potential to occur.** Woodland and scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and there are no CNDDB occurrences within 5 miles of the site.
Dirca occidentalis	western leatherwood	None/None/1B.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Closed-cone coniferous forest, North Coast coniferous forest, Riparian forest, Riparian woodland; On brushy slopes, mesic/perennial deciduous shrub/Jan–Mar(Apr)/80–1,390	**Known to occur.** There is a historic CNDDB occurrence "across from the Haas Clubhouse and pool" on the north-facing hillside in the southeastern portion of the BSA (Occ. No. 19; CDFW 2022). The most recent nearby occurrence is a 2009 observation approximately 0.9 mile southeast of the BSA. Suitable woodland habitat is present in this part of the BSA but absent from the project site.
Eriogonum luteolum var. *caninum*	Tiburon buckwheat	None/None/1B.2	Chaparral, Cismontane woodland, Coastal prairie,	**Low potential to occur.** Woodland and scrub

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
			Valley and foothill grassland; Gravelly, Sandy, Serpentinite/ annual herb/May–Sep/ 0–2,295	habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed. The nearest CNDDB occurrence is a 2009 observation approximately 5 miles to the southeast.
Eryngium jepsonii	Jepson's coyote-thistle	None/None/1B.2	Valley and foothill grassland, Vernal pools; Clay/perennial herb/ Apr–Aug/10–985	**Not expected to occur.** Habitat absent from the BSA and project site.
Erythranthe laciniata	cut-leaved monkeyflower	None/None/4.3	Chaparral, Lower montane coniferous forest, Upper montane coniferous forest; Granitic, Mesic/annual herb/Apr–July/1,605–8,690	**Not expected to occur.** Habitat absent from the BSA and project site.
Extriplex joaquinana	San Joaquin spearscale	None/None/1B.2	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland; Alkaline/ annual herb/Apr–Oct/ 5–2,735	**Not expected to occur.** Habitat absent from the BSA and project site.
Fissidens pauperculus	minute pocket moss	None/None/1B.2	North Coast coniferous forest/moss//35–3,355	**Not expected to occur.** Habitat absent from the BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Fritillaria agrestis	stinkbells	None/None/4.2	Chaparral, Cismontane woodland, Pinyon and juniper woodland, Valley and foothill grassland; Clay, Serpentinite (sometimes)/perennial bulbiferous herb/Mar–June/35–5,100	**Not expected to occur.** Clay soils and serpentinite absent from BSA and project site.
Fritillaria liliacea	fragrant fritillary	None/None/1B.2	Cismontane woodland, Coastal prairie, Coastal scrub, Valley and foothill grassland; Serpentinite (often)/perennial bulbiferous herb/Feb–Apr/10–1,345	**Not expected to occur.** Serpentinite absent from BSA and project site.
Gilia capitata ssp. *chamissonis*	blue coast gilia	None/None/1B.1	Coastal dunes, Coastal scrub/annual herb/ Apr–July/5–655	**Not expected to occur.** Habitat absent from the BSA and project site.
Gilia millefoliata	dark-eyed gilia	None/None/1B.2	Coastal dunes/annual herb/Apr–July/5–100	**Not expected to occur.** Habitat absent from the BSA and project site.
Helianthella castanea	Diablo helianthella	None/None/1B.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland, Valley and foothill grassland; Azonal soils, Partial Shade (often), Rocky (usually)/	**Not expected to occur.** Azonal soils and rocky substrate absent from BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
			perennial herb/Mar–June/195–4,265	
Hemizonia congesta ssp. *congesta*	congested-headed hayfield tarplant	None/None/1B.2	Valley and foothill grassland; Roadsides (sometimes)/annual herb/Apr–Nov/65–1,835	**Low potential to occur.** Grassland/roadside habitat is present in the BSA but absent from the project site. There are no CNDDB occurrences within 5 miles of the site.
Hesperevax caulescens	hogwallow starfish	None/None/4.2	Valley and foothill grassland, Vernal pools; Alkaline (sometimes)/ annual herb/Mar–June/ 0–1,655	**Not expected to occur.** Habitat absent from the BSA and project site.
Heteranthera dubia	water star-grass	None/None/2B.2	Marshes and swamps; Alkaline/perennial herb (aquatic)/July–Oct/ 100–4,900	**Not expected to occur.** Habitat absent from the BSA and project site.
Hoita strobilina	Loma Prieta hoita	None/None/1B.1	Chaparral, Cismontane woodland, Riparian woodland; Mesic, Serpentinite (usually)/ perennial herb/May–July(Aug–Oct)/100–2,820	**Not expected to occur.** Serpentinite absent from BSA and project site.
Holocarpha macradenia	Santa Cruz tarplant	FT/SE/1B.1	Coastal prairie, Coastal scrub, Valley and foothill grassland; Clay (often), Sandy/annual herb/ June–Oct/35–720	**Not expected to occur.** Clay or sandy soils absent from BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Horkelia cuneata var. *sericea*	Kellogg's horkelia	None/None/1B.1	Chaparral, Closed-cone coniferous forest, Coastal dunes, Coastal scrub; Gravelly (sometimes), Openings, Sandy (sometimes)/perennial herb/Apr–Sep/35–655	**Not expected to occur.** Habitat absent from the BSA and project site.
Iris longipetala	coast iris	None/None/4.2	Coastal prairie, Lower montane coniferous forest, Meadows and seeps; Mesic/perennial rhizomatous herb/Mar–May(June)/0–1,965	**Not expected to occur.** Habitat absent from the BSA and project site.
Isocoma arguta	Carquinez goldenbush	None/None/1B.1	Valley and foothill grassland/perennial shrub/Aug–Dec/5–65	**Not expected to occur.** The site is outside of the species' known geographic range.
Juglans californica	Southern California black walnut	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/ perennial deciduous tree/ Mar–Aug/165–2,950	**Not expected to occur.** The site is outside of the species' known geographic range.
Lasthenia conjugens	Contra Costa goldfields	FE/None/1B.1	Cismontane woodland, Playas, Valley and foothill grassland, Vernal pools; Mesic/annual herb/Mar–June/0–1,540	**Not expected to occur.** Habitat absent from the BSA and project site.
Layia carnosa	beach layia	FT/SE/1B.1	Coastal dunes, Coastal scrub/annual herb/Mar–July/0–195	**Not expected to occur.** Habitat absent from the BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Leptosiphon aureus	bristly leptosiphon	None/None/4.2	Chaparral, Cismontane woodland, Coastal prairie, Valley and foothill grassland/annual herb/ Apr–July/180–4,920	**Low potential to occur.** Woodland and scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and there are no CNDDB occurrences within 5 miles of the site.
Leptosiphon grandiflorus	large-flowered leptosiphon	None/None/4.2	Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Valley and foothill grassland; Sandy (usually)/annual herb/ Apr–Aug/15–4,000	**Not expected to occur.** Habitat absent from the BSA and project site.
Leptosiphon rosaceus	rose leptosiphon	None/None/1B.1	Coastal bluff scrub/ annual herb/Apr–July/ 0–330	**Not expected to occur.** Habitat absent from the BSA and project site.
Lessingia hololeuca	woolly-headed lessingia	None/None/3	Broadleafed upland forest, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; Clay, Serpentinite/annual herb/June–Oct/ 50–1,000	**Not expected to occur.** Clay soils and serpentinite absent from BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Meconella oregana	Oregon meconella	None/None/1B.1	Coastal prairie, Coastal scrub/annual herb/Mar–Apr/820–2,030	**Not expected to occur.** The site is outside of the species' known elevation range.
Monolopia gracilens	woodland woollythreads	None/None/1B.2	Broadleafed upland forest, Chaparral, Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland; Serpentinite/ annual herb/(Feb)Mar–July/330–3,935	**Not expected to occur.** Serpentinite absent from BSA and project site.
Oenothera deltoides ssp. *howellii*	Antioch Dunes evening-primrose	FE/SE/1B.1	Inland dunes/perennial herb/Mar–Sep/0–100	**Not expected to occur.** Habitat absent from the BSA and project site.
Piperia michaelii	Michael's rein orchid	None/None/4.2	Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal scrub, Lower montane coniferous forest/ perennial herb/Apr–Aug/ 10–3,000	**Low potential to occur.** Woodland and scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed.
Plagiobothrys chorisianus var. *chorisianus*	Choris' popcornflower	None/None/1B.2	Chaparral, Coastal prairie, Coastal scrub; Mesic/ annual herb/Mar–June/ 10–525	**Low potential to occur.** Scrub habitat is present in the BSA but absent from the project site. Habitat in the BSA is non-mesic and highly disturbed.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Plagiobothrys diffusus	San Francisco popcornflower	None/SE/1B.1	Coastal prairie, Valley and foothill grassland/annual herb/Mar–June/ 195–1,180	**Low potential to occur.** Very marginal grassland habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed and there are no CNDDB occurrences within 5 miles of the site.
Plagiobothrys glaber	hairless popcornflower	None/None/1A	Marshes and swamps, Meadows and seeps/ annual herb/Mar–May/ 50–590	**Not expected to occur.** Habitat absent from the BSA and project site.
Polygonum marinense	Marin knotweed	None/None/3.1	Marshes and swamps/ annual herb/(Apr)May–Aug(Oct)/0–35	**Not expected to occur.** Habitat absent from the BSA and project site.
Ranunculus lobbii	Lobb's aquatic buttercup	None/None/4.2	Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools; Mesic/annual herb (aquatic)/Feb–May/ 50–1,540	**Not expected to occur.** Habitat absent from the BSA and project site.
Sanicula maritima	adobe sanicle	None/SR/1B.1	Chaparral, Coastal prairie, Meadows and seeps, Valley and foothill grassland; Clay,	**Not expected to occur.** Clay soils and serpentinite absent from BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
			Serpentinite/perennial herb/Feb–May/100–785	
Spergularia macrotheca var. *longistyla*	long-styled sand-spurrey	None/None/1B.2	Marshes and swamps, Meadows and seeps; Alkaline/perennial herb/ Feb–May/0–835	**Not expected to occur.** Habitat absent from the BSA and project site.
Streptanthus albidus ssp. *peramoenus*	most beautiful jewelflower	None/None/1B.2	Chaparral, Cismontane woodland, Valley and foothill grassland; Serpentinite annual herb/(Mar)Apr–Sep(Oct)/ 310–3,280	**Not expected to occur.** Serpentinite absent from BSA and project site.
Stuckenia filiformis ssp. *alpina*	northern slender pondweed	None/None/2B.2	Marshes and swamps/ perennial rhizomatous herb (aquatic)/May–July/ 985–7,050	**Not expected to occur.** Habitat absent from the BSA and project site.
Suaeda californica	California seablite	FE/None/1B.1	Marshes and swamps/ perennial evergreen shrub/July–Oct/0–50	**Not expected to occur.** Habitat absent from the BSA and project site.
Trifolium hydrophilum	saline clover	None/None/1B.2	Marshes and swamps, Valley and foothill grassland, Vernal pools/ annual herb/Apr–June/ 0–985	**Not expected to occur.** Habitat absent from the BSA and project site.
Triphysaria floribunda	San Francisco owl's-clover	None/None/1B.2	Coastal prairie, Coastal scrub, Valley and foothill grassland; Serpentinite (usually)/annual herb/ Apr–June/35–525	**Not expected to occur.** Habitat absent from the BSA and project site.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur in Biological Study Area (BSA)
Viburnum ellipticum	oval-leaved viburnum	None/None/2B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest/ perennial deciduous shrub/May–June/ 705–4,590	**Not expected to occur.** The site is outside the species' known elevation range.

Source: CDFW 2022
Notes: Status Legend:
FT: Federally listed as threatened
SE: State listed as endangered
CRPR 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
CRPR 1B: Plants rare, threatened, or endangered in California and elsewhere
CRPR 2B: Plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3: Review List: Plants about which more information is needed
CRPR 4: Watch List: Plants of limited distribution

CRPR threat ranks for the above categories:
.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Moderately threatened in California (20–80% occurrences threatened / moderate degree and immediacy of threat)
.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

APPENDIX E-4

Special-Status Wildlife Species Potential to Occur

Appendix E-4 Special-Status Wildlife Species Potential to Occur

Based on the results of the record searches and field reconnaissance, Dudek evaluated special-status species for their potential to occur in the biological study area (BSA) of the UC Berkeley Cal Softball Field Renovation Project (project) which includes the project site and a 500-foot buffer of areas adjacent to the site where access was allowed. The determination of a species' potential to occur was based on available habitat preference (e.g., soil types, elevation, vegetation communities) and life history literature; proximity of known occurrences; and habitat information gathered during field surveys.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
Invertebrates				
Crotch bumble bee	*Bombus crotchii*	None/SCE	Open grassland and scrub communities supporting suitable floral resources. Food plant includes *phacelia*, *Clarkia*, *Eschlozia*, and *Eriogonum* sp.	**Low potential to occur**. Potentially suitable grassland and scrub habitat is present in the BSA but absent from the project site. There is one CNDDB occurrence within 5 miles of the site, approximately 0.1 miles to the west, from 2015.
western bumble bee	*Bombus occidentalis*	None/SCE	Once common and widespread, species has declined precipitously from central California to southern British Columbia, perhaps from disease.	**Low potential to occur**. Potentially suitable grassland and scrub habitat is present in the BSA but absent from the project site. There are three CNDDB occurrences within 5 miles of the site, with the most recent from 1985 at the Cal Berkeley's Gill Tract Agricultural Plot.
vernal pool fairy shrimp	*Branchinecta lynchi*	FT/None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats.	**Not expected to occur.** Habitat absent from the BSA and project site.
sandy beach tiger beetle	*Cicindela hirticollis gravida*	None/CNDDB	Inhabits areas adjacent to non-brackish water along the coast of California from San Francisco Bay to northern Mexico.	**Not expected to occur.** Habitat absent from the BSA and project site.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
Antioch efferian robberfly	*Efferia antiochi*	None/CNDDB	Known only from Contra Costa and Fresno Counties.	**Not expected to occur.** Habitat absent from the BSA and project site.
Bay checkerspot butterfly	*Euphydryas editha bayensis*	FT/None	Serpentine or serpentine-like grasslands.	**Not expected to occur.** Habitat absent from the BSA and project site.
Bridges' coast range shoulderband	*Helminthoglypta nickliniana bridgesi*	None/CNDDB	Inhabits open hillsides of Alameda and Contra Costa Counties. Tends to colonize under tall grasses and weeds.	**Low potential to occur**. Marginally suitable grassland habitat is present in the BSA but absent from the project site. Habitat in the BSA is of low quality due to tall grass and weeds. There are no CNDDB occurrences within 5 miles of the site.
Lee's micro-blind harvestman	*Microcina leei*	None/CNDDB	Xeric habitats in the San Francisco Bay region. Found beneath sandstone rocks in open oak grassland.	**Not expected to occur.** Habitat absent from the BSA and project site.
Lum's micro-blind harvestman	*Microcina lumi*	None/CNDDB	Xeric habitats in San Francisco Bay region, beneath serpentine rocks in grassland.	**Not expected to occur.** Habitat absent from the BSA and project site.
Pacific walker	*Pomatiopsis californica*	None/CNDDB	Freshwater	**Not expected to occur.** Habitat absent from the BSA and project site.
mimic tryonia (=California brackishwater snail)	*Tryonia imitator*	None/CNDDB	Inhabits coastal lagoons, estuaries, and saltmarshes, from Sonoma County south to San Diego County	**Not expected to occur.** Habitat absent from the BSA and project site.
Fish				
green sturgeon - southern DPS	*Acipenser medirostris* pop. 1	FT/None	Spawns in deep pools in large, turbulent, freshwater rivers; adults live in oceanic waters, bays, and estuaries	**Not expected to occur.** Habitat absent from the BSA and project site.
Sacramento perch (within native range only)	*Archoplites interruptus*	None/SSC	Historically found in the sloughs, slow-moving rivers, and lakes of the Central Valley	**Not expected to occur.** Habitat absent from the BSA and project site.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
tidewater goby	*Eucyclogobius newberryi*	FE/None	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County, to the mouth of the Smith River	**Not expected to occur.** Habitat absent from the BSA and project site.
Delta smelt	*Hypomesus transpacificus*	FT/SE	Sacramento–San Joaquin Delta; seasonally in Suisun Bay, Carquinez Strait, and San Pablo Bay	**Not expected to occur.** Habitat absent from the BSA and project site.
longfin smelt	*Spirinchus thaleichthys*	FC/ST	Aquatic, estuary	**Not expected to occur.** Habitat absent from the BSA and project site.
Amphibians				
California tiger salamander - central California DPS	*Ambystoma californiense* pop. 1	FT/ST, WL	Annual grassland, valley–foothill hardwood, and valley–foothill riparian habitats; vernal pools, other ephemeral pools, and (uncommonly) along stream courses and man-made pools if predatory fishes are absent	**Not expected to occur.** Habitat absent from the BSA and project site. There are no CNDDB occurrences within 5 miles of the site.
foothill yellow-legged frog - central coast DPS	*Rana boylii* pop. 4	FPT/SE	Rocky streams and rivers with open banks in forest, chaparral, and woodland	**Not expected to occur.** Habitat absent from the BSA and project site. There are five CNDDB occurrences within 5 miles of the site but all are extirpated except for a February 1997 observation of two adults in Lost Valley, approximately 4.2 miles to the southeast.
California red-legged frog	*Rana draytonii*	FT/SSC	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands	**Not expected to occur.** Marginal stream habitat is present in the BSA but absent from the project site. There are no CNDDB occurrences within 1 mile of the site or in any of the watersheds draining west to San Francisco Bay.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
Reptiles				
western pond turtle	*Emys marmorata*	None/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	**Low potential to occur.** Marginal stream habitat is present in the BSA but absent from the project site. Habitat in the BSA is highly disturbed. There are no CNDDB occurrences within 1 mile of the site.
northern California legless lizard	*Anniella pulchra*	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils	**Not expected to occur.** Habitat absent from the BSA and project site.
Alameda whipsnake	*Masticophis lateralis euryxanthus*	FT/ST	Open areas in chaparral and scrub habitat; also adjacent grassland, oak savanna, and woodland	**High potential to occur (BSA)/Not expected to occur (project site).** Grassland and scrub habitat contiguous with a 2008 CNDDB occurrence 0.2 mile to the east (Occ. No. 100) is present in the BSA north of Centennial Drive but habitat is absent from the project site. There are two other CNDDB occurrences within 1 mile of the site. Species not expected to occur on project site due to lack of habitat and high amount of human disturbance.
Birds				
cackling (=Aleutian Canada) goose (wintering)	*Branta hutchinsii leucopareia*	None/WL	Winters in lacustrine, fresh emergent wetlands, and moist grasslands, croplands, pastures, and meadows	**Not expected to occur.** The site is outside the species' known range.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
double-crested cormorant (nesting colony)	*Nannopterum auritum*	None/WL	Nests in riparian trees near ponds, lakes, artificial impoundments, slow-moving rivers, lagoons, estuaries, and open coastlines; winter habitat includes lakes, rivers, and coastal areas	**Not expected to occur.** Habitat absent from the BSA and project site.
great blue heron (nesting colony)	*Ardea herodias*	None/CNDDB	Nests in large trees or snags; forages in wetlands, water bodies, watercourses, and opportunistically in uplands, including pasture and croplands	**Not expected to occur.** Habitat absent from the BSA and project site.
snowy egret (nesting colony)	*Egretta thula*	None/CNDDB	Nests in dense marshes and trees; forages in wetlands or aquatic habitats, including estuaries, emergent wetlands, slow-moving rivers, irrigation ditches, and wet fields	**Not expected to occur.** Habitat absent from the BSA and project site.
black-crowned night-heron (nesting colony)	*Nycticorax nycticorax*	None/CNDDB	Nests in dense-foliaged trees and dense fresh or brackish emergent wetlands associated with marshes, ponds, reservoirs, and estuaries	**Not expected to occur.** Habitat absent from the BSA and project site.
Cooper's hawk (nesting)	*Accipiter cooperii*	None/WL	Nests and forages in dense stands of live oak, riparian woodlands, or other woodland habitats often near water	**Moderate potential to occur**. Woodland habitat is present in the BSA and trees in project site could support nesting. There is one CNDDB occurrence within 5 miles of the site, about 3.5 miles to the south from 1993. Observed regularly (October 2022) approximately 0.4 mile east of the stie at Strawberry Canyon (eBird 2022).
sharp-shinned hawk (nesting)	*Accipiter striatus*	None/WL	Nests in coniferous forests, ponderosa pine, black oak, riparian deciduous, mixed conifer, Jeffrey pine; winters in	**Not expected to occur**. The site is outside the species' known breeding range. Known to winter in the region, including several

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
			lowland woodlands and other habitats. Prefers riparian habitats.	occurrences approximately 0.5 mile northwest of the site at UC Berkeley Botanic Garden (eBird 2022).
golden eagle	*Aquila chrysaetos*	BGEPA/FP, WL	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	**Not expected to occur**. Potentially suitable shrubland and grassland foraging habitat is present in the BSA but nesting habitat (large trees or cliffs) is absent from the BSA and project site. There is one CNDDB occurrence within 5 miles of the site at the Sibley Volcanic Preserve, about 3.5 miles to the south.
northern harrier (nesting)	*Circus hudsonius*	BCC/SSC	Nests in open wetlands (marshy meadows, wet lightly grazed pastures, old fields, freshwater and brackish marshes); also in drier habitats (grassland and grain fields); forages in grassland, scrubs, rangelands, emergent wetlands, and other open habitats.	**Not expected to occur.** Marginal foraging habitat is present in the BSA but absent from the project site; nesting habitat is absent from both.
white-tailed kite (nesting)	*Elanus leucurus*	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	**Moderate potential to occur**. The BSA and project site support suitable nesting and foraging habitat. There is one CNDDB occurrence within 5 miles of the site, approximately 3 miles to the west at the Berkely Harbor in 2001.
American peregrine falcon (nesting)	*Falco peregrinus anatum*	None/FP	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nests on cliffs, buildings, and bridges; forages in wetlands, riparian, meadows,	**Not expected to occur (nesting)**. Nesting habitat absent from the BSA and project site. Known to nest atop Campanile on UCB campus approx. 0.6 west of site

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
			croplands, especially where waterfowl are present. Nest consists of a scrape or a depression or ledge in an open site.	(Kell 2022); adults from this pair may occasionally fly or forage over site.
bald eagle	*Haliaeetus leucocephalus*	BGEPA/FP, SE	Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains	**Not expected to occur.** Habitat absent from the BSA and project site.
yellow rail	*Coturnicops noveboracensis*	BCC/SSC	Nesting requires wet marsh/sedge meadows or coastal marshes with wet soil and shallow, standing water	**Not expected to occur.** Habitat absent from the BSA and project site.
California black rail	*Laterallus jamaicensis coturniculus*	None/FP, ST	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	**Not expected to occur.** Habitat absent from the BSA and project site.
California Ridgway's rail	*Rallus obsoletus obsoletus*	FE/FP, SE	Coastal salt or brackish marshes	**Not expected to occur.** Habitat absent from the BSA and project site.
western snowy plover	*Charadrius nivosus nivosus*	FT, BCC/SSC	On coasts nests on sandy marine and estuarine shores; in the interior nests on sandy, barren or sparsely vegetated flats near saline or alkaline lakes, reservoirs, and ponds	**Not expected to occur.** Habitat absent from the BSA and project site.
Caspian tern (nesting colony)	*Hydroprogne caspia*	None/CNDDB	Coastal estuarine, saltmarsh, and barrier islands; nests on islands in rivers and salt lakes	**Not expected to occur.** Habitat absent from the BSA and project site.
black skimmer (nesting colony)	*Rynchops niger*	BCC/SSC	Nests on barrier beaches, shell banks, spoil islands, and saltmarsh; forages over open water; roosts on sandy beaches and gravel bars	**Not expected to occur.** Habitat absent from the BSA and project site.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
California least tern	*Sternula antillarum browni*	FE/FP, SE	Forages in shallow estuaries and lagoons; nests on sandy beaches or exposed tidal flats	**Not expected to occur.** Habitat absent from the BSA and project site.
burrowing owl	*Athene cunicularia*	BCC/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	**Low potential to occur**. Marginal habitat is present in the BSA but absent from the project site due to the absence of ground squirrel burrows. There are no CNDDB occurrences within 5 miles of the site but there are several wintering records along the Berkeley shoreline, including a December 2021 observation at Aquatic Park, approximately 3 miles to the southwest (eBird 2022).
olive-sided flycatcher (nesting)	*Contopus cooperi*	BCC/SSC	Nests in mixed-conifer, montane hardwood–conifer, Douglas-fir, redwood, red fir, and lodgepole pine habitats. Most often associated with forest openings, forest edges near natural or human-made openings, or open to semi open forest stands.	**Moderate potential to occur.** Marginal woodland habitat is present in the BSA but absent from the project site. There are no CNDDB occurrences within 5 miles of the site but approximately 23 eBird locations within 1 mile at which the species has been observed between April and August in the last 10 years (eBird 2022).
Suisun song sparrow (nesting)	*Melospiza melodia maxillaris*	None/SSC	Nests and forages in tidal salt and brackish marsh	**Not expected to occur.** Habitat absent from the BSA and project site.
Alameda song sparrow (nesting)	*Melospiza melodia pusillula*	BCC/SSC	Nests and forages in tidal saltmarsh	**Not expected to occur.** Habitat absent from the BSA and project site.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
San Pablo song sparrow (nesting)	*Melospiza melodia samuelis*	BCC/SSC	Nests and forages in tidal and muted tidal saltmarsh	**Not expected to occur.** Habitat absent from the BSA and project site.
saltmarsh common yellowthroat (nesting)	*Geothlypis trichas sinuosa*	BCC/SSC	Nests and forages in emergent wetlands including woody swamp, brackish marsh, and freshwater marsh	**Not expected to occur.** Habitat absent from the BSA and project site.
yellow-headed blackbird (nesting)	*Xanthocephalus xanthocephalus*	None/SSC	Nests in marshes with tall emergent vegetation, often along borders of lakes and ponds; forages in emergent wetlands, open areas, croplands, and muddy shores of lacustrine habitat	**Not expected to occur.** Habitat absent from the BSA and project site.
yellow warbler (nesting)	*Setophaga petechia*	None/SSC	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	**Not expected to occur.** Habitat absent from the BSA and project site.
Mammals				
salt-marsh wandering shrew	*Sorex vagrans halicoetes*	None/SSC	Saltmarsh inundated daily by tidal waters	**Not expected to occur.** Habitat absent from the BSA and project site.
Alameda Island mole	*Scapanus latimanus parvus*	None/SSC	Confined to Alameda Island; variety of habitats including annual and perennial grasslands	**Not expected to occur.** Habitat absent from the BSA and project site.
pallid bat	*Antrozous pallidus*	None/SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees. Very sensitive to disturbance of roosting sites.	**Moderate potential to occur.** Suitable roosting habitat is present in the BSA (woodland) and project site (structures). Existing human disturbance levels likely preclude presence. There is one historic CNDDB occurrence within 1 mile of the site from 1945, approximately 0.5 mile to the west.

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
Townsend's big-eared bat	*Corynorhinus townsendii*	None/SSC	Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, man-made structures, and tunnels	**Low potential to occur**. Marginal roosting habitat is present in the BSA (woodland) and project site (structures). Existing human disturbance levels likely preclude presence. There is one historic CNDDB occurrence within 5 miles of the site from 1938, approximately 0.75 mile to the northeast.
silver-haired bat	*Lasionycteris noctivagans*	None/CNDDB	Old-growth forest, maternity roosts in trees, large snags 50 feet aboveground; hibernates in hollow trees, rock crevices, buildings, mines, caves, and under sloughing bark; forages in or near coniferous or mixed deciduous forest, stream or river drainages	**Not expected to occur.** Habitat absent from the BSA and project site.
western red bat	*Lasiurus blossevillii*	None/SSC	Roosts primarily in trees, typically adjacent to open fields or streams, which are protected above and open below for foraging; prefers habitat edges and mosaics with trees.	**Moderate potential to occur**. Woodland habitat is present in the BSA but absent from the project site. There are no CNDDB occurrences within 5 miles of the site.
hoary bat	*Lasiurus cinereus*	None/CNDDB	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Requires water.	**Moderate potential to occur**. Woodland habitat is present in the BSA but absent from the project site. There is one historic CNDDB occurrence within 1 mile of the site from 1975, approximately 0.25 mile to the west from 1975).
western mastiff bat	*Eumops perotis californicus*	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and	**Low potential to occur**. Marginal woodland roosting habitat is

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
			woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	present in the BSA but absent from the project site. Existing human disturbance levels likely preclude presence.
big free-tailed bat	*Nyctinomops macrotis*	None/SSC	Low-lying arid areas in Southern California. Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	**Not expected to occur.** The site is outside the species' known range.
San Pablo vole	*Microtus californicus sanpabloensis*	None/SSC	Saltmarshes of San Pablo Creek	**Not expected to occur.** Habitat absent from the BSA and project site.
San Francisco dusky-footed woodrat	*Neotoma fuscipes annectens*	None/SSC	Forest habitats with a moderate canopy and moderate to dense understory	**Known to occur.** Two stick houses were observed in the southeastern portion of the project site during 2022 surveys. Higher quality habitat occurs in the oak-bay woodland to the south.
salt-marsh harvest mouse	*Reithrodontomys raviventris*	FE/FP, SE	Saline emergent wetlands, preference for pickleweed saline emergent wetlands; also uses adjacent grasslands	**Not expected to occur.** Habitat absent from the BSA and project site.
puma	*Puma concolor*	None/SCE	Scrub, chaparral, riparian, woodland, and forest; rests in rocky areas and on cliffs and ledges that provide cover; most abundant in riparian areas and brushy stages of most habitats throughout California, except deserts	**Moderate potential to occur**. Suitable movement habitat in the BSA and project site. There are no CNDDB occurrences within 5 miles of the site but UCB scientists and volunteers have recorded this species in Strawberry Canyon (McBride 2007).

Common Name	Scientific Name	Status (Federal/ State)	Habitat	Potential to Occur in Biological Study Area (BSA)
American badger	*Taxidea taxus*	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	**Low potential to occur.** Suitable grassland and scrub habitat is present in the BSA but absent from the project site. There is one historic CNDDB occurrence from 1925 within 5 miles of the site, approximately 3.5 miles to the east.

Sources: CDFW 2022; eBird 2022; Kell 2022; McBride 2007
Notes:
Status Abbreviations
FE: Federally listed as endangered
FT: Federally listed as threatened
PFT: Federally proposed for listing as threatened
BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern
BGEPA: Protected under Bald and Golden Eagle Protection Act
SE: State listed as endangered
ST: State listed as threatened
SCE: State candidate for listing as endangered
SSC: California Department of Fish and Wildlife (CDFW) Species of Special Concern
FP: CDFW Fully Protected Species
WL: CDFW Watch List Species
CNDDB: Tracked by CDFW's California Natural Diversity Database (CNDDB) (i.e., on Special Animals List) but no other status.

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APPENDIX F

Cultural Resources Records

NPS Form 10-900
(Oct.1990)

OMB No. 1024-0018

424

RECEIVED 2280
APR 7 2005

United States Department of the Interior
National Park Service

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Panoramic Hill

other names/site number University Terrace, University Hill

2. Location

street & number Panoramic Wy,Canyon Rd,Mosswood, Orchard Ln, Arden Rd. ☐ not for publication

city or town Berkeley ☐ vicinity

state California code CA county Alameda code 001 zip code 94704

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this ☒ nomination ☐ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ☒ meets ☐ does not meet the National Register Criteria. I recommend that this property be considered significant ☐ nationally ☐ statewide ☒ locally. (☐ See continuation sheet for additional comments.)

Signature of certifying official/Title — Date: 28 MARCH 2005

California Office of Historic Preservation
State or Federal agency and bureau

In my opinion, the property ☐ meets ☐ does not meet the National Register criteria. (☐ See continuation sheet for additional comments.)

Signature of commenting or other official — Date

State or Federal agency and bureau

4. National Park Service Certification

I hereby certify that this property is:

☒ entered in the National Register
☐ See continuation sheet.
☐ determined eligible for the National Register
☐ See continuation sheet.
☐ determined not eligible for the National Register
☐ removed from the National Register
☐ other (explain): _____

Signature of the Keeper — Date of Action: 10/21/05

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NATIONAL REGISTER OF HISTORIC PLACES
NATIONAL PARK SERVICE

5. Classification

Ownership of Property
(Check as many boxes as apply)

- ☒ private
- ☒ public-local
- ☐ public-State
- ☐ public-Federal

Category of Property
(Check only one box)

- ☐ building(s)
- ☒ district
- ☐ site
- ☐ structure
- ☐ object

Number of Resources within Property
(Do not include previously listed resources in the count.)

Contributing	Noncontributing	
61	18	buildings
		sites
14 (roads, paths,walls) 1 (wall)		structures
1 (fountain)		objects
76	19	Total

Name of related multiple property listing
(Enter "N/A" if property is not part of a multiple property listing.)

N/A

Number of contributing resources previously listed in the National Register

6. Function or Use

Historic Functions
(Enter categories from instructions)

Domestic – single and multiple dwellings

Current Functions
(Enter categories from instructions)

Domestic – single and multiple dwellings

7. Description

Architectural Classification
(Enter categories from instructions)

Shingle; Bungalow/Craftsman; Mission/Spanish
Colonial Revival; Beaux-Arts

Materials
(Enter categories from instructions)

foundation Earth, concrete
roof Shingle; Terra Cotta; Concrete
walls Shingle; Brick; Granite; Stucco; Concrete; Fabricrete
other Brick; Iron; Copper; Ceramic Tile; Glass; Concrete; Fabricrete

Narrative Description
(Describe the historic and current condition of the property on one or more continuation sheets.)

See Continuation Sheets

Panoramic Hill Historic District
Alameda County, California

NEIGHBORHOOD CHARACTER

The Panoramic Hill Historic District is a woodsy, hillside residential neighborhood consisting primarily of single-family detached houses built primarily from 1901 through the 1940s in various stages and manifestations of the Bay Area Tradition. Whereas the proposed district is located in Berkeley, California, part of the hillside neighborhood is in Oakland. The Berkeley section is in the lower elevations and where early development occurred.

The hill itself is geographically distinguished by Strawberry Canyon to the north and Hamilton Gulch to the south. In this way, the hill's borders, and also the neighborhood's boundaries, are naturally articulated. Situated in the East Bay Hills, the hillside's predominant orientation is west.

The neighborhood is uphill, within walking distance, and east of what is now known as the University of California at Berkeley's Central Campus. The western face of this hillside neighborhood orients to the panoramic views of the San Francisco Bay, the Golden Gate, Mt. Tamalpais, and to historically significant University structures, e.g. the Campanile. The northern face of the Panoramic Hill neighborhood looks across Strawberry Canyon to another hill where the Lawrence Berkeley National Laboratory and the University's Hill Campus are also located. The Hill Campus includes the Witter Intercollegiate Rugby Field, the Levine-Fricke Intercollegiate Softball Field, and the Strawberry Canyon Recreation Area, which are located at the base of the Panoramic Hill neighborhood, and undeveloped open space known as the Ecological Study Area, which is located to the east of the neighborhood. The northwestern face of the neighborhood orients to the California Memorial Stadium.

To the immediate west of the Panoramic Hill neighborhood is housing zoned for multiple units. With the college campus nearby, many of these dwellings are sororities, fraternities, and co-ops. To the southwest of the neighborhood is historic Hillside Court and Hillside Avenue, which is zoned for single-family use.

At the time of the neighborhood's beginning, the floor of Strawberry Canyon was known as Strawberry Valley, and Strawberry Creek flowed through the canyon above ground. Then, a "beautiful natural place"[i] , the creek has since been culverted and the ravine filled. The University's Botanical Gardens were also in the vicinity[ii] . The properties located at 1, 9, and 15 Canyon Road were sited so as to benefit from these amenities as much as for the panoramic views. Despite the absence of the creek and the botanical gardens in contemporary times, the structures stand as a reminder of the neighborhood's early relationship between natural and built environments.

In general, contributing houses in the district are as unique as the sites upon which they were built because each house is custom-designed for the peculiarities of the hilly topography. Although some houses are stucco and others a patented concrete known as Fabricrete, most of the houses are clad in still unpainted and unstained wood shingles. Natural building materials, e.g. redwood, are glorified, albeit modestly, in these houses and serve both functional and aesthetic purposes. The relationship between indoors and out-of-doors is evident in expansive window elements granting bay and/or canyon views, numerous west facing and/or north facing balconies, and the prevalence of outdoor rooms, e.g. patios and porches, juxtaposed against living rooms, dining rooms, and sleeping quarters.

The district includes 79 buildings, of which more than 60 contribute. The vast majority were single-family dwellings (and ancillary structures) at the time of their construction although two apartment buildings were built in the neighborhood during the early 1900s. Today the district is zoned single-family although there are numerous exceptions. Many single-family homes have secondary units and in other cases what were originally single-family houses have been divided up into several living units.

The area was developed before the road was macadamized and before the automobile was the preferred and common mode of transportation. There is only one road into the neighborhood, Panoramic Way, and it is narrow and switches back and forth like good hiking trails cut for steep terrain. The road follows the contour of the hill rather than the hill being shaped and cut out to conform to the structure. Off of this one road are three streets, i.e. Canyon Road, Mosswood Road, and Arden Road, which also come to dead ends and which are within the district boundaries. An extension of Panoramic Way dead ends at the first switchback, but this more recently built area is not included in the district. Panoramic Way also continues up the hill beyond the boundaries of the district.

Pedestrian pathways are characteristic of the neighborhood. The most elaborate is a public pedestrian thoroughfare built in a classical Beaux-Arts style known as Orchard Lane. Other public pathways include Mosswood Lane and Arden Steps. Given the meandering route of Panoramic Way, the several arterial pedestrian paths facilitate more efficient foot travel.

Several houses have their main entrances off of these public pedestrian thoroughfares, e.g. 1 and 3 Orchard Lane, and 101 and 107 Panoramic Way. In addition to public pathways, there are also numerous jointly-owned private walkways, e.g. the concrete walkway shared by 5-11 Panoramic Way, 23 Panoramic Way, and 73, 75, and 77 Panoramic Way.

After the road was macadamized and the automobile popularized, numerous garages were built. Several have apartments built above them, e.g. a combination concrete garage and brown shingled apartment at both 1 Panoramic Way and 14 Mosswood Road. In the case of 6 Mosswood Road, both the garage and apartment were built of concrete. In another instance a two-story house was built above a two-car garage, e.g. 101 Panoramic Way. Garages were also sometimes built into retaining walls, e.g. 15 Canyon Road.

Although some fences have been added over the years, there are several clusters of houses where properties blend with little evidence of where one highly irregular lot begins and the other ends. For example the back yards of 67 Canyon Road and 37 Mosswood Road and the side yard of 29 Mosswood Road and 37 Mosswood Road are spacious, open, unfenced and an appropriate transition to the undeveloped University land to the immediate east.

There are numerous retaining walls, one of which is interrupted or cut out for a staircase and concrete fish pond (at 72 Panoramic Way). The sculpted spout is used to direct water drained from the natural underground springs. To this day water seeps from the adjacent retaining wall. A tall concrete retaining wall, with tapered pillars on top and with a trellis on top of the pillars, curves around the northwest base of the district at 15 Canyon Road. On Arden Road a privately owned retaining wall at the entrance of 100 Arden Road is made entirely of clinker brick. A concrete retaining wall at the second hairpin between 101 and 107 Panoramic Way on the uphill side is broken up by the upper extension of Orchard Lane. The concrete retaining wall on the downhill side of Panoramic Way at the second hairpin creates just enough space for the niche upon which 74 Panoramic Way is built. In these various ways, the hillside development of houses, retaining walls, streets, fountains, and fences is in tune with nature.

PUBLIC INFRASTRUCTURE

Panoramic Way, a steep and narrow road that switches back and forth at sharp angles through the Panoramic Hill neighborhood, up the hill to the Oakland border and beyond, was carved out in 1888 by Charles A. Bailey as he developed University Terrace. So perilous was the dirt road that, as late as 1917, only one hill resident owned a car; even horses were apt to stumble as they tried to navigate the sharp turns. Though the road was never properly graded, it was eventually paved, and though discussions to create a second access road took place, Panoramic Way has retained its original form and remains the only access road to the Panoramic Hill neighborhood.[iii]

Canyon Road was spelled Cañon Road on a 1910 map of the University Hill subdivision, the spelling being a reflection of the Spanish heritage of the Peralta tract that predated existing development. Before University Hill was developed, the same road was shown on University Terrace subdivision maps in 1888 but without a street name. Before University Terrace was developed, the same road could be seen on Boardman's 1868 map of the Berkeley Property Tract but without a street name. The road itself is flat unlike every other road on Panoramic Hill, joins Panoramic Way at its entrance to the neighborhood, extends around to the canyon side of the hill, passes the adjacent California Memorial Stadium, and ends in a substandard cul-de-sac. A map of Strawberry Valley in 1875 shows the same road extending into the canyon.[iv]

Mosswood Road begins at the second hairpin turn on Panoramic Way, curves around the hillside, runs parallel to Canyon Road, and ends in a substandard cul-de-sac on the north facing side of the hill. The University's Ecological Study Area can be accessed from Mosswood Road as the street borders the undeveloped area, which is coastal live oaks, bay trees, and native ferns in this particular

ecosystem. From Mosswood Road, a footpath has been worn from human traffic and goes downhill to the Strawberry Canyon Recreation Area and uphill to the Lower Jordan Fire Trail. The road was laid out by Warren Cheney in 1910 for the University Hill subdivision.

Arden Road begins on Panoramic Way and ends in a cul-de-sac just uphill of Mosswood Road. The road was laid out by Warren Cheney for the University Hill subdivision in 1910.

Orchard Lane is a public pedestrian path developed by Warren Cheney in 1910 as part of his University Hill subdivision. Designed by Henry Atkins, the classical Beaux-Arts concrete staircase connects the beginning of Panoramic Way to Panoramic Way at the second hairpin. A more simplified version of Orchard Lane picks up at the second hairpin and connects to Arden Road. The beginning of Orchard Lane is graced with corner piers which were originally topped with urns but have since been lost to vandals. The pathway is lined with poplar trees planted by architect Walter Steilberg when he lived at 1 Orchard Lane. The pedestrian pathway curves up the hill and is defined by balustrades. Each landing benefits from a concrete bench and becomes a place to linger. Whereas the lower section of Orchard Lane is adorned with benches, balustrades, and corner piers, the second section of Orchard Lane is an unadorned concrete stairway with numerous landings. Several houses "front" on both upper and lower sections of Orchard Lane, including (but not limited to) 1 and 3 Orchard Lane and 101 and 107 Panoramic Way. Orchard Lane is not only an arterial pedestrian corridor stairway for movement within the neighborhood but also a visual link to the Bancroft Steps downhill of the neighborhood, also designed by Henry Atkins, and ultimately a practical route to Piedmont Way and the University. Orchard Lane was made a City Landmark in 1991.

Arden Steps is a steep concrete staircase of 100 steps connecting Mosswood Road to the cul-de-sac at Arden Road, which is where Arden Path begins, and extends to Panoramic Way at the upper reaches. This public staircase was part of the University Hill development, and in 1915 a house was built at 38 Mosswood with the main entrance off of Arden Steps. The staircase has a utilitarian design consisting of a retaining wall and galvanized steel railing on its east side, a curb on the west side, and two small landings along its length.

Mosswood Lane was named Stockade Lane when University Hill was first subdivided in 1910. However, in 1922 when Walter Steilberg built a Fabricrete cottage fronting on the footpath, he renamed the public thoroughfare. Whereas Orchard Lane is formal in design, and whereas Arden Steps is a steep climb, Mosswood Lane is an unimproved path with gentle slope and curvature. Boy Scouts reinforced the integrity of the path with railroad ties (circa 2000), and gravel was laid on the lower elevations during a garden tour (circa 2001) but otherwise the path remains unchanged. The path is lined with redwood trees on one side with fallen redwood needle-like leaves softening the footpath itself. The homes that flank each side of the path are the rear yards and back sides of historic and architecturally important dwellings including two by Julia Morgan and two by Ernest Coxhead and one by Frank Lloyd Wright. The curved retaining wall of a Beaux-Arts terrace at 3 Orchard Lane also backs up to Mosswood Lane and was designed by Bernard Maybeck although the retaining wall is now covered by overgrown ivy.

PRIVATE DEVELOPMENT

1. 1 Panoramic Way – TWO CONTRIBUTING: cottage and garage - combination; playhouse pergola and garage combination (a)

Year built: 1921; 1931
Architect: Steilberg, Walter
Original owner: Steilberg, Walter

This small three-room brown shingle cottage sits above a two car concrete garage at the base of Walter Steilberg's family home. The redwood garage doors with decorative cut-outs are hinged and roll along a metal track inside the garage. A bay window with decorative mullions on the western elevation once opened to panoramic views of the bay. Exterior decorative details include Chinese perforated tiles that also serve as vents. Indoor and outdoor relationships strengthened with a Dutch door at the south elevation which opens onto a wide brick walkway and pergola that runs parallel to Panoramic Way until it meets a brown shingle playhouse with amber glass in windows at the end. The playhouse has a low-pitch gable roof with an 18 lite picture window with centered decorative medallion. Supporting the walkway and pergola is a concrete retaining wall with a built-in garage constructed in 1931.

2. 5, 7, 9, 11 Panoramic Way - ONE CONTRIBUTING: apartment building

Year built: 1912
Architect: Morgan, Julia
Original owner: Price, Clifton

"This two-story and basement apartment building is designed around an interior court on a hillside where the views, and hence the fenestration, are of major importance. Upstairs, a large bay over the arched entrance is flanked by groups of 4 windows together, then another bay at each end. On the first floor the large banks of windows at the corners have balustrades that repeat the design of the front of the central arch, and suggest balconies without breaking up the masses. Brick steps lead up to a small terrace from an entrance at one side. There is a suggestion of half-timbering, not used in a medieval sense as much as for design element to emphasize the windows. The central lower façade is indented, with the plain supports creating pattern interest."[v] The half-timbering has been painted off-white, the color of the stucco, and is not original. Part of the front lawn, the hedge, and retaining wall were removed in 1995 to make way for a parking pad for residents and guests' vehicles. A trellis covers. The change does not negatively impact the integrity of the structure.

3. 18, 20, 22, 24 Panoramic Way – TWO CONTRIBUTING: house; [20, 22, 24 PWay]
house (a) [18 PWay]

Year built: between 1911 and 1921[vi]
Architect: unknown[vii]
Original owner: unknown

This fourplex is made from two separate buildings which have been physically joined. Both buildings have very shallow street setbacks and appear as one story on the street side but are multi-story from the rear. One of the buildings (18) is stucco whereas the other (20, 22, 24) is clad in brown shingles. The stucco building has an arched entry way that is flanked by small six- lite casement windows. A projecting bay window to the north sits atop a below street-level garage. The garage has side-hinged doors. The wood shingle building is L-shaped with a complicated front gable roof with exposed rafter tails. Three gently pitched parallel gables recede from back to front. The house has a side main entrance. A cantilevered porch wraps from the south side to the western exposure with scroll sawn Swiss chalet inspired balcony railing. A pair of off-center double-hung sash windows and an ornamental leaded glass casement window with Craftsman inspired window frames adorn the simple front façade.

4. 23 Panoramic Way – ONE CONTRIBUTING: house
NON-CONTRIBUTING: detached garage rehabilitated 1987 (a)

Year built: 1901
Architect: Maybeck, Bernard
Original owner: Boke, George H.

This two story wood frame home on a concrete foundation with a shallow gabled roof, wide overhanging eaves with exposed rafter tails is sheathed on the first floor with horizontal redwood boards and on the second with vertical boards overlaid by horizontal boards, creating a kind of half-timbering effect. The roofline of the front façade is interrupted by a large dormer with a sweeping gable containing four wood casement windows with single lites. The exterior was originally oiled but has since been stained a brownish color to preserve the wood from sun damage while blending in with the environment. The house was originally designed without a roof over the front porch, but early photos show the roof was added long ago. One enters the house via a half-level below the main floor. The living room windows, originally three pairs of casements with a single horizontal division, were replaced by fixed sheets of glass by the second owner, and then returned to the original fixed pane windows by the third and current owners[viii] . These three large windows occupy the west elevation first floor, while four smaller casement windows occupy the dormer directly. The view is oriented toward the San Francisco Bay. The shallow gable roof, wide overhanging eaves, carved balustrades, and cross-log corners all add to the chalet feeling. Board balusters hand sawn in a Swiss motif ornament a sleeping porch on the eastern exposed second story. Posts have been added underneath to support the sleeping porch. The original wood shingle roof has been replaced with a

composition shingle roof of similar character. One of the most innovative features is the continuous L-shaped space that connects the living and dining room, presaging more modernist dwellings.

A three car garage located uphill behind the home is accessed by Panoramic Way as it winds to its second switchback (across from and below 74 Panoramic Way). The garage is true to the original style of the Boke House with its shallow gabled roof and its stained cedar shakes. It is one story on the street level and two stories from the backyard level of the Boke House with storage on the first or backyard level. Five single lite casement windows open the garage to bay views.

5. 25 Panoramic Way – TWO CONTRIBUTING: house;
detached garage (a)

Year house built: 1908
Designer/builder: Broad, A.H.
Year garage built: 1926
Original owner: Deane, Margaret

This two story single-family dwelling with side gabled roof has an exterior clad in unpainted and unstained redwood shingles. A side entrance porch with projecting gable mimics the Boke House next door. A projecting bay on the southwest façade contains four sash windows, and two flat projecting bays on the second story each contain a pair of sash windows. Because the house is built near the first hairpin turn on Panoramic Way, the house fronts on Panoramic Way while the garage at the rear of the house also has access from Panoramic Way. The two car garage is brown shingles and has a shallow gabled roof. The structure is enhanced by two square windows each containing four square lites on the western wall opening the garage to SF Bay and Golden Gate views.

6. 27 Panoramic Way – ONE CONTRIBUTING: house

Year built: 1903
Designer/builder: Hoover, Edgor
Original owner: Lewis, Exum Percival

This two and one half story simple rectangular brown shingle single-family dwelling with side gable moderately pitched roof and overhanging eaves was built on what remains of a brick cistern used to hold water for the University in its early days.[ix] The front entry is from a shed roofed porch which projects from the northwestern façade. Situated between an uphill and downhill section of Panoramic Way, the house is two stories from below, facing the bay. From above and behind, the house is one story and appears to be a very small cottage shallowly set back from Panoramic Way after the first hairpin turn. Fenestration on the eastern façade consists of a pair of small, vertically elongated wood-frame sash windows. A pair of multi-lite French doors dominates the southern exposure. The front western exposure is no longer visible to the passerby, due to the lush vegetation grown up and around the structure.

7. 30 Panoramic Way – NON-CONTRIBUTING: house – extensive alterations

8. 32 Panoramic Way - NON-CONTRIBUTING: house – extensive alterations

9. 36 Panoramic Way – ONE CONTRIBUTING: house

Year built: 1908
Designer/builder: May, Frank M.
Original owner: Buckham, J. W.

This two-story hillside house mimics the imagery of a chalet with features such as scroll sawn balcony, vertical wood siding, and carved ornamentation, all of which are similar to the well-known Boke House at 23 Panoramic Way. The shallow side-gable roof is complicated on both north and south sides by three shed dormers 'perforating' the roofline at the eave and supported by wooden side-brackets flanking each sash window. Built on the downhill side of Panoramic Way, a terrace and balcony face into the hillside. The approach is from the northeast where the kitchen entrance is most obvious and under a small shed roof. Exposed beams support the gently sloping shed roof. The main entrance to the southeast is accessed by way of a gable roofed entry porch. The combination half-timber and board-and-batten exterior is now painted cream with green trim.

10. 38 Panoramic Way – ONE CONTRIBUTING: house and garage combination

Year built: 1917
Architect: Steilberg, Walter
Original owner: Steilberg, Walter

This three story stucco presents a half story façade to the street and steps down the hill to become three stories on the western elevation. The roof is a series of low-raking gables which widely overhang the walls of this asymmetrical cruciform floor plan. The end beams are finished in scroll sawn carving. The entrance is recessed with woodcarvings around the front door. Massive stucco-faced chimney pierces the roof at the south with a pitched chimney cap. Twin front facing gables project on the front northern exposure; one houses a narrow single-car garage while the other a large segmented arch window of leaded, opaque, colored glass. Steilberg's first wife Rowena crafted the wood carvings around the entry door and was responsible for the sculptural detail on all of his early buildings.

11. 59 & 61 Panoramic Way (formerly 69 & 71) – TWO CONTRIBUTING: house; detached garage (a)

Year built: 1928-1929
Architect: Steilberg, Walter
Original owner: Atkinson, Florence
Architect: Moise, Howard

A two story, single family, wood shingle clad structure with a low-raking gable roof, broad eaves and projecting end beams atop a concrete foundation, follows an L-shaped plan. The home was built into a triangular lot inside the first hair-pin turn on Panoramic Way, with a very shallow setback on the uphill side and nestled in among redwood trees. Steilberg composed the home to conform to the setting so that the southern wall is angled away from what is now a tree stump but would have been a mature tree when the house was designed. On the western facade a second redwood was used in place of a decorative pillar holding up a trellis over the half round portico containing a rooftop terrace. A stone retaining wall combines with a concrete retaining wall covered with wooden lattice curved to follow the contour of the hillside. Above the retaining wall is a terrace. A pergola gateway with wooden columns, tapering from bottom to top with hand carved cross braces, marks the entrance from the eastern side. The second story was designed in 1954 by architect Howard Moise although visual inspection does not reveal where the addition begins and ends. The house was later subdivided into two apartments with the entryway to one apartment on the eastern (uphill) side of the lot. The entryway is inset with a substantial wooden lintel where the original street number (#71) is carved. To the left of the entry is a window screened by six green glazed perforated Oriental tiles. Additional fenestration includes two-lite casement windows placed asymmetrically. A north-east corner window configuration groups three windows per side separated by natural redwood vertical supports and two incised horizontal bands at the top. A large, mullioned bay window dominates the south-facing elevation. A red brick chimney is prominent on the northwest elevation. A single-car wood frame garage is wedged into the narrowest part of the lot at Panoramic Way's first hairpin turn. Lattice work overlapping in squares atop wood siding gives the garage the appearance of an over-sized Japanese jewel box; the effect is enhanced by ochre glazed perforated Oriental tiles on the eastern side and similar tiles glazed "Steilberg-green" on the western side.

12. 60 Panoramic Way – TWO CONTRIBUTING: house
retaining wall (a)

Year built: 1913
Contractor: Rowe, Henry
Original owner: Moore, William J.

This two and one half story single-family dwelling is built on the uphill side of Panoramic Way near the first hairpin turn. The exterior is clad in natural wood shingle and topped by a front gabled roof with overhanging eaves which are supported by exposed roof beams. The chimney is clinker brick. On the first story of the western façade is a square bay with three double-hung windows consisting of multiple lites and an inset entry porch. The front door has a vertical inset panel flanked by side lites of diamond-paned leaded glass. The second story contains a pair of three-sided bay windows under a secondary hip-roof overhang. A stone retaining wall of local volcanic rhyolite about 4 feet in height wraps around the property line at the street, adjoining the retaining wall at 62 Panoramic Way. A flight of steep stone steps leads to the wooden entry porch.

13. 62 Panoramic Way – TWO CONTRIBUTING: house
detached garage (a)

Year built: 1908
Designer/builder: Rowe, Henry
Original owner: McDowell, Mrs. Laura

This two and one half story single-family gable roof house in natural wood shingle is built on the uphill side of Panoramic Way. The west-facing main entrance has been altered with salvaged nineteenth-century double French doors with a large four lite square transom above. The entire entry structure is a half-round two story tower topped by an enclosed balcony. The street level garage is integral to the concrete retaining wall and was structurally reinforced in the early 1990s, but maintains its' integrity. A pair of wooden side-hinged doors open out to the street.

14. 64 Panoramic Way – ONE CONTRIBUTING: house
NON-CONTRIBUTING: garage and apartment – altered (a)

Year built: 1908
Contractor: Rowe, Henry
Original owner: Rountree, Mrs. E.

Two and one half story gabled roof shingle clad house has elaborately bracketed eaves. Built on the uphill side of Panoramic Way, the property is accessed by way of a concrete staircase shared with 66 Panoramic Way. Main entrance to house is on the north side, protected and defined by a gable-roofed open porch. Windows are undivided double-hung sash. A ground floor addition with a deck opening off the main floor is a non-contributing feature. Although constructed as income-property with apartments, it appears to be a single-family dwelling.

15. 65 & 67 Panoramic Way – TWO NON-CONTRIBUTING: house; [65 PWay]
house [67 PWay] -
later construction (c. 1964)

16. 66 Panoramic Way - ONE CONTRIBUTING: house

Year built: 1908
Architects: Morgan, Julia and Hoover, Ira
Original owner: Turner, Elsie Lee

This three story, brown shingled rectangular house sits on a concrete foundation beneath a complicated multi-level side-gabled roof with exposed rafter tails. The original gable roof entry porch has been enclosed. Built on the uphill side of Panoramic Way, the property is accessed by way of a concrete staircase shared with 64 Panoramic Way. Originally, a single family house, it now has

multiple entrances to accommodate four apartments. The main and original entry is on the southside and accessed from the shared concrete landing. The gable entrance into 66 B, has overhanging eaves and support brackets; the brackets are decorated with a distinctive arrow pointing earthward. The second and third story exteriors are clad in stained wood shingles. The first story exterior is clad in clapboard siding with a pair of four-lite casement windows to the north and a pair of large picture windows to the south on the western facade. The second story has a flat bay with a single lite picture window flanked by two – four-lite casements. A long shallow shed dormer with a pair of four-lite casement windows dominates the western roofline on the third story. The dormer is supported by four carved wooden angle brackets. The fundamental contributing features remain intact, while alterations and additions are sympathetic.

17. 70 Panoramic Way – ONE NON-CONTRIBUTING: house – substantial alterations in 1960s

18. 72 Panoramic Way – TWO CONTRIBUTING: studio;
fountain (a)

Year studio built: 1939
Architect: Ratcliff, Robert
Original owner: Ratcliff, Robert
Year fountain built: 1939
Sculptor: Paine, Robert

This small one story two room structure on the uphill side of Panoramic Way was built as a studio by and for architect Robert Ratcliff. The studio is clad in horizontal wood siding with a shed roof. Entry is through a Dutch door with a handcrafted doorknob. A brick chimney is on the back side. Reinforced concrete retaining walls along the steep side of the roadway open to reveal a split level concrete stairway and reinforced concrete railing containing a rectangular fish pond fed a constant supply of fresh water from the mouth/spout of a sculpted Poseidon-like character draining water from a natural spring in the hillside. The architect Walter Steilberg, while being interviewed by the architectural historian Sally Woodbridge, commented, "...it was only through the wisdom of Mr. Paine—Robert Paine, the sculptor, who was the father of Mrs. Robert Ratcliff—that the spring was drained. He made a fountain of it for their house and that, for the time being, put a stop to it. Water ran the year round; if he hadn't done that, we would have had more slides there."[x]

19. 74 Panoramic Way – ONE CONTRIBUTING: house

Year built: 1941-1952
Architect: Ratcliff, Robert
Original owner: Ratcliff, Robert

The low, horizontal lines of this single-family house are created by varnished clapboard siding, a split-level floor plan, and a shallow gable roof. Carefully tucked into a hairpin on Panoramic Way, the downhill side of the house is supported by a retaining wall, which also supports the road cut for

Panoramic Way. The entrance from the downhill side of the second Panoramic Way hairpin is marked with a shallow, concrete urn supported by a base of pressed bricks stacked at cross angles with a garden stairway of the same brick. The house was built in several stages with significant additions in 1952 including a projecting glass stair tower at the south end. A series of six large square picture windows on the western facade is contrasted with minimal window openings on the eastern side. Variation in materials includes a sand-colored pressed brick chimney and a stucco covered chimney. An asymmetrical gable roof gradually becomes symmetrical.

20. 73, 75, 77 Panoramic Way – ONE CONTRIBUTING: apartment building

Year built: 1904
Designer/builder: Broad, A.H.
Original owner: Ford, Jerome C.

This three story rectangular structure with side gable roof on the downhill side of Panoramic Way is actually a three unit apartment building. Each floor of this brown-shingle, Craftsman style structure is a separate apartment with no interconnecting stairway, and each has its own entrance directly to the outdoors. The eastern façade has a small enclosed porch with two stacked shed roofs and a trellis composed of heavy beams and cross-members. Fenestration consists primarily of double-hung sash. Balconies upstairs and down dominate the western façade. A small north facing balcony provides the entry porch for the apartment below. A rustic wooden pulley rigged beside the balcony would have eased the transport of heavy items to the second floor residence. Wood sash windows have been replaced with aluminum but do not significantly diminish the structure's overall integrity.

21. 94 Panoramic Way – ONE CONTRIBUTING: house

Year built: 1917
Owner/designer: Paine, Robert Treat
Original owner: Paine, Robert Treat

This modest yet eclectic bungalow was designed by the sculptor Robert Treat Paine. Paine designed the bungalow with his love of ships in mind and lived here with his wife and two daughters throughout his adult life. The roofline has a delicate camber leaving the impression one is in the bow of a ship. Taking advantage of the cheapest materials, including salvaged wood, Paine used tarpaper for the exterior siding on the first story, alternating with post and beam wood panels. The north side is now sheathed in copper which was a renovation by Ratcliff family members during the past decade. [Paine's daughter Evelyn married Robert Ratcliff, and the bungalow remains in the Paine/Ratcliff family to this day.] A balcony is cantilevered over hand carved outlookers with flat scroll-sawn balustrades on the west side of the cabin. On the second story, the exterior perimeter consists of clapboard siding. A row of nine ribbon windows each with twelve small square lites, open the small 'master' bedroom to the majestic bay views. A second bedroom contains a northern wall of built-in bookshelves and end tables reminiscent of crew quarters in a ship's hold. The corners of the south wall of the upper story are cambered. A balcony at the front (east side) serves as a roof over the

entry while ornamental scrolls on heavy wooden brackets support the balcony. A final feature of this unique home is the bronze door knocker of a sculptor with anvil declaring this the studio of Robert Treat Paine. Attached to the front door made of vertical planks with large metal studs, the doorknocker's existential inscription reads: "The bird of time has but a little way to fly and lo the bird is on the wing."

22. 101 Panoramic Way – ONE CONTRIBUTING: house and garage combination

Year built: 1931
Architect: Steilberg, Walter
Original owner: Ferguson, Mary Vaneveren

This three story Fabricrete single-family dwelling with an intersecting gable terracotta tile roof is located on the uphill side of Panoramic Way. The first story consists of a two-car garage designed with heavy fabric curtains in place of a door. Two stories of living space rise above the garage with the bedroom level below the main living area and entrance. The dwelling faces the Bay with the main entrance on the side accessed from Orchard Lane. On the other side of Orchard Lane is the main entrance of 107 Panoramic Way, and the two dwellings are complementary in Mediterranean and Spanish Revival idioms. The front door is accessed through a covered inset entryway; the low, small portal has a lintel above adorned with decorative scrolling. The heavy Fabricrete interior is remarkable for its barrel-vaulted ceiling in the living room. French doors from the living room open onto a balcony oriented toward the Bay and ornamented with Steilberg's signature, glazed, Oriental, perforated, ceramic tiles. The L-shaped plan with breadth in front has a kitchen wing in the back. Fenestration consists of steel sashes and casements. A three-sided bay on the southwest side has a tile hip roof and amber glass window panes. An addition in 1953 by architect Robert Ratcliff enclosed the north elevation porch and is the only alteration to the house. The addition is complementary although in the Ratcliff vernacular, as illustrated by frameless glass window slides.

23. 107 Panoramic Way – ONE CONTRIBUTING: house and garage combination

Year built: 1926; 1939
Architect: Miller, Chester
First owner: Bortweit, V.F.

This three and one half story single-family dwelling follows an L-shaped plan and borrows from Mediterranean, Pueblo, and Spanish Colonial Revival features including a flat roof with tile-covered eaves and a white stucco exterior. Situated on the uphill side of Panoramic Way, its main entrance is across from 101 Panoramic Way on Orchard Lane. The first story consists of a two-car garage cambered at 45 degree angles to connect the vertical and horizontal elements. Garage doors are tongue and groove and hinged on the side. The west elevation is dominated by an oversized casement window; a huge multi-paned picture window composed of three parts. The center is a vertical piece of unadorned glass flanked by tall narrow mullioned casement windows. The whole

configuration is six panes high. The half story consists of a square penthouse room with pyramidal hip tile roof rising above the main flat roof. A round edge parapet wall simulates adobe construction. Windows have steel sashes of various shapes.

24. 1 Canyon Road – TWO CONTRIBUTING: house;
Beaux-Arts stairway and retaining wall (a)

Year built: 1906
Architect: Coxhead, Ernest
Original owner: Torrey, Frederic

This three-story rectangular single-family dwelling with side-gable roof, overhanging eaves, and natural wood shingles, is built on the uphill side of Canyon Road at the back of its lot. Originally accessed by way of log steps, within several years the entrance stairway was formalized in a Beaux-Arts classical style designed by Henry Atkins in the vernacular of nearby Orchard Lane (see below). The steeply pitched gabled roof is punctuated by three dormers with broad sash windows. Two plain brick chimneys flank each side gable. The first story is dominated by a massive bay window supported by large wood brackets. Originally the front door was sited at the back of the house to maximize vistas of the bay, creek, and the UC Botanical Gardens from the interior. The house has since been reconfigured to accommodate several apartments. The entrance from the back has been relocated to the southern side where there is a large patio and pergola. An open loggia once extended off the dining room to the north. In the 1950's a sleeping porch on the main level was enclosed with double-hung aluminum windows. The exterior from the front is largely intact, and in general, the house retains its integrity.

25. 5 Canyon Road – ONE CONTRIBUTING: (1) garage and cottage combination

Year built: 1935
Architect: Steilberg, Walter
Original owner: Torrey, H.B.

A one-story brown shingle cottage atop a three-car Fabricrete garage was built on the uphill side of Canyon Road with no street setback. The garage is composed of three graceful ivy-covered door-less arches. The second story fenestration consists of three sets of wood windows, including a pair of casements flanked by two bays. The structure has a side-gable low pitched roof with overhanging eaves and a side entrance accessed from the same Beaux-Arts stairway to 1 Canyon Road.

26. 9 Canyon Road – ONE CONTRIBUTING: house;
ONE NON-CONTRIBUTING: detached garage (a) – later construction

Year built: 1908, but extensively remodeled in 1920s
Architect: Morgan, Julia, Ira Hoover, William C. Hays
Architect: William C. Hays

Original owner: Hutchinson, Lincoln

A two story rectangular single-family house with moderately pitched side gable roof; this dwelling was originally built as a brown shingle and redesigned after a fire in the 1920s when a story was added and the structure sheathed in stucco. Three great arches and a three-story tower of small paned windows dominate the west elevation with the former providing support for an open-air terrace above and the latter allowing ample light and views. Built on the uphill side of Canyon Road and at the back of the lot, the house is accessed by the classical concrete stairways shared with 1 Canyon and designed by Henry Atkins.

27. 15 Canyon Road – THREE CONTRIBUTING: house;
detached garage (a)
retaining wall (b)

Year built: 1904
Architect: Coxhead, Ernest
Original owner: Rieber, Charles

This massive three-story brown shingle is located at the base of the Panoramic Hill neighborhood and irregularly shaped to conform to the lateral curve of the hillside. The house was sited so as to afford direct and unimpeded views of the San Francisco Bay and Golden Gate as well as Strawberry Creek and the UC Botanical Gardens through the oversize bay windows. The steeply pitched side gable roof is punctuated by five steeply pitched gable dormers; clinker brick chimneys dominate the north and west elevations. A two story leaded glass window opens the interior staircase to northern light. Windows on the back are double-hung with diamond-paned leaded glass in upper sash. The main entrance is on the back side accessed by a winding brick path through a sheltered garden. A studio and terrace on the northeastern slope face the Bay and Canyon. A concrete retaining wall topped by tapered pillars supporting a trellis surrounds the property, and includes a single car garage cut within. Some superficial changes do not diminish the integrity of the overall structure. Originally single family, the house was subdivided into three units during World War II.

28. 33 Canyon Road - ONE CONTRIBUTING: house

Year built: 1907
Owner/designer: Whitney, Albert[xi]

This single-family L-shaped home is clad in wood shingles under a low slung gable roof of wood shakes atop its original brick foundation. The main entry is from the south west side by way of a brick walkway. The living room forms the L-shape of this structure and appears to be a very old addition to the original rectangular structure. A modest wing with a shed roof on the back of the house has multiple light windows. Other fenestration is mainly composed of expansive casements with six small panes at the top; small eight paned windows near main entrance door; and four ribbon windows at attic level on the northern exposure. Located uphill of and accessible from Canyon Road via a steep

path, the more convenient pedestrian access now that automobiles are used to access the neighborhood, is downhill from Mosswood Road and via Mosswood Lane. From Mosswood the house appears to be a modest one story structure, while the Canyon Road approach presents two and one half stories with panoramic views of Strawberry Canyon and the San Francisco Bay. The property flows to the terraced garden at 15 Canyon Road just below, which is separated by a modest weathered split-rail fence. A wood-framed single panel glass door on the eastside kitchen entrance and some minor window alterations on the eastern side do not negatively impact the overall integrity of the structure.

29. 37 Canyon Road – ONE NON CONTRIBUTING: house - later construction (c. 1969)

30. 39 Canyon Road – ONE NON CONTRIBUTING: house - later construction (c. 1971)

31. 45 Canyon Road - ONE CONTRIBUTING: house and garage combination

Year built: 1924
Architect: Steilberg, Walter
Original owner: O'Connor, Lenore

This small rectangular cottage with shallow street setback was the last of four cottages (see 47, 49, and 51 Canyon Road) built on one lot by owner Lenore O'Connor. Today the cottages are part of a condominium association with the grounds commonly maintained. Built at the base of the hill on a heavily wooded north facing slope and oriented toward Strawberry Canyon, the cottages blend into the site. Although similar in style (e.g. scroll-sawn balconies, combination horizontal siding/redwood shingle), each is unique and sensitive to the idiosyncrasies of individual sites. One unique feature of 45 Canyon Road is the complicated roof which is apparent especially from the perspective of the back and southwestern side where two sides of the roof come together to create an unusual triangular point for what is an otherwise ¼ pitch gable roof. On the rustic exterior, the upper story is shingled whereas the main story is vertical boards with a cornered notch at the bottom of each board. The foundation is reinforced concrete and brick, and the chimney is also brick. Casement windows and a balcony with scroll-sawn railing are some of the features consistent with the other cottages. The garage doors of the two-car garage are paneled with small squares and rectangles and nearly gothic pointed windows, or cut-outs, which are now filled in with opaque material.

32. 47 Canyon Road - ONE CONTRIBUTING: house

Year built: 1927
Designer/builder: Lassing, T.F.
Original owner: O'Connor, Lenore

This cottage sitting at the back of the lot has completely rustic horizontal board siding and no shingles. Balconies, scroll-sawn porch railing, and a gable roof are compatible with details of

neighboring cottages. A small modern addition does not detract from the structure's overall contribution.

33. 49 Canyon Road - ONE CONTRIBUTING: house

Year built: 1908
Designer/builder: Lassing, T.F.
Original owner: O'Connor, Lenore

Built in 1908 at the back of the lot, this cottage has rustic horizontal board siding below and board-and-batten above with all siding left alone, unpainted, weathered, and natural. Casement windows have small panels in a square plane. A penthouse story has interesting gable roof.

34. 51 Canyon Road - ONE CONTRIBUTING: house and garage combination

Year built: 1924
Architect: Steilberg, Walter
Original owner: O'Connor, Lenore

Built at the front of the lot with shallow street setback, this two story cottage with reinforced concrete and brick foundation has board and horizontal battens covering the first floor exterior and natural wood shingle covering the second floor exterior under a simple gable roof. The modest living quarters are located on the second story above a one car garage with hinged wooden barn doors enhanced by decorative window vents. The second story fenestration consists of a decoratively mullioned three panel with side lights and a multi-lite casement on the north and an expansive three panel French doors opening onto a side porch entry with scroll-sawn Swiss chalet style railings. In 1982, a sympathetic alteration converted a second garage to additional living space with two pairs of four light wooden windows and a street level entry under the second story porch. The alteration does not significantly alter the integrity of the structure.

35. 53 & 57 Canyon Road – ONE NON CONTRIBUTING: two unit building – later construction, 1970

36. 61 Canyon Road - ONE NON CONTRIBUTING: house – later construction (c. 1987)

37. 67 Canyon Road (formerly 51 Canyon Road) - TWO CONTRIBUTING: house; detached garage (a)

Year built: 1911
Owner/designer: Stratton, George Malcolm[xii]

This single family house rises three and a half stories from the street on the uphill side of Canyon Road; the bulk and mass is striking. The wood shingled structure has a double steeply pitched side gabled roof with overhanging eaves. The front gable has been altered by the addition of two large skylights facing north. The main entrance is on the west side by way of a concrete and brick stairway, made complex by many turns and levels. The west facing entry portal is defined by a Tudor-arched door way, a built-in bench on one side, board and batten siding, and a single-paneled wooden door. A one story western wing off the main house has a side-gable roof. A second story open face balcony on the north side is supported by massive wooden brackets that, although sympathetic, are not original. Balcony railing was replaced with compatible modifications in 2003. Built on a sub-standard cul-de-sac with very shallow street setback and facing Strawberry Canyon, the house is bordered by a forest of coastal live oaks and bay trees in the undeveloped land known as the University of California at Berkeley's Ecological Study Area. The physical location at the base of the hill and at the geographic interface between the neighborhood and the University makes this house a socio-geographic landmark. A five foot high concrete retaining wall following the contours of Canyon Road has been recently retrofitted but maintains the original brick steps to the expansive entry. While the public side of the home is austere, the back side opens onto a lush terrace garden providing a private outdoor living area for the residents. Windows are mostly plain double hung sash. A window has been added to the street-side of the house on the floor below the main entrance. The overall structure retains its integrity. A one-car garage is built into a concrete retaining wall of the hillside is unaltered.

38. 4 Mosswood Lane - ONE CONTRIBUTING: cottage

Year built: 1930
Architect: Steilberg, Walter
Original owner: Steilberg, Walter

This one and one half story Mediterranean style cottage is built of Fabricrete with a shallow gable roof of terracotta tiles and was Steilberg's response to the devastating Berkeley Hills fire in 1923. This was meant to be a low cost home impermeable to fires and other disasters. The windows have steel sashes, the sills are tile. The only wood in the structure are the kitchen cabinets, the doors and bookshelves built-in beside the fireplace and the table in the breakfast nook. The cottage is accessible only by foot off Mosswood Lane and from the rear of the Steilberg family compound at 1 Orchard Lane and 1 Panoramic Way; the cottage is a hidden gem. A roof top terrace, accessed by a graceful curving substandard stairway, breaks the roofline on the front eastern elevation. Metal frame multi-lite windows are plentiful. A large picture window on the western façade allows an expansive bay view from the living room. An oversize fireplace in the living room provides heat throughout the house due to the foot thick concrete walls which have pigment rubbed in while still wet so that the interior never requires painting, which was another cost saving feature. Even the lighting fixtures were designed by Steilberg. Using capiz shells for the built in shades, a technique adapted from antique Chinese domestic paning, he felt they would be a low cost solution to lighting. The front door is similar to the one Steilberg designed for 6 Mosswood Road, that is, an arched doorway with leaded designs in colored glass. Venting is cleverly concealed behind Steilberg's trademark glazed green Oriental

perforated tiles. The half story on the western elevation consists of a small bedroom or study accessed by a steep, gently curving interior stairway.

39. 6 Mosswood Road – ONE CONTRIBUTING: cottage and garage combination

Year built: 1924
Architect: Steilberg, Walter
Original owner: Mel, Charles

This two story Mediterranean style Fabricrete cottage with terra-cotta tile shed roof sits atop a foundation of five large archways forming five garage spaces with entry off of Mosswood Road on a sub-standard lot. A flat projecting bay window flanked by two four lite casements rests above two north west facing arches. An iron and glass balcony is buttressed by Fabricrete piers and centered above the fourth archway on the western façade accessed by multiple lite French doors. A side entry is tucked away, not visible from the street, and accessed by a concrete stairway shared by 8 and 10 Mosswood. The entry door is arched with leaded glass panes. In 2004, the two most southern garages were altered with the addition of side hinged custom built wooden barn doors, which are compatible with and do not detract from the whole, and replace original (but deteriorated) hanging curtains.

40. 8 Mosswood Road - ONE CONTRIBUTING: house

Year built: 1919
Architect: Allen, Harris
Original owner: Mel, Charles

This two and one half story home sits on the uphill side of Mosswood Road and behind 6 Mosswood Road and shares the entry stairs for 6 and 10 Mosswood Road. The exterior is finished in ship-lap siding on the first story and jazz stucco on the upper one and one half stories with a low gabled roof and overhanging eaves. The side entry is on the north under a gabled portico through an arched doorway.

41. 10 Mosswood Road – ONE NON CONTRIBUTING: house – significantly altered

42. 11 Mosswood Road - TWO CONTRIBUTING: house;
cottage and garage combination (a)

Year garage-apartment built: 1925
Year house built: 1929
Architect: Morgan, Julia
Original owner: Jepson, Willis

This two story rectangular structure with stucco exterior and shallow hipped terracotta tile roof is one-room deep and symmetrical with single lite casement windows dominating all sides. The narrow depth and window dominance afford spectacular views of the bay from each room. Corner windows are canted on all four corners. The windows of the southeastern and southwestern elevations are arched, while all others are single or double rectangles. The back yard is terraced with a 10 foot high concrete retaining wall that edges the property and forms a privacy barrier between the garden and the public Mosswood Lane to the west. The front yard towards the east is level. The front gate located at the second switchback of Panoramic Way (where Mosswood Road begins) is a reminder of days when there were fewer cars navigating the switchback. Ironwork configured in a herbarium theme flank the front arched entry way door. Three fireplaces are distinctive, especially a carved "Herbarium Mantel" by Jules Suppo. The interior also boasts a single person "birdcage" elevator between the first and second stories. Exterior alterations include a wooden privacy fence and alternate gated entrance on the northeast side at the street as well as a sliding glass door which led to an outdoor balcony (later added and now dismantled) along the southwestern side of the house. The sliding doors are not visible from the street and therefore do not detract significantly from the overall integrity of the structure. The two car garage with small apartment above was originally built for Willis Jepson, renowned Botanist and UC Professor, while Julia Morgan completed the design and construction of his home at 11 Mosswood.[xiii] The apartment is a rectangular stucco structure with terracotta tile hipped roof. Fenestration consists of multi lite casement windows and a set of French doors opening to a small ornamental balcony on the southern exposure. Entry is gained from the west up a narrow flank of wooden stairs across a portico running the length of the second story western façade.

43. 13 Mosswood Road - TWO NON-CONTRIBUTING: house;
retaining wall (a)

Year designed: 1939
Year built: 1975
Architect: Wright, Frank Lloyd
Original owner: Feldman, Joseph

Built entirely with four materials – glass, wood, concrete, and brick - the exterior of this one-story is rust-colored custom-made brick on the street side and floor to ceiling walls of glass on the back and sides where panoramic bay views, terraces, and living spaces meet. A cantilevered roof creates a spacious carport and entrance at the front and provides cover for the terracing on the sides and back. The terrace has been expanded and carried toward the street while access to the terrace has been increased by replacing a window with a door. The downward sloping site is supported by a massive brick retaining wall that not only creates the terrace but is reminiscent of the retaining wall built sixty years earlier at 100 Arden Road (see photo 61.a.1). The horizontal lines of the house are strengthened by the rooflines, the brick pattern, and even a horizontal metal railing painted in rustic red. The interior board and batten walls are made entirely of California clear heart redwood; light fixtures and other interior detail are all original designs of Wright. Clerestory windows surrounded by a band of redwood cutouts serve as walls. The house was originally conceived in 1939 for Lewis N.

Bell in Malibu but built at the Berkeley location in 1974.The posthumous project was authorized by Olgivanna Wright and overseen by Taliesen Foundation architects.[xiv] The design, materials and foundation were reworked to suit the northern California character of the new site. For example, "(t)hirty thousand bricks were specially made to the 2 ¼" Eastern U.S., rather than the 2 5/8" California, standard to fit Wright's 13" unit system, here applied to a two-foot-grid parallelogram module."[xv] The house is significant and its importance is underscored by the support of the Frank Lloyd Wright Building Conservancy. Ronald L. Scherubel, Executive Director of the organization has provided some explanation of the building's history and important qualities.

In the late 1930s, Lewis N. Bell engaged Frank Lloyd Wright to design a house for him on a hilly Los Angeles site. Wright accepted the commission and the plans were completed in 1939 calling for a house of brick and native wood to be nestled into the Hollywood Hills near Mulholland Drive, commanding a sweeping view of Los Angeles. Regrettably, due to the high cost of the construction, the Bells did not proceed with the building of what would have been one of Mr. Wright's more charming, small, early Usonian houses. Wright and Taliesin retained the original drawings.

In 1974 Mr. And Mrs. Joe Feldman went to Taliesin looking for a Frank Lloyd Wright plan that they could build. After some deliberation with officials at Taliesin, including Kamal Amin, a senior architect and structural engineer with 23 years in the Taliesin Fellowship, Bruce Brooks Pfeiffer, currently head of the Frank Lloyd Wright Archives, and Olgivanna Wright, Wright's widow, they chose the plans for the Bell House as most appropriate for Joe Feldman's site.

The construction followed the original 1939 plans prepared by Wright, as closely as the more modern building and seismic codes would permit. California clear heart redwood is used in the board and batten walls and for trim. The most significant changes include flipping the plans into a mirror image of the original layout to better fit the new site, and constructing a more substantial retaining wall out of brick instead of board and batten. Being in an earthquake zone and on a very steep hill, the main challenge was to insert the necessary reinforcement to maintain the integrity of the aesthetics without the slightest of design changes. None of these modifications detract from the significance of the final structure.

The Feldman House is extremely significant in that it fills a gap in the record of Wright's actual built works, allowing architectural historians and students to see an important early step in Wright's development of the Usonian house, following so closely its introduction with the Jacobs 1 House in 1936, albeit through the eyes and talents of the Taliesin Architects' later adaptation. The house exhibits Wright's early genius for making a very small space seem so large and open. It was his first use of the hexagonal modular design in a smaller house, after its successful introduction in the much larger Hanna House in 1936. The hexagon form which almost eliminates corners, coupled with the expansive windows, allows the living space to flow out onto the deck making the interior space appear much larger than its square footage suggests.

The Feldman House is not yet fifty years old and for that reason has been named a non-contributor. However, as the building approaches the fifty-year mark, it should be re-evaluated and, if integrity is maintained, re-classified as contributing.

44. 14 Mosswood Road - FOUR CONTRIBUTING: house;
detached garage (a)
cottage (b)
retaining wall (c)

Year house built: 1919
Architect: Baird, Mabel R.
Original owner: Baird, Robert H.
Year garage built: 1936
Architect: Steilberg, Walter
Original owner: Hutchinson, Lincoln

Built on the uphill side of Mosswood Road, this rectangular brown shingle, two and one half story house is entered through a projecting covered porch. An early alteration, it is flanked on the street side with two evenly placed large square four lite stationary windows. Two pairs of French doors originally formed the entryway, which is the same door treatment for 16 Mosswood Road which was also designed by Mabel Baird. The current owner has (as a seismic upgrade) converted the entryway to a single pair of working French doors with a stationary side light utilizing the original doors in the conversion. However, this alteration has not adversely affected the integrity of the original design. A second story sleeping porch forms the wide dormer above the entrance and is inset with three casement windows. The back eastern facing wall of the house is tucked into the hillside. The architect made clever use of the natural features of the site by abutting a tiled terrace to the second story master bedroom. The terrace is reached through multi-lite French doors. Below the terrace, a servant's quarter is tucked off the kitchen entrance to the home. The roof is gabled, and the interior is sheathed in redwood. In 1936 the then owners commissioned Walter Steilberg to design a three car garage. Made of a patented method of making reinforced concrete known as Fabricrete (see section 7, Walter Steilberg), the garage is adorned with simple Art Deco inspired details on the façade. Above the garage is brown shingle north-facing studio with two projecting bay windows to the north, one to the east, and one to the west topped by a gabled roof with exposed rafter tails. A one room wood shingled guest cottage (approximately 9' x 14') conforms to the slope of the hillside and was added to the northeast of the property at approximately the same date as the garage. The cottage has a gently sloping gabled roof with exposed rafter tails and expansive windows on the north and south sides. The front west facing façade is only wide enough for the single entrance door flanked by decorative sidelites and one small single lite casement window. A natural, uncut rock retaining wall extends from the southwest property line to the northeasterly garage, following and defining the gentle curve of Mosswood Road. The entire property is enveloped in coastal live oaks, native shrubs and a few exotics.[xvi]

45. 16 Mosswood Road - ONE CONTRIBUTING: house

Year built: 1922
Owner/designer: Baird, Mabel R.

This square-shaped Arts & Crafts influenced bungalow has a rustic exterior being clad in natural wood shingled siding above a concrete foundation for two stories and wide board and narrow batten for the top half story. The roof is a gently sloping gable with exposed rafter tails. The west facing entrance façade of the home is fully symmetrical; four pair of wood casement windows containing eight lites per window are placed two pair on each side of an entry way of ten lite French doors. A second story cantilevered balcony with closely spaced vertical wood spindles projects over the front entrance. The second story west facing facade continues the symmetry with double French doors placed center to the façade and opening to the balcony and flanked by projecting bay windows framed on either side by eight-lite casement windows. The third or half story has one centered eight-lite casement window. A clinker brick fireplace and chimney is visible on the northwest side of the structure. From the rear the home conforms to the sloping hillside and appears to be a single story cottage with entry accessed through a sleeping porch containing four single pane sliding ribbon windows on the front and two sets of triple casement windows on the north and south sides of the porch. Sheltered from the street at the end of a 100' long, steep, ascending path, the house is situated above and behind 14 Mosswood, surrounded by coastal live oaks and bays laurels, yet opened to panoramic views of the Golden Gate Bridge, the Campanile and the surrounding Berkeley hills.

46. 20 Mosswood Road - TWO NON-CONTRIBUTING: house;
detached garage (a) –
later construction (c. 2000)

47. 21 Mosswood Road - TWO CONTRIBUTING: house;
detached garage (a)

Year house built: 1895
Builder: unknown
Original owner: Mouser, Silas
Year moved and remodeled: 1910
Architect: Thomas, John Hudson
Owner: Parsons, Edward T.
Year garage built: 1924

This single-family, two story dwelling was originally a white clapboard farmhouse located where 11 Mosswood Road now stands. In 1910, the house was relocated to its current site and remodeled in the Arts and Crafts style. Close to the road with a very shallow street setback, the exterior is clad in redwood shingles. The shingles are even with the sash, and the windows have no visible frame. The interior was remodeled, and except for the kitchen, the first floor walls and ceiling were paneled in redwood throughout. Open-faced balconies orient to the north and the canyon below. Expansive picture windows on the southwestern corner provide views of the bay and on the north provide views of the canyon. The street side of the house has smaller rectangular single lite casement windows arranged symmetrically on either side of the entry way. The entry door is multi-lite beveled glass protected by a copper sheathed awning which forms the support for a second story bay window.

48. 29 Mosswood Road - TWO CONTRIBUTING: house; detached garage (a)

Year built: 1921
Architect: Steilberg, Walter
Original owner: Parsons, Marion

This two and one half story brown-shingle home is a large rectangle upon a concrete foundation. A low-hipped roof surmounts the design and widely overhangs the building in various places. Sited facing the downhill side of Mosswood Road, the home is two stories on the front elevation and three full stories on the rear (facing Strawberry Canyon).
"The walls have a massive, 'bearing' quality because of the relatively small ratio of window to wall area, but the fenestration forms the principal element of articulation for the design. The windows are of varying dimensions, and give an 'at-random' quality to the rear elevation. Banked casements are used exclusively on the upper story. Large fixed-sash picture windows are found on rear." HRI The main floor interior is almost exclusively finely finished redwood board and batten on both walls and ceilings. An original sleeping porch is with accordion wood sash windows is maintained on the northern (canyon side) of the second story. In 1985, the kitchen was enlarged and a family room was added to the north eastern side of the home but the addition is sympathetic (including a hipped roof and redwood shingle siding) with the original structure and does not detract from the overall integrity. Built just prior to the devastating North Berkeley fire of 1923, this home still has the original roof top sprinkler system, installed by the owners after 1923 to protect against future catastrophe. A two-car garage, clad in brown-shingle, on two story high stilts, was built as part of the same project. The garage has a side gable and a shed roof off the back with a pair of casement windows that open to the canyon. On the east side wall, window openings are filled with green, glazed, perforated Oriental tiles. Plain, stained, wood doors are recent additions.

49. 37 Mosswood Road – TWO CONTRIBUTING: house; retaining wall (a)

Year built: 1911
Architect: Ratcliff, Walter H. Jr.
Original owner: Allen, James T. Allen

Built on the downhill side of Mosswood Road, the three story brown shingle rectangular house has a steeply pitched side-gable roof, a steeply pitched front gable over the inset front porch, and gables over each of the windows on the top floor. The house is symmetrical with the entrance centered in the front and rows of multi-paned casement windows on each side. A substantial battered concrete foundation supports the structure. A curved roofline graces one upstairs deck which is enclosed on two sides and suitable for sleeping. This house is on the edge of the neighborhood, sited above and behind 67 Canyon Road and borders the University's Ecological Study Area. An open faced balcony opens off the northern exposed canyon side of the house and next to the adjacent oak-bay woodlands of the Ecological Study Area. In general, windows are large and plentiful serving to bring nature inside; in the living room, each sash of the large casement windows is divided into ten panes. The east elevation dining room has a large rectangular picture window overlooking the oak-bay

woodlands next door. From the street, the brick stairway and retaining wall gracefully curves to follow the contours of the hillside and forms a built-in brick bench as it reaches the front entryway. The original plans show a trellis at the entrance, but that was before the oak trees were mature on this north facing lot. Some windows have been added to the side and back on the eastern and southern corner of the main floor, but otherwise the exterior is unaltered.

The University land next door was not then known as the Ecological Study Area. However, it was a preserve where "no shooting is allowed at any season...",[xvii] and the grounds of 37 Mosswood were part of that larger landscape. As described by Mrs. Amelia Sanborn Allen, "Our house is in the middle of a dense grove of young live-oak trees, on the southern wall of the canyon opposite the University dairy, and to the south and west of the swimming pool."[xviii] The landscape of 37 Mosswood Road and the adjacent University land remains much the same today.

50. 38 Mosswood Road – ONE CONTRIBUTING: house

Year built: 1915
Owner/designer: Parker, Carleton

This three story roughly square structure is sided with natural wood barn shakes under a flat roof with overhanging eaves. The dwelling steps steeply down the hillside from Arden Road although its address is Mosswood Road, and its entrance is off the Arden Steps. The second story entrance is from a side porch with a balcony above. Fenestration consists of single lite casement windows and two picture windows on the western exposure claiming views of the Golden Gate from the second story living room. Cantilevered porches on the northern exposure of the first and second stories overlook Strawberry Canyon. The third story back of the house is at street level with access from the cul-de-sac at Arden Road adjacent to the massive clinker brick retaining wall for 100 Arden Road. After a fire in the 1940's the original steeply pitched gable roof was replaced with the current flat roof and broad eaves. In 1982, a deck was added to the first story on the northern (canyon) side of the house of house. The alterations do not substantially detract from the integrity of the dwelling.

51. 1 Orchard Lane - ONE CONTRIBUTING: house

Year built: 1922
Architect: Steilberg, Walter
Original owner: Steilberg, Walter

This three-story, 12-room single family house was the principal residence (and one of three related structures) for Walter Steilberg and his family (rf. 1 Panoramic Way and 4 Mosswood Lane). The exterior is finished in unpainted/unstained redwood shingles and rose-colored stucco. Green painted window trim matches the green of the surrounding almond trees, whereas the underside of the eaves was once sky blue. An octagonal tower dominates the western façade; the third story of which has a balustrade formed by his trademark glazed green Oriental perforated tiles. Exemplifying the relationship of the building and its site, "the house climbs a slope with each story opening onto

terraces or decks, with glass doors echoing the fenestration.""...glass dining room with mirror doors on east wall reflecting the bay view. This room is duplicated on the third story but here a bank of glazed perforated Chinese tiles forms a balustrade. Architectural features include mullions of amber glass, elaborate and expansive fenestration, custom-designed lighting fixtures, door handles, and paint custom-ordered to match outdoor colors. The south wing was built as bedrooms and the top-floor (east) porch was enclosed in 1927. Expansion of the top floor, south-facing study in 1945-46 involved changing the small peaked-roof space to a 10'x12' flat-roofed space suitable for use as a bedroom. At about the same time, an outside door (glass-paned) was added to a corner of the north, second-floor bedroom, in order to ease access to that room which was being converted to Steilberg's office. The original wood shingle roof has been replaced with composition shingle.

52. 3 Orchard Lane – TWO CONTRIBUTING: house;
retaining wall (a)

Year built: 1915
Architect: Bangs, E. Geoffrey
Original owner: unknown

This rectangular two story wooden structure with wood shingle siding stained a dark brown has a gently gabled roof. The house conforms to the hillside, and its second story roofline is on grade with the switchback where Panoramic Way intersects Mosswood Road. The fenestration consists primarily of large picture windows, commanding expansive views of the Golden Gate. Some wooden windows have been replaced by aluminum but size and locations remain as originally built. A second story portico is reached by a pair of large French doors and is shielded from the western exposure by a generous pergola. The property is accessible by foot in three ways - from the west via Mosswood Lane, from the south via a classical entrance marked by a delicately painted #3 on a pillar mid-way up Orchard Lane, or from the south east by way of the topmost landing of Orchard Lane as it meets Panoramic Way at the Mosswood intersection. Built five years after the completion of Orchard Lane, the main entrance was then from Orchard Lane and designed in the beaux-arts style. The design is carried through to two terraces that wrap around the back of the house mimicking the pattern of the classical balustrades.[xix] The retaining wall to this terrace can be seen from Mosswood Lane below. The main entrance to the 3 Orchard Lane is from Orchard Lane and the design of the private staircase is in the beaux-arts style in keeping with the vernacular of the public staircase. The terrace is likewise designed in the Beaux-arts style and is graced with concrete balustrades supported by two massive curved retaining walls one of which can be seen from Mosswood Lane below. The similarity of design between the Beaux-arts staircase at 3 Orchard Lane and Orchard Lane itself makes the private entrance appear to be a branch of Orchard Lane.[xx]

53. 19 Orchard Lane – ONE CONTRIBUTING: cottage

Year built: 1950.
Builder: Jevans, J.H.
Original owner: Bush, Philip

This small (26' x 26') one and one-half story cottage with its flat, tar and gravel roof is accessible solely by foot, by way of the public Orchard Lane steps. The small, simple box-like structure is unobtrusive as it descends the hillside upon which it is built. The southern and eastern facades are devoid of fenestration. The original entry door situated next to the red brick chimney on the southern façade is no longer used and has been replaced with clapboard siding to match the rest of the cottage and does not adversely affect the integrity of the structure. Entry is through a private gateway via the deck which runs the length of the western façade. The western façade is dominated by French doors providing panoramic bay views and entry to the cottage. Two small fixed rectangular wood windows on the northern façade comprise the only other fenestration. The cottage sits atop a cistern formerly used as a reservoir fed by an underground spring. The redwood clapboard siding has been painted brown and is illustrative of the Second Bay Region Style.

54. 21 Orchard Lane – ONE CONTRIBUTING: cottage

Year built: 1949
Builder: Brodhoff, C.O.
Original owner: Parker, Alfred

This rectangular one and one-half story cottage is clad in redwood clapboard stained a dark brown. The shallow pitched gable roof is notched in the southeastern corner in order to accommodate a mature coastal live oak tree but is otherwise symmetrical. The cottage is accessible only by foot by way of the Orchard Lane steps. The unadorned entrance to the house faces the hillside to the east under a small shed roof. The western façade is dominated by three pairs of eight-lite casement windows which open the cottage up to the panoramic bay view. A large clinker brick chimney and a single eight-lite casement window dominate the southern exposure visible from the Orchard Lane path. This cottage casually combines elements from both First and Second Bay Region Styles into a small, unified whole.

55. 59 Arden Road (formerly 30 Arden Road) - ONE CONTRIBUTING: house

Year house built: 1912
Builder: Junk-Riddle Co.
Year garage built: 1924
Original owner: Washburn, O.M.

This two and one half story rectangular wood shingled home with gabled roof, exposed rafter tails, broad eaves and angled support brackets for the beam ends, is mostly hidden from Arden Road. The main entrance on the south side of the dwelling is from Arden but the home is most visible from the Orchard Lane steps on the north side. The western façade is open to light and bay views through wide double hung sash windows wherein the upper sash is divided vertically into four panes. A sun room with a band of windows brings in light from the west, and a square bay window with shed roof opens the house to wooded views on the south elevation. The chimney is clad in concrete. Minor exterior alterations include replacement of two upstairs windows without vertical lites and the addition

of an attached garage of hollow tile sometime prior to 1929. The garage is compatible and does not detract from the overall integrity of the home. The original house burned to the ground on December 26, 1912 and was rebuilt soon thereafter.

56. 65 Arden Road - ONE CONTRIBUTING: house

Year built: 1935
Architect: Steilberg, Walter
Original owner: Parker, Alfred

This L-shaped natural barn-shingled home with hipped roof and wide overhanging eaves has a shallow street setback as it steps down the western slope of the hillside from Arden Road. The front of the house is dominated by a two car garage which abuts the house to form the L. The garage is closed from the street by undistinguished redwood doors. A small brick terrace enclosed by a wooden fence and gate leads to the main entry door protected by a shed roof projecting from the garage wing. There are no windows on the street side and main entrance. The only ornamentation is found on the entry door where a small privacy window is carved in an "Oriental" motif. From Arden Road the home appears to be a one story cottage attached to a large garage. From the Orchard Lane approach the house is three stories tall and is dominated by a three sided turret like structure with double single lite casement windows in each face of the turret, giving commanding views of the Bay to the west. A side second story entrance is located off of Orchard Lane.

57. 70 Arden Road - ONE CONTRIBUTING: house and garage combination

Year built: 1939
Architect: Wurster, William
Original owner: Gardner, Eleanor

This rectangular wood siding and stucco two story home runs parallel to the street in a shallow L configuration. The second story living space above a line of four single stall garages on the street level has a flat roof with overhanging eaves. The main entrance is from the north side in a recessed alcove barely visible from the street. Built on the uphill side of Arden Road three very large casement windows on the western façade provide an expansive view of the bay. The stucco has had an ochre pigment added before application. A projecting balcony with horizontal board on its face runs the entire length of the western facade. Redwood garage doors are compatible. This home is a fine example of Second Bay Region Style architecture.

58. 76 Arden Road - ONE CONTRIBUTING: house

Year built: 1925
Contractor: Mason-McDuffie Co. Designer unknown
Original owner: Bradley, H.W.
Interior second unit; 1939

Architect: Wurster, William

This two and one half story box style Mediterranean-influenced stucco over wood two-story structure has a flat recessed roof and is on the uphill side of Arden Road facing the Bay. The main entry is from the south side up two flights of steep concrete steps. Two large picture windows each flanked by casements dominate the western façade, one window per story. The second story window is enhanced by an inset in the stucco wall above in the shape of a elongated half oval. The half story basement was converted to a second unit in the 1940s and designed by William Wurster. The unit has characteristic modern features such as a cement floor in bathroom and kitchen, plywood paneling on the walls, and a Celotex ceiling.

59. 89 Arden Road – ONE NON-CONTRIBUTING; house remodeled extensively in 1991.

60. 95 & 99 Arden Road - ONE NON-CONTRIBUTING: duplex - later construction (c. 1953)

61. 100 Arden Road (formerly 47 Arden Road)- THREE CONTRIBUTING: house;
detached garage (a)
retaining wall (b)

Year built: 1915
Designer/owner: Hersam, Ernest A.

This imposing two and one half story rectangular structure is sheathed in natural wood shingles and sits on a concrete foundation under a side gabled roof with wide over-hanging eaves and exposed rafter tails. A remarkable clinker brick retaining wall and entry way envelops the property and presents an inviting though fortress-like effect as it follows the gentle curve of the Arden Road cul-de-sac. Several landings twist and turn to reach the main entrance on the south side of the property where a pitched gable porch roof protects the classic Craftsman door from the direct sun. To the left of the entrance is a secondary retaining wall with clinker brick buttresses forming the border for a garden and a built-in clinker brick bench. Fenestration consists of three large square picture windows dominating the western façade opening the living room to spectacular bay views. On the second story, double hung sash windows have six lites in each of the top sashes, and a balcony is supported by wooden angle brackets. Inside the house, walls and ceilings are paneled in unstained clear-heart redwood. The garage is built into the hillside and faced by the clinker brick retaining wall with a high-opening arched doorway and an unremarkable wooden door.

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[i] Siegel and Strain, Architects, Historic Structure Report California Memorial Stadium (Berkeley: University of California Office of Planning, Design, and Construction, 1999), p. 13.
[ii] Suzanne B. Riess, editor, *The Julia Morgan Architectural History Project* Vol. 1 (Berkeley: The Regents of the University of California, 1976), p. 109-110.
[iii] Gray Allen Brechin, *Berkeley Urban Conservation Survey* (BAHA); Marilyn Wright Ford, "Panoramic Hill: The Early Days," in *Panoramic Hill: Berkeley's Most Romantic Neighborhood*, revised edition (Berkeley: BAHA, 1996), pp. 1-2; Riess, p. 104.

[iv] Frank Soulé, Jr., Map of Strawberry Valley and Vicinity – *Showing the Natural Sources of the Water Supply of The University of California With proposed System of Reservoirs, distributing Pipes, etc.*, 1875.
[v] Berkeley Urban Conservation Survey (Berkeley: Berkeley Architectural Heritage Association, 1977).
[vi] Not shown on 1911 Sanborn maps but building altered in 1921.
[vii] A search of building permits, zoning permits, finance records, and BAHA files found no information about original owner or architect.
[viii] Warren and Lorna Byrne, *Notes on the Exterior* (Berkeley: Berkeley Architectural Heritage Association, block 10-1861, 2004).
[ix] Soulé.
[x] Riess, p. 103
[xi] Interview of Florence Stratton Reinke by Anthony Bruce and Lesley Emmington-Jones (Berkeley: Berkeley Architectural Heritage Association, audio tape, October 1977).
[xii] Ibid.
[xiii] Interview of Howard Mel by Fredrica Drotos, 10/30/04.
[xiv] Interview of Jeanne Allen by Janice Thomas, 10/30/04.
[xv] William Allin Storrer, *The Architecture of Frank Lloyd Wright: A Complete Catalog*, 2nd ed. (Cambridge, Massachusetts: The MIT Press, 1991) A436.
[xvi] Interview of Hilary Bendich by Fredrica Drotos, 11/8/04.

[xvii] Amelia Sanborn Allen, "Birds of a Berkeley Hillside," in *The Condor* Vol. XVII (March 1915), p. 79.
[xviii] Allen, p. 78.
[xix] Interview of Jane Bendix, current owner of 3 Orchard Lane, by Janice Thomas on 10/23/04. Mrs. Bendix described a watercolor of the exterior of her house which was signed by Bernard Maybeck. She believes he had a role in designing her house.
[xx] Ibid.

8. Statement of Significance

Applicable National Register Criteria
(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

- ☐ A Property is associated with events that have made a significant contribution to the broad patterns of our history.
- ☐ B Property is associated with the lives of persons significant in our past.
- ☒ C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- ☐ D Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations
(Mark "X" in all the boxes that apply.)

Property is:

- ☐ A owned by a religious institution or used for religious purposes.
- ☐ B removed from its original location.
- ☐ C a birthplace or a grave.
- ☐ D a cemetery.
- ☐ E a reconstructed building, object, or structure.
- ☐ F a commemorative property.
- ☐ G less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance
(Enter categories from instructions)
Architecture

Period of Significance
1901-1950

Significant Dates

Significant Person
(Complete if Criterion B is marked above)

Cultural Affiliation

Architect/Builder
Bernard, Maybeck; Coxhead, Ernest; Morgan, Julia; Steilberg, Walter; Ratcliff, Walter H., Jr.; Thomas, John Hudson; Wright, Frank Lloyd; Atkins, Henry; Paine, Robert; Ratcliff, Robert; Wurster, William.

Narrative Statement of Significance
(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS):
- ☐ preliminary determination of individual listing (36 CFR 67) has been requested.
- ☐ previously listed in the National Register
- ☐ previously determined eligible by the National Register
- ☐ designated a National Historic Landmark
- ☐ recorded by Historic American Buildings Survey # _____
- ☐ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
- ☐ State Historic Preservation Office
- ☐ Other State agency
- ☐ Federal agency
- ☒ Local government
- ☒ University
- ☒ Other

Name of repository:
See Continuation Sheet

Panoramic Hill
Name of Property

Alameda, California
County and State

10. Geographical Data

Acreage of Property: 12.3 acres

UTM References
(Place additional UTM references on a continuation sheet)

	Zone	Easting	Northing		Zone	Easting	Northing
1	10	666060	4191480	3	10	666360	4191360
2	10	660250	4191600	4	10	666170	4191210
				5	10	666100	4191300

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title Janice Thomas & Fredrica Drotos

organization Berkeley Architectural Heritage Association date November 8, 2004

street & number 37 Mosswood Road telephone (510) 549-1171

city or town Berkeley state CA zip code 94704

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A **USGS map** (7.5 or 15 minute series) indicating the property's location.

A **Sketch map** for historic districts and properties having large acreage or numerous resources.

Photographs

Representative **black and white photographs** of the property.

Additional items
(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name

street & number telephone

city or town state zip code

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 *et seq.*).
Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.0. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Project (1024-0018), Washington, DC. 20503.

SUMMARY

The Panoramic Hill Historic District is eligible for the National Register of Historic Places under criterion C at the local level of significance. Under criterion C, Panoramic Hill is significant in the area of Architecture as a neighborhood that represents the Bay Area Tradition in architecture, primarily the first phase associated with the Arts and Crafts Movement. The district includes notable houses by architects Ernest Coxhead, Bernard Maybeck, Julia Morgan, Walter Steilberg, and others; a distinctive street plan; and paths and steps that provide pedestrian circulation. Since the north side fire of 1923, Panoramic Hill is among the most extensive surviving Arts and Crafts neighborhoods in Berkeley, which was the Northern California center of this important early twentieth century architectural movement. The district is significant for the period from 1901, when the first home was constructed, through 1950. Construction of significant new buildings dwindled during the 1940s and had virtually ended by that later date. A few significant architect-designed alterations took place to existing homes in the early 1950s. One home, the Feldman House at 13 Mosswood Road, was constructed in 1975 from a 1939 Frank Lloyd Wright design.

HISTORIC CONTEXT

Architecture

Late nineteenth-century California residential architecture for the middle and upper middle classes was characterized for the most part by repetitive floor plans, wood construction, and decorated interior and exterior surfaces. These decorated surfaces reflected the possibilities suggested by mass produced illustrations and realized by steam-driven machinery in wood-working factories more than they did any conscious aesthetic ideas. Painted houses of this sort line the streets of Berkeley's new neighborhoods that were expanding with the University of California, notably the College Homestead tract on the south side of the campus, the principal residential neighborhood for the University. In later yeas, houses like these came to be identified collectively as "Victorian," or labeled by stylistic terms as Italianate, Eastlake, or Queen Anne.

Victorian Berkeley was little different from Victorian neighborhoods throughout California and the rest of the United States. Likewise, Victorian America had many similarities with comparable districts of Europe and other industrialized countries. The common ingredient in all of these places was the recent and rapid industrialization of societies. Everywhere, industrialization resulted in a growing middle class and, at the same time, a growing gap between those who could afford to live comfortably and those who struggled in poverty. The architecture we now call Victorian was developed to accommodate those who benefited

materially from industrialization. The plentiful and conspicuous architecture of Victorian houses struck many as a symbol of the age, for both good and bad.

In England, where the differences between rich and poor were particularly strong, and the differences between middle class neighborhoods and working class slums were particularly evident, powerful critics focused their attacks – and solutions – on architecture. John Ruskin and William Morris saw the middle ages as the last great period for architecture, which went into decline with the Renaissance and sunk to its nadir during the Industrial Revolution in the nineteenth century. Since the middle ages, when skilled craftsmen were directly responsible for the creation of beautiful buildings, industrialization had resulted in the estrangement of workers from their work and in the consequent ugliness of buildings and cities.

Out of this critique, and the examples of William Morris, came the Arts and Crafts Movement. This movement began in England and subsequently spread to the United States and other industrialized countries. It sought to replace mass-produced, machine-made architecture whose appearance alienated people from society with hand crafted architecture whose appearance helped to unify producers and users of architecture, among different elements of society.

The Arts and Crafts movement influenced progressive architects and clients in cities throughout the United States – although usually more for its architectural than its social aspects. The work of H.H. Richardson and Frank Lloyd Wright, the Shingle Style in New York and New England, the Mission Revival, and other regional expressions all reflected aspects of the ideas and imagery of the Arts and Crafts movement in various ways. However, nowhere did the Arts and Crafts movement emerge more directly than in the San Francisco Bay Area, and nowhere did it flourish more extensively than in Berkeley.

Arts and Crafts ideas were introduced to the San Francisco Bay Area by Joseph Worcester, a Swedenborgian minister who cultivated "rustic qualities" in a house in Piedmont in 1876 and in four shingled houses on top of Russian Hill in San Francisco in 1888-1889.[i] These were followed in the 1890s by the generally scattered work of four recently arrived architects to the Bay Area – Ernest Coxhead, Willis Polk, A.C. Schweinfurth, and Bernard Maybeck. Trained in different ways, beginning in the late 1880s these sophisticated architects introduced to the region buildings with a new kind of imagery for clients who shared their rejection of the architectural mainstream. Although each architect had a distinctive approach, the four produced buildings with certain common characteristics – unpainted redwood structures often clad in shingles, reliance on vernacular sources (of various kinds, including California barns and working buildings, California Missions, English country architecture, and the architecture of rural northern France), hand craftsmanship (ironically, most of these houses were just as dependent on industrial processes and machine-driven tools as were those in Victorian styles), and compositions of contradictory volumes, surfaces, and details.

In the mid 1890s, the groundwork was laid for a broader impact of Arts and Crafts ideas and of the work of these architects. A house designed by Maybeck for himself lead to another

designed for his friend, the poet, Charles Keeler, and subsequently to several others near Keeler's house on Highland Place in north Berkeley. In the development of these houses, Maybeck and Keeler promoted a radical view of residential architecture, with simple houses built in harmony with nature. These ideas were given a forum with the establishment of the Hillside Club in 1898 – at first a women's club which met in Schweinfurth's shingled Unitarian Church on the south side of the campus. Reorganized by Maybeck and Keeler to include men in 1902, the Hillside Club functioned as a persuasive force for the dissemination of Arts and Crafts ideas in Berkeley. The publication in 1904 of the *Simple Home* by Keeler made these ideas more coherent and more widely available. From Keeler's book and Berkeley's example, progressive architects and clients built neighborhoods of rustic, unpainted, wood houses that blended with their natural settings on streets laid out to minimize disruption to the typically hilly topography. These neighborhoods formed a sharp contrast to more ordinary districts of painted houses on regular lots, whose landscaping and decoration emphasized both their separation from nature and their origins in industrial society.

Beginning around the turn of the century, enclaves of Arts and Crafts houses began to develop in scattered parts of the San Francisco Bay Area. While the largest such neighborhood was on the north side of Berkeley, others developed on the south side along Panoramic Way and Hillside Court; along Edgewood Avenue in San Francisco; in the Professorville neighborhood in Palo Alto and in Mill Valley, Sausalito, Ross, and San Anselmo in Marin County. In addition, Pacific Avenue where it faces the Presidio in San Francisco, was built as an urban version of what was generally a suburban development.

Mostly begun in the early 1900s, these neighborhoods of Arts and Crafts houses were built up with a consistent character during the 1910s and 1920s. Where there was room for infill buildings, or where there was room to expand, these neighborhoods grew in later decades in ways that were stylistically different but, at the same time, similar in important underlying ways. The results were often neighborhoods that were stylistically diverse but still harmonious and cohesive, unified by the use of materials, relationships to the natural setting, reference to vernacular sources, and employment of architectural contradictions. In retrospect, scholars have identified a Bay Area Tradition in architecture that, through a series of phases, encompasses a variety of styles.[ii]

Following the first phase of the Bay Area Tradition, characterized by two generations of Arts and Crafts architecture designed by Coxhead, Polk, Schweinfurth, Maybeck, Julia Morgan, Louis Christian Mullgardt, John Hudson Thomas, and others, were two later phases. The second phase from the 1920s to 1950s drew on the imagery of small cottages based on northern European vernacular designs; the historical vernaculars of California in wood and stucco – Spanish Colonial, Monterey, and rural farms; and a regional modernism, typified by the work of William Wurster. The third phase, of the 1960s to 1970s, was characterized by the work of architects Charles Moore, Donlyn Lyndon, William Turnbull, and Joseph Esherick. The emblematic project of this phase was Sea Ranch, inspired both by rural California barns and by the work of the modern architect, Louis Kahn.

In neighborhoods that were established in the first (Arts and Crafts) phase of the Bay Area Tradition, infill and additions to the neighborhood with buildings from subsequent phases was common and typically resulted in still-compatible neighborhoods. The original north Berkeley Hillside Club neighborhood was largely destroyed by a devastating fire in 1923. Wood and stucco houses representing both the first and second phases of the Bay Are Tradition were rebuilt around remnant clusters (for example, along Buena Vista Road) of early Arts and Crafts era houses. On Panoramic Hill, houses from the second phase of the Bay Area Tradition were built on infill lots and up the hill to the east of the original cluster of Arts and Crafts era houses. In these cases and elsewhere, the neighborhoods have remained coherent ensembles through decades of development and change.

Architects

Bernard Maybeck (1862-1957)

Bernard Maybeck was born in New York City in 1862, the son of German immigrants. His father's training in Flemish and Dutch cabinet making and specialization in wood carving, along with his own education at the Deutsche-Americanische Schule, deeply influenced the future aesthetic of Bernard Maybeck's architecture. In 1881, Maybeck set sail for Paris, where he studied at the Ecole des Beaux-Arts. In 1886, after five years in Paris, Maybeck returned to the United States and joined the firm of Carrère and Hastings in New York. In 1889 he came to the Bay Area, and eventually joined the offices of A. Page Brown, the most prestigious architectural firm in San Francisco. In 1894 he joined the Department of Instrumental Drawing at the University of California in Berkeley, a move that forever changed Maybeck's career. The largely rural town of Berkeley, with its beautiful hillsides and sweeping vistas of the Bay Area proved to be the perfect canvas for Maybeck to develop his love for German and Dutch medieval architecture, to foster the growth of the Arts and Crafts movement in California. Over the next several decades, Maybeck developed a reputation as an eccentric artist and became one of the most influential voices of the Hillside Club and residential development of Berkeley and the Bay Area. He mentored numerous aspiring architects, including Julia Morgan and Lillian Bridgman, and designed some of the most significant works of architecture in the Bay Area, including the First Church of Christ, Scientist, in Berkeley, and the Palace of the Fine Arts in San Francisco. Maybeck died on October 3, 1957 at the age of 95.[iii]

On Panoramic Hill, Maybeck designed the single-family dwelling at 23 Panoramic Way. The Swiss-chalet style home was designed in 1901 for law professor George Boke. The Boke House, as it has come to be known, has been copied twice there being one on Mather Street in Oakland and another in Aberdeen, Washington.[iv] Although the houses were built from the Boke house plans, which Maybeck had himself sold, he did not supervise construction of the Oakland and Aberdeen structures, and as a result, there are subtle differences in detail from the original.[v]

Ernest Coxhead (1863-1933)

Ernest Coxhead was born in Eastbourne, England in 1863. He trained at the Royal Academy and Architectural Association in London. He and his brother, Almeric, immigrated to Los Angeles, California, in 1886, where they opened an architectural practice together. Three years later, they relocated to San Francisco, where Coxhead stayed until his death in 1933. Inspired by the natural beauty of the Bay Area and influenced by the English arts-and-crafts movement's search for "truth" in design, Coxhead aspired to create a regional style that celebrated and respected the natural surroundings of the area. He favored English country architecture in his domestic designs - steeply pitched roofs, restrained informal exteriors that offered few clues to the interior design, formal interiors, and asymmetrical floor plans that lent themselves to elements of surprise and freedom of expression. His early houses were clad with brown shingles, and although shingled houses had long been popular in the American suburban and rural landscape, he, along with such contemporaries as Willis Polk, A.C. Schweinfurth, and Bernard Maybeck, was responsible for bringing idealized rustic beauty to an urban environment. A trip to Europe, with a stop en route at the World's Columbian Exposition in Chicago, along with America's growing interest in classicism and Beaux-Arts architecture, influenced Coxhead's later, larger houses, but their impact did not have the same reach as his earlier, shingle homes. Coxhead died in Berkeley in 1933.[vi]

On Panoramic Hill, Coxhead designed two brown shingle single-family dwellings during the first decade of the 20th century. Both were located on Canyon Road before Strawberry Creek had been culverted and the stadium built. The first of these Coxhead-designed houses was built in 1904 for Professor of Logic and Rhetoric Charles Rieber at 15 Canyon Road. The site sensitive design conforms to the lateral curvature of the hillside and its footprint is U-shaped and slightly akimbo as it wraps around the hill. The orientations of this complicated footprint are to both the bay and the canyon where Strawberry Creek flowed. A courtyard created inside the U-shape structure is the back of the house, a formal entrance, and having a terraced garden backdrop. The second of the Coxhead-designed houses on Panoramic Hill was built in 1905 for San Francisco fine-arts dealer Frederick Torrey at 1 Canyon Road. Also facing west with views, this brown shingled residence has dormer windows and a complicated footprint with numerous courtyards.

Julia Morgan (1872-1957)

Julia Morgan was born in San Francisco in 1872 and raised across the bay in the then affluent suburb of Oakland. She enrolled in the University of California in 1890, where she was one of few women who majored in Civil Engineering. A lifelong friendship, mentorship, and professional partnership began during her junior year, when Morgan met and studied under the young and eccentric architect and professor, Bernard Maybeck. After graduating with honors in 1894, Morgan collaborated with Maybeck, who encouraged her to study at his *alma mater*, the École des Beaux-Arts. Six years later she returned to California, the first to earn a degree in

architecture at the École des Beaux-Arts, and soon found work with John Galen Howard. In 1904 she set up her own business in the carriage house of her parents' home. By 1905, she had moved her practice to San Francisco, and from 1907 until her final retirement in 1951, Morgan located her practice in the Merchants Exchange Building in San Francisco. Apart from a short-lived partnership with Ira Hoover, she retained sole ownership of and authority over her architectural practice, which was one of the most prolific in the region. Though William Randolph Hearst's estate near San Simeon remains Morgan's most famous commission, she built her practice on the hundreds of houses and dozens of clubs, charities, schools, and other organizations of an extensive and influential women's network. Julia Morgan died in San Francisco in 1957.

On Panoramic Hill, Morgan designed three structures. One was an apartment building located at 5-11 Panoramic Way in 1912. This two story basement apartment building of stucco and half-timber was designed in a restrained Tudor mode. The symmetrical structure is U-shaped with a court yard in the back and gable roofs on the back wings. Windows dominate the front elevation so as to take full advantage of the panoramic views of the bay. In the front of the building is a common staircase and entryway for four apartments. Bay views are on the west elevation. The structure is subtle in design with the half-timbering being the predominant design element.

While still working with Ira Hoover in 1912, Morgan designed a brown shingle "apartment house" for Elsie Lee Turner, a childhood friend, at 66 Panoramic Way. In 1929, Morgan designed a single-family dwelling for Professor of Botany Willis Jepson at 11 Mosswood Road. A rectangular wood-frame stucco structure with tile roof, the Mediterranean style house is one room deep which brings light and the outdoors into each room.

Walter Steilberg (1887-1974)

Walter Steilberg was born in Louisville, Kentucky, in 1887, and grew up in San Diego, California. During his high school years, Steilberg spent his summers working in the offices of Irving Gill, widely recognized as one of the most influential architects in modernism. Steilberg moved to Los Angeles after high school graduation and worked for Myron Hunt, most famous for such projects as the Rose Bowl in Pasadena, Caltech, Pomona, and Occidental College campuses, and the Pasadena Public Library. Steilberg studied architecture at the University of California, graduating in 1910 with a bachelor's degree in architecture and minor in structural engineering. Steilberg worked with Julia Morgan for ten years, before establishing his own office in 1920. He continued to acquire significant engineering work from Morgan, including that of the Berkeley City Women's Club, Pasadena YWCA, and work related to Hearst Castle. The devastating 1923 Berkeley fire, which scorched the hills to the north of the University campus and destroyed 400 buildings, inspired Steilberg to develop more fireproof construction materials. He patented a method of making reinforced concrete known as Fabricrete, which utilized thin stucco membranes to create a vertical air cavity.[vii] Steilberg was designing residential structures during the Great Depression. At the start of World War II, Steilberg was 54 years old and rather than

enlisting he worked for a company in Seattle designing army bases. After the war, Steilberg served as structural engineer for the 1949 renovation work of UC Berkeley's Memorial Stadium. He died in 1974.

Steilberg's buildings on Panoramic Hill demonstrate his talent for designing domestic architecture, and there he would find a suitable location for two family homes among other structures. His first family home was located at 38 Panoramic Way, but ended tragically when both his first wife and daughter died from influenza. He was asked to design 1 Orchard Lane for Mrs. Mary V. Ferguson, who would become his mother-in-law, upon marrying Mrs. Ferguson's daughter Elizabeth. There he would raise his family and live for the remainder of his life. While 1 Orchard Lane was under construction he lived in the brown shingle cottage he designed at 1 Panoramic Way.

After the Berkeley hills fire of 1923, Steilberg's designs were intentionally as fireproof as possible: "I watched 400 buildings burn to the ground and decided to build a fireproof house."[viii] His design solutions were to develop the Fabricrete system while also utilizing metal window sashes, tile window sills, and floors of reinforced concrete. To demonstrate the feasibility of the Fabricrete system, Steilberg designed 101 Panoramic Way which is a two car garage at ground level and a two story house above. The reinforced concrete was used throughout and even for a vaulted ceiling in the living room. Steilberg used the same Fabricrete system to build five garage spaces on the ground level with a cottage above at 6 Mosswood Road. This would be rental property for the owner Charles Mel. The five garage openings were covered with muted colored, striped cotton curtains to soften the potential bluntness of the long five car garage. The Fabricrete cottage at 4 Mosswood Lane was built on Steilberg's family property that included 1 Orchard Lane and 1 Panoramic Way. It served as income property.

Steilberg was commissioned to design two other garage-apartment combinations (1 Canyon Road and 14 Mosswood Road) on Panoramic Hill both of which were built with reinforced concrete at ground level with brown shingle cottages on top.

Steilberg also was commissioned to design several houses on the hill, e.g. the brown shingle house for Marion Parsons at 29 Mosswood Road in 1921, the brown shingle house designed for Florence Atkinson in 1928 at 59/61 Panoramic Way, the brown shingle cottage for Lenore O'Connor at 45 Canyon Road in 1924, and the brown shingle residence at 65 Arden Road in 1935 for Alfred Parker.

Walter H. Ratcliff, Jr. (1881-1973)

Walter H. Ratcliff, Jr. was born in London in 1881. The family immigrated to America in 1893, finally settling in Berkeley, California. Ratcliff attended the University of California, where he

majored in chemistry and graduated with honors in 1903. During his undergraduate years Ratcliff developed an interest in architecture and designed his first speculative house in Berkeley in 1902. Over the next few years he designed and built a number of brown-shingle speculative houses in Oakland and Berkeley. In 1904, Ratcliff attended the British School in Rome. Two years later, he returned to Berkeley and worked in the offices of John Galen Howard. By 1908, he had started his own practice, first in San Francisco, then in Berkeley (where it is now the oldest East Bay firm), and continued to design both great and small, mostly English-influenced homes. In 1913, the city of Berkeley appointed Ratcliff City Architect, in which position he developed a reputation for both design and economy. Mills College, the women's college in Oakland, appointed him campus architect in 1923; the school's desire for buildings in the increasingly popular Spanish Colonial Revival style sent Ratcliff traveling to Mexico to sketch buildings of the early Spanish colonial period. From that point forward, he alternated regularly between English and Spanish styles. Walter Ratcliff died in Berkeley in 1973.

On Panoramic Hill, Ratcliff designed the brown shingle single-family structure at 37 Mosswood Road. Built in 1911 for Professor of Classics James Allen, the steeply pitched gable roof and the apparent five stories give height to this house built on the downhill side of the street. The presence of coastal live oaks and the abundance of large casement windows combine to give the experience of living in a large, albeit symmetrical and classical, tree house. Several front gables add lift to the house which is supported by a prominent battered foundation.

Robert T. Paine (1869-1946)

Robert Treat Paine was born in Indiana in 1870. A sculptor and technical innovator, he studied at the Chicago School of Art and also under Augustus Saint-Gaudens at the Art Students League in New York. While in New York, Paine invented a "pointing-up" device for mechanically tracing the outlines of a sculpture and reproducing them on a magnified scale, a process which had previously been done by hand. The first piece thus enlarged was the 1896 model for Saint-Gaudens' William Tecumseh Sherman Monument, a heroic-size bronze group standing at the 59th Street entrance of Central Park in New York City. After working in Italy, Paine moved to Berkeley in 1913 and in 1915 was commissioned to work on the upcoming 1915 Panama-Pacific Exposition in San Francisco. In this capacity he supervised the installation of sculptural embellishments to the Palace of Fine Arts and also created *The Illustrious Obscure*, a fountain on an island at the north end of the Palace of Fine Arts lagoon. Over three decades, Paine was commissioned to do numerous sculptures and sculptural embellishments by both private individuals and public institutions. His wife Mary Trueblood Paine taught mathematics at the Extension Division of the University of California. One of their two daughters, Evelyn Paine, married architect Robert Ratcliff and lived much of her childhood and all of her adult life in the Panoramic Hill neighborhood. Robert T. Paine died in 1946.

On Panoramic Hill in 1917, Paine designed his personal studio at 94 Panoramic Way although the building would serve primarily as his family residence. As a sculptor for numerous public

installations, he was often living on-site and away from home. The house at 94 Panoramic Way has a handcrafted doorknocker, unusual exterior sheathing, e.g. tarpaper in combination horizontal board siding, and an unusual roofline that is nearly flat but slightly cambered. In response to slides caused by an underground spring at 74 Panoramic Way, Paine designed a fountain for the downhill property at 72 Panoramic Way.[ix]

John Hudson Thomas (1878-1945)

John Hudson Thomas was born in Ward, Nevada in 1878 and grew up in the San Francisco Bay Area. After graduating from Yale University in 1902, he enrolled in the architecture program at the University of California and studied under the tutelage of John Galen Howard and Bernard Maybeck. Thomas worked for Howard for a short time, before entering into a partnership with George T. Plowman in 1906. During this period of his career he designed, with Plowman, a series of redwood bungalows which established his reputation. In 1910 he established his own practice. He continued to design wood houses when clients requested them, but he became deeply involved with exploring the visual possibilities of working in stucco. Thomas borrowed ideas from a range of sources and transformed and integrated them into very complex compositions. Among the most influential architects in Thomas's career were Adolf Loos, Otto Wagner, Charles Mackintosh, and Charles Voysey. A member of the Hillside Club, he mastered the archetypal Craftsman style advocated by Charles Keeler, but Thomas's early work also shows a whimsical exploration in Mission, Gothic, Tudor, Art Nouveau, English Cottage, and Viennese Secessionist styles. After 1915, however, Thomas designed more literal interpretations of historical styles, a notable feature of the second Bay Area Tradition. Thomas died in 1945.

John Hudson Thomas only designed one house on Panoramic Hill, and it was a remodel at that. However, his work in 1910 to remodel a farmhouse and the first house in the subdivision of University Hill, was important as an expression of Arts and Crafts period ideals in general and the early environmentalist owners', Edward and Marion Parsons', ideals in particular. The structure at 21 Mosswood Road was transformed from a white clapboard exterior to cladding in brown shingle. The downstairs interior was sheathed entirely in redwood. A modest entry was put on the street side with balconies and a more expansive window mass on the back and side which oriented toward the canyon and bay. The entry of the house was rotated 180 degrees, and one of the design challenges was surely to make what was the back side of the house a suitable entrance while the front of the house used every bit of space for windows, balconies, and interior seating areas with no access from this elevation.

Robert W. Ratcliff (1913 - 1998)

Robert Ratcliff was born on May 6, 1913 in Berkeley, California, where he lived his entire life. In 1936, he graduated from the School of Architecture at the University of California at Berkeley. In

1945, after serving in the Army, he joined the architectural firm of his father, Walter H. Ratcliff. With the Ratcliff firm Robert was responsible for the Mills College general plan and the design of nine buildings there. Much of his work centered around the University of California, not only at Berkeley but at Santa Cruz, San Francisco, San Diego, and Irvine. He was responsible for numerous restoration and renovation projects at the Berkeley campus in the early years of his career. As an architect for the City of Berkeley, he designed the controversial round firehouse on the Alameda, inspired by the triangular site and his desire to build around the mature trees located there. He designed the administration building for the Pacific School of Religion, the Alameda County Administration Building, several buildings at the Lawrence Berkeley National Laboratory, Kaiser Hospital, Fernwald Student Housing and Highland Hospital in Oakland. As someone who worked in the Second Bay Region Style, he was heavily influenced by the work of William Wurster and worked as an alumni advocate to change the curriculum of the UC School of Architecture towards Modernism and away form the Beaux-Art system of which his professors had been advocates. Ratcliff and his wife Evelyn, a landscape architect and the daughter of sculptor Robert Treat Paine, were devoted environmentalists and advocated for open creeks and for development inclined toward preserving and enhancing the natural features of a site. Their son Christopher Ratcliff is the third generation of architects to join the family business, Ratcliff Architects. Robert Ratcliff died in 1998.

Ratcliff designed numerous single-family dwellings on Panoramic Hill, but only two within the district boundaries. More importantly than the number he designed is that he chose the neighborhood as the location for his family home at 74 Panoramic Way. The house was built in stages, but the first stage was as early as 1941, at the beginning of World War II. The particular site he chose was a small niche of land within the precarious second hairpin turn on Panoramic Way and above ground of an underwater spring. He also designed the cottage next door at 72 Panoramic Way.

William Wilson Wurster (1895-1973)

William Wurster was born in Stockton, California in 1895. He was trained in the classical Beaux-Arts tradition at the University of California. His San Francisco-based architectural firm Wurster, Bernard & Emmons was formed in 1945. He designed more than 200 homes, primarily in the 1930's, 1940's, and 1950's, which emphasized the relationship between indoors and outdoors, locating windows to intentionally capitalize on views, simplifying and reducing both interior and exterior detail, using indigenous materials, and exemplifying a sensitivity to site. Utilizing these relationships, one particularly influential residential building was the Gregory Farmhouse, which is a rustic, one-story ranch house in Scotts Valley, California. Wurster was responsible for creating the College of Environmental Design at UC Berkeley, which was interdisciplinary in its approach to design, and included Landscape, Planning, Architecture, and Design Arts. He became the College's dean. The building which houses the College of Environmental Design was named for Wurster and his wife Catherine Bauer Wurster, a notable planner, although he did not design the building as commonly thought. Wurster was designing houses during a period of national economic downturn. The characteristic lack of ostentation in his designs was

especially attractive to wealthy Bay Area residents, who commissioned him to build homes from Lake Tahoe to Big Sur. His designs were warm in comparison to the austere International style of architects, such as Ludwig Mies van der Rohe and Le Corbusier and have been referred to as "soft modernism." Wurster won the prestigious Gold medal from the American Institute of Architects. He died in 1973.

On Panoramic Hill, Wurster designed a boxy garage and cottage combination at 70 Arden Road in 1939 for Miss Eleanor Gardner who lived next door at 76 Arden Road. Wurster also designed an extra dwelling unit to be incorporated into the lower floor of Miss Gardner's home at 76 Arden Road.

Frank Lloyd Wright (1867-1959)

Frank Lloyd Wright was born in Richland Center, Wisconsin. From a young age, buildings fascinated Wright, but rather than architecture he studied civil engineering at the University of Wisconsin in Madison. After school, he moved to Chicago to work for the architectural firm of J. Lyman Silsbee and in 1887, was hired by the firm of Adler and Sullivan who were designing Chicago's Auditorium Building. Louis Sullivan was the young Wright's mentor and "Lieber Meister" (beloved master) and Wright eventually became the chief draftsman and head of the firm's residential design. It was not long before Wright began to develop his own architectural ideas—low, sheltering rooflines, the prominence of the central fireplace and "the destruction of the box" in favor of an open floor plan. Contrary to the firm's policies, Wright began "moonlighting", and was subsequently fired for the betrayal. He left, taking with him, Sullivan's considerable design influence. Wright began his own firm in 1893 and worked out of his now famous Home Studio in Oak Park, an affluent Chicago suburb. In the years between 1893 and 1901, Wright produced 49 buildings—primarily residential. This work is collectively known as the "prairie school". His personal life was dramatic and tragic and included abandonment of his first wife for a highly publicized liaison with Mamah Borthwick Cheney, the wife of a client. She was murdered by a servant, who also set their home on fire. It took Wright over 20 years to recover from these events, but even during the nadir of his career, he completed many important architectural projects including the Imperial Hotel in Tokyo and several concrete Californian residences. In 1932 Wright founded the Taliesin Fellowship. Thirty apprentices came to live and learn with Wright—bringing with them, a reliable stream of fees and sending out into the world--avid Wright disciples. The Fellows program was expanded to Arizona in 1936 and coincided with a rush of new commissions, including Fallingwater, his most famous building. During the war years, few buildings were produced, but under the G.I. bill,Taliesin built 270 houses—many in the simplified Usonian style. Wright also completed large important projects including Price Tower skyscraper, the Guggenheim Museum and the Marin County Civic Center. Frank Lloyd Wright defined "organic architecture" as architecture that is appropriate to time, appropriate to place, appropriate to man. These three concepts characterized his work throughout his long career. He died at the age of 92.

On Panoramic Hill, Wright's designs found suitable expression at 13 Mosswood Road. The house was originally designed in 1939 for Lewis N. Bell in Malibu but was re-sited to the Berkeley location in 1974. The posthumous project was authorized by Olgivanna Wright and overseen by the Taliesen architects. The design, materials and foundation were reworked to suit the northern California character of the new site. The house is an excellent example of Wright's Usonian period and includes characteristic features, e.g. masonry rising directly out of the ground, a centralized kitchen, a carport instead of a garage, and a dining room folded into a corner of the living room and adjacent to the fireplace.[x]

District History

Early Ownership and Planning

No roads led to plot number 80 in 1857 when Julius Kellersberger surveyed and platted the 16,970.68 acre ranch of Vincente and Domingo Peralta.[xi] By 1875, the location of plot 80 was identified as part of the "undivided mountain or hill land" of the Peraltas' ranch – the future Panoramic Hill neighborhood – at the very eastern limit of the land envisioned for development.[xii] Only dense black lines arranged in circular patterns signified the Coastal Range – evidently an impossible place to reach, let alone build. Kellersberger's map would foreshadow the slow and particular development of Panoramic Hill

By the time the College of California intended to relocate from downtown Oakland to the rural, unincorporated town of Berkeley to the north, the College had plenty of undeveloped land including, by then, plot number 80. To raise the money necessary to develop the college campus, the College of California turned to Isaac H. Brayton, as it had done in the past. A Congregationalist minister and large property owner, he owned the College of California buildings located in Oakland as he had loaned money to the College to save it from imminent bankruptcy in 1868. Since the new college planned to continue using the downtown Oakland buildings, for the time being at least, it offered to swap all of its land outside the boundaries of the future Berkeley campus for the mortgage on the buildings of the Oakland campus. The proposed land deal included Plot 80.

The land deal also included a small portion of what was known as the Berkeley Property Tract. As early as 1864 the College of California had acquired undeveloped land east and south of Strawberry Creek and had hired Frederick Law Olmsted to design a suitable residential neighborhood conducive to contemplation and refinement. The land deal included a part of the Berkeley Property Tract that remained undeveloped and outside of, although nearby, the area laid out by Olmsted.[xiii]

By the time the land deal was finalized, it was Isaac Brayton's widow, Mary, who signed on the dotted line making her the property owner of the future Panoramic Hill neighborhood. [xiv] Brayton

did little to foster development on the hill, and upon her decease, her brother, sister, and in-laws inherited the land, and subsequently sold it in 1887 to real estate developer Charles Bailey.

The neighborhood began the following year in 1888 when Bailey subdivided University Terrace and cut a road "to meander…by the most feasible route according to the natural lay of the land…."[xv] The result is Panoramic Way, a narrow road with hairpin turns up the southern half of the hillside.

Also in 1888, Bailey sold one parcel of land to Silas M. Mouser, a San Francisco-based surgeon and physician, who first arrived in California in 1849. In 1895, he sold Mouser another parcel, who at some time between 1888 and 1895 built on the land a relatively modest farm house, planted almond orchards, and called his country retreat "Atalaya", the Spanish word for "watchtower." The local newspaper took note: "Dr. Mouser's house now being constructed on the hillside east of the town is visited by many who regard the situation as being extraordinary for the location of the dwelling. It will certainly open the eyes of many to the desirability of the hills as a handsome location for those who can afford to keep a horse and carriage and do not care for the frequent visits of their friends."[xvi]

By the time of his death in 1906, Bailey had divided his remaining land into parcels and sold all of it as part of University Terrace. Atalaya, meanwhile, remained intact until 1909. That year, just before his death, Silas Mouser deeded the farm to his son who, just one year later, sold it in its entirety to Warren Cheney, former editor of the literary magazine, *The Californian,* who turned to real estate development when his eyesight began to fail. Atalaya gave way to a new subdivision, University Hill,[xvii] which together with University Terrace would comprise the future Panoramic Hill neighborhood.

Residential and Infrastructure Development for Diverse Intellectual Community

Even as the earthquake of 1906 sent thousands of San Franciscans fleeing across the bay to build new homes and new lives in Oakland and Berkeley and even as Francis Marion Smith and the Real Estate Syndicate opened extensive tracts of land and expanded the Key Route rail system to the outreaches of Oakland and north Berkeley, University Terrace and University Hill remained isolated. With no immediate access to public transportation, a single, narrowly winding access road, and steep, irregular lots that were difficult to build upon, prospective homeowners were a self-selecting lot. Situated above the lush flora, running creek and waterfalls of Strawberry Valley and the UC Botanical Gardens, commanding breathtaking views of the San Francisco Bay and beyond, and within walking distance of the University, the hill did ultimately attract nature lovers, artists, bohemians, and intellectuals who sought refuge from the deleterious effects of urban life and industrial development.[xviii]

In 1901 George Boke, who would eventually be Professor of Law in the School of Jurisprudence, hired Bernard Maybeck to design a rustic home with Swiss chalet features at 23 Panoramic Way in the University Terrace subdivision. A widow named Margaret Deane then

hired Boke house builder A.H. Broad to build a shingled home with similar chalet features next door at 25 Panoramic Way. Over the next few years, development picked up pace, allowing J.R. Baird, a real estate developer and future resident of the hill, to report in 1906, "Hill property is demanding good prices and there is an unusual call for lots in the highest sections of Berkeley. We have disposed of several lots in the University Terrace during the past week and have several deals under negotiation."[xix]

By 1910, when Warren Cheney subdivided University Hill, seven more homes had been built along Panoramic Way and Canyon Road in the University Terrace area. Cheney saw promise for University Hill and quickly set about promoting its development. Though owned by the University, nearby Strawberry Valley enhanced the properties' appeal, a fact that was capitalized upon in Cheney's advertisements which noted that "the beautiful property will always be held as a public park."[xx]

Cheney forged two new roads from Panoramic Way into Atalaya, Dr. Mouser's former property, naming them Mosswood Road and Arden Road, and hired Henry Atkins, of Vickery, Atkins and Torrey, a prominent San Francisco fine arts firm, to design a pedestrian pathway connecting Panoramic Way to the new roads. The result was Orchard Lane, a concrete classical stairway, complete with urns, balustrades, and a graceful curve up the hillside. In keeping with the prevailing style of public architecture in the Bay Area at the time, Atkins chose the Beaux-Arts style.[xxi]

Being in walking distance of the University campus, the hill attracted numerous faculty including Charles Rieber, Professor of Logic and Rhetoric, who commissioned architect Ernest Coxhead to design his family home at 15 Canyon Road. Other early faculty residents included, but were not limited to, Albert Whitney, Professor of Mathematics, who built his home at 33 Canyon Road in 1907. Lincoln Hutchinson, Professor of Commerce, followed suit in 1908 with a home at 9 Canyon Road designed by Julia Morgan. George Stratton, first chair of the Department of Psychology, built his home at 67 Canyon Road (formerly 51 Canyon Road) in 1911. Also in 1911 James T. Allen, Professor of Classics, commissioned Walter Ratcliff to design his home at 37 Mosswood Road. Carleton Parker, Professor of Labor Economics, built at 38 Mosswood Road in 1915, and Ernest Hersam, Professor of Mining, built higher up on the hill at 100 Arden Road (formerly 47 Arden Road) also in 1915.[xxii]

Not surprisingly given its location near Strawberry Valley, and the vigorous climb to reach the hill, the neighborhood also attracted nature lovers and early leaders in the environmental movement. One such resident was Edward T. Parsons, a member of the Sierra Club, who aided John Muir in the fight to save Hetch-Hetchy Valley from being dammed. As he was also active in planning club trips and an accomplished writer, Parsons Memorial Lodge was built in his memory. His wife Marion Parsons shared Edward Parsons' enthusiasms, and after his death she continued to host Sierra Club meetings at their home at 21 Mosswood Road. They had transformed the once clapboard farmhouse into a craftsman gem through the capable

design work of John Hudson Thomas. Marion Parsons served as director of the Sierra Club for over 20 years from 1914-1938.

Hill resident Lincoln Hutchinson, resident of 9 Canyon Road, co-founded the Sierra Ski Club in Norden when he was not on campus teaching. Other Sierra Club connections included member Clifton Price, who developed the Julia Morgan-designed apartment building (5-11 Panoramic Way), and Sierra Club charter member Willis Jepson, who was also Professor of Botany at the University and owner of the Julia Morgan designed residence at 11 Mosswood Road.

The label "nature lover" is apt for this generation of hill resident. Willis Jepson made his life's work the classification of native flora and developed the first complete index of California native plants. Moving on the hill in the mid- to late 1920s[xxiii], on the original site of the Mouser farmhouse, and where there are now two residences (11 Mosswood Road and 13 Mosswood Road), he found a suitable environment for a personal research garden. Amelia Sanborn Allen, of 37 Mosswood Road, wife of Classics Professor James T. Allen, was a self-educated ornithologist who developed her avocation while residing in Strawberry Canyon[xxiv] and during vacations to the Sierras, Santa Cruz mountains, and Monterey[xxv] . Of her home in Strawberry Canyon, she wrote

> "Our house is in the middle of a dense grove of young live-oak trees.... The house faces south and up the hill. To the west are three unimproved lots, one of woodland, the others partly open, with several rather large pine trees. To the north and east the oak forest is continuous, interspersed with bay trees; and there is a dense undergrowth of hazel, cascara, poison oak, spiraea, wild rose, snowberry, wild currant, blackberry and brakes, with thimble-berries and wild parsnip filling the cross ravines."[xxvi]

For others, nature was integral to their domestic lifestyle, such as Cornelia Stratton Parker's description of life at 38 Mosswood Road.

> "There, around the redwood table in the living-room, by the window overlooking the Golden Gate, we had the suppers that meant much joy to us and I hope to the friends we gathered around us. There, on the porches overhanging the very Canyon itself we had our Sunday tea-parties." [xxvii]

The remote neighborhood also nurtured intellectual, sophisticated lifestyles, e.g. Ben Lehman, Professor of English, who from his Strawberry Canyon residence at 29 Mosswood Road, corresponded regularly with such famous writers as Sara Bard Field, Gertrude Atherton, John Steinbeck, and Thornton Wilder. Walter Steilberg, who first lived in 38 Panoramic Way then later at 1 Orchard Lane, hosted a panoply of guests including musicians Alfred Hertz, Ernest Block, Albert I. Elkus, Henry Cowell, and Ernst Bacon; writers Thornton Wilder, Leonard Bacon, Austin Wright, Sheldon Cheney, and Charles Keeler; photographers Ansel Adams, Imogen Cunningham, and Cedric Wright; artists Beniamino Bufano, Ralph Stackpole, Ray Boynton, Rudolph Schaefer, Joseph Page-Fredericks, and Robert Paine; fellow architects Eliel

Saarienen, Richard Neutra, Harwell Harris, Warren Callister, Gardner Daily, Julia Morgan, Henry Gutterson, and William Corlett; psychologists Edward C. Tolman and James Stratton, all of whom are just some of the notable people who graced the halls of the Steilberg houses.[xxviii]

The neighborhood naturally attracted faculty because of its proximity to the University campus. But the neighborhood was also near Piedmont Way then the location of Berkeley's finest homes[xxix] and attracted connoisseurs of fine art as well as artists. For example, Frederic Torrey, who lived at 1 Canyon Road, was a principal in Vickery, Atkins and Torrey, a prominent San Francisco fine arts firm that helped to launch the careers of such notable artists as Imogen Cunningham and Maynard Dixon. Torrey apparently took pleasure in shocking the still rather conservative Berkeley art community by hanging Marcel Duchamp's *Nude Descending a Staircase* in prominent view in the entrance foyer of his home at 1 Canyon Road. He had bought the piece at the Armory Show in New York in 1913, which introduced to Americans Europe's most avant-garde artwork and subsequently changed the face of American artwork for the twentieth century.[xxx] Professor Rieber's wife, Winifred Smith Rieber, of 15 Canyon Road, was an esteemed portrait artist whose subjects would eventually include such notable figures as Albert Einstein, Thomas Mann, Phoebe Hearst, and Mrs. Herbert Hoover.[xxxi] Professor Carleton Parker and his wife Cornelia Stratton Parker enjoyed having guests to their home at 38 Mosswood Road; one such guest was artist Alexander Calder, who was then a student at Berkeley High School.[xxxii]

In the 1920 census records, there were a total of 34 households on the hill including a doctor, an accountant, a traveling salesman, five high school or grammar school teachers, one author, three artists, one art dealer, and nine professors. In general, the hill attracted a diverse and progressive crowd living outside mainstream commerce and industry.[xxxiii]

Architectural Development

The first house to be built in University Terrace was the Boke House at 23 Panoramic Way. Built in 1901, this house has become one of Maybeck's most famous designs and exemplifies the basic tenets of vernacular architecture in the California Arts and Crafts movement. The same year, Boke House builder A.H Broad designed and built 25 Panoramic Way. Like the Boke House, the exterior was clad in brown shingles and the interior walls and ceiling covered in redwood. These were small brown shingle houses, and the dwelling next door at 27 Panoramic Way, built soon thereafter in 1903, was no exception.

At the same time as these single-family houses were being built at this remote hillside location, a more population dense three-unit apartment building was designed for 73, 75, & 77 Panoramic Way. The brown shingle dwelling was designed by the builder A.H. Broad and

resembled a single-family dwelling from the outside. Inside, however, each apartment occupied a floor, and there were no connecting interior stairways in between. Balconies dominated the west elevation. Just uphill of the Boke House, a concrete pathway connected the apartment building to the Boke House and to Panoramic Way below.

Although small houses and apartment buildings were being built on Panoramic Way during the first decade of the 20th century, two large single-family houses were designed by Ernest Coxhead at 1 and 15 Canyon Road in 1906 and 1904, respectively. Although the houses on Panoramic Way had views of the bay and distant vistas, the houses on Canyon Road also had views of the nearby UC Botanical Gardens and Strawberry Creek. The emphasis on indoor-outdoor relationships was enhanced with window placement, window size, courtyards, and terraces. The large buildings blended in to their environments with brown shingled exteriors.

As demand for hill locations increased, another apartment building was built in the neighborhood in 1912. Designed by Julia Morgan, the four-unit stucco half-timbered apartment for Professor Price made no apologies for being an apartment building unlike the apartment building at 73, 75, and 77 Panoramic Way. However, it was subtle and restrained as many of Morgan's residential projects were inclined to be.

Before designing the Price Apartments, Morgan designed in 1908 a brown shingled house at 66 Panoramic Way. The dwelling was designed for her childhood friend Elsie Lee Turner, who used the dwelling for income property. A concrete staircase was shared with 64 Panoramic Way, which was also clad in brown shingles. For both buildings, the main entrances were to the side, faced each other, and oriented in a friendly arrangement toward the shared stairway.

Once the University Hill subdivision was developed in 1910, development moved further along Canyon Road and deeper into the canyon. Development moved from the western face of the hill to the northwestern face, which was along the new streets of Mosswood and Arden Roads. Also added was Orchard Lane, an arterial path that facilitated efficient travel, but also served as announcement of a more exceptional development. Formerly Dr. Mouser's almond orchard, the University Hill area also had plenty of fruit trees and an abundance of live oaks.[xxxiv]

In 1910, Edward T. Parsons bought Mouser's farmhouse and had it moved to its present location at 21 Mosswood Road, which allowed for a more prominent view of the canyon than its former location at Panoramic Way's second hairpin turn. John Hudson Thomas was hired to remodel the farmhouse. To enhance the canyon views, he found creative solution in transforming what was originally the back of the house to a street side front entrance so as to utilize the expansive windows in what was originally the front of the house.

Between 1911 and 1915, four professors would build houses in the most remote location possible within the University Hill subdivision. In 1911, Professor George Stratton built a house at the end of Canyon Road, and Professor James Allen built a house at the end of Mosswood Road. Both of these houses were next door to undeveloped University land. In 1915, Professor

Parker built a house at 38 Mosswood, and Professor Hersam built a house at the cul-de-sac of Arden Road (now 100 Arden Road; then 47 Arden). In all these instances, rather than seeking fantastic panoramic views of the bay, they sought refuge at the end of the road, near the undeveloped University land next door, and oriented towards Strawberry Canyon. Although only one of them, 37 Mosswood Road, was designed by an architect, i.e. Walter Ratcliff, all were clad in brown shingles, had steeply pitched gable roofs, and interior walls and ceilings lined in redwood.

The Arts and Crafts movement continued to find expression on Panoramic Hill after World War I. Mabel Baird, who designed 14 and 16 Mosswood Road in 1919 and 1922, respectively, continued in the shingled mode. Even Walter Steilberg, who built an international reputation for his experiments in fireproof construction methods, designed 65 Arden Road in the old shingled manner in 1935.

The Bay Area's Arts and Crafts architecture included many styles, and the variations on the Arts and Crafts theme found expression on Panoramic Hill. A combination of factors influenced architects, builders, and home owners to seek alternatives to brown shingles. Rapid deforestation rendered wood increasingly scarce and expensive to build with, and the devastating Berkeley fire of 1923 made all too clear that the beloved wood houses posed serious fire hazards. In response to these and other factors, architects and home owners turned to Spanish Colonial Revival and Mediterranean styles of domestic architecture and built with concrete, tile, iron, and stucco instead of wood. These new styles still adhered to the basic tenets mentioned above, but also celebrated California's history and climate. In fact, with their flat roofs, thicker walls, and greater use of tile, they were more appropriate for the dry and temperate to warm climate than the often steeply pitched gabled roofs of earlier shingled houses.

The Steilberg compound at 1 Panoramic Way, 1 Orchard Lane, and 4 Mosswood Lane exemplifies the evolution of design away from brown shingle to other materials. Designed and constructed between 1922 and 1929, the property includes a classic shingled cottage (1 Panoramic Way), a half shingle/half-stucco main house (1 Orchard Lane), and a small Fabricrete cottage with a low pitched tile roof with flat terrace on top (4 Mosswood Lane).

Built in 1931, the Fabricrete house at 101 Panoramic Way is Mediterranean influenced while the stucco dwelling at 107 Panoramic Way, built in 1926, is more pueblo-style, but both retain Arts and Crafts features. The Julia Morgan-designed Spanish Colonial Revival stucco house and garage-cottage combination at 11 Mosswood Road likewise retain detail that define the period. The avian-themed hand-wrought iron gate at the front entrance as well as the fireplaces carved by Jules Suppo[xxxv], who did much of the artisanal work at Hearst Castle, underscore this point particularly well.

In 1939, William Wurster designed a boxy wood siding and stucco house with four single stall garages below. By 1941, Robert Ratcliff had committed to building his family home in the niche

of land created by the second hairpin turn on Panoramic Way in synchrony with the Walter Steilberg-designed house at the first hairpin turn on Panoramic Way built in 1928. Meanwhile, Frank Lloyd Wright would be designing a home for a Malibu residence in 1939 that would later be re-sited by Taliesan architects for the northern California location at Panoramic Hill and supervised during construction in 1974.

Changes to the Area Adjacent to the District – California Memorial Stadium

Though the Hayward Fault runs through the first switchback at Panoramic Way and has always posed an imminent threat to the neighborhood, the biggest upheaval to the area was the construction of California Memorial Stadium in Strawberry Canyon, immediately to the north of Canyon Road. The new stadium was originally designed for the flatlands to the south of campus. But after much debate, and to the dismay of residents who had bought property and built their homes with Warren Cheney's promise of unspoiled nature forever surrounding them, the University finally decided to build on the Strawberry Canyon site, permanently and fundamentally changing the natural landscape as well as the residents' relationship to the University.[xxxvi]

Preparations for the construction of the new stadium immediately made apparent how dramatically it would alter the landscape that had shaped the development of Panoramic Hill for decades. Excavation of the 22-acre site began in January 1923. With 24,000 pounds of black powder and 10,000 pounds of dynamite, excavators loosened the ground. A combination of steam shovels, Caterpillar tractors, horse-drawn wagons, and hydraulic machines then removed the earth. Strawberry Creek was also diverted before construction began. By the end of November 1923, Panoramic Hill residents who once overlooked a botanical garden and an untamed bird and wildlife sanctuary now set their gaze upon "a double-decked steel and reinforced concrete structure with 60,000 seats, and underneath the seating decks were training quarters, convenience stations, reception room, handball and tennis courts, and other features. The outer walls were 91 feet high and …bigger than the Coliseum in Rome."[xxxvii]

The University's decision to build at the Strawberry Canyon site launched a litany of complaints to the city; some of the most vocal of them came from residents of Panoramic Hill. Walter Steilberg, who had already designed and built two houses on the hill, and Walter Ratcliff who had designed one house on the hill, along with other prominent architects, e.g. John Galen Howard, Henry H. Gutterson, and William Corlett[xxxviii], whose son would later build on the hill, voiced their concern over the suitability of the site—its seismic vulnerability (the Hayward fault runs through the middle of the site), potential traffic problems, excavating the land, and the destruction of the landscape. Most concerned residents cited the fire chief's assertion that building the stadium at the Strawberry Canyon site would create a dangerous fire hazard, which was the one legal argument that could be sustained. But implicit in many of the complaints was a concern over the destruction of the natural environment around which they had built their homes and lives. Berkeley residents had just witnessed the effects of campus expansion at Bancroft Way, the street running along the southern perimeter of the University campus. The

destruction of trees and demolition of homes with street widening presaged similar devastation during stadium construction. Other Panoramic Hill residents, like Theological Seminary Professor John Buckham at 36 Panoramic Way, made generic references to spoiling the beauty of the city. Still other residents fled. Harold Sawyer, who had recently purchased property on the hill with the intention to build, assured the city that he would not do so if the stadium were built in Strawberry Canyon. A man of his word, Sawyer and his family moved to Oakland instead. Professor of Logic Charles Rieber, who along with his wife the esteemed portrait artist Winifred Smith Rieber, fought a very public battle to conserve the beauty of the area which was adjacent to their home at 15 Canyon Road. In an embarrassing move for the Berkeley campus, the family relocated to southern California, where Rieber became the first Dean of the College of Arts and Sciences at the University of California, Los Angeles, and where ultimately a building was named in his honor.[xxxix]

Neighborhood Development After the Stadium

Despite substantially changing the neighborhood environs, development on the hill continued after the stadium was built. Walter Steilberg had already put in the foundation for 1 Orchard Lane "when the stadium frenzy broke loose."[xl] He had designed a dining room plate glass window to look into the Botanical Gardens from one direction and San Francisco from the other. But the construction of a sorority house across the street on the other side of Panoramic Way in combination with stadium construction rendered these design details pointless. Despite these changes, Walter Steilberg continued to live on the hill, raise his family, and find other inspiration in the neighborhood. Later, in 1941, Robert Ratcliff would begin building his family home on Panoramic Hill at 74 Panoramic Way. He had already designed a small cottage at 72 Panoramic Way, for his mother-in-law, and his father-in-law Robert Paine had already designed a house at 94 Panoramic Way.

Garages would proliferate as many early houses on the hill were built without garages. For example, in 1939 Miss Eleanor Gardner who lived in 76 Arden Road commissioned her friend William Wurster to design a four car garage with apartment above.[xli]

Proximity to the campus and student housing shortages during the 1960's created demand for housing on Panoramic Hill as elsewhere in the City. In 1963, architect Howard Moise was granted a use permit to use 9 Canyon Road for a two-family dwelling.[xlii] One of the small cottages in the condominium association on Canyon Road was subdivided further and was allowed by the City of Berkeley to become a two family dwelling.[xliii] Professor Rieber's former residence at 15 Canyon was sub-divided into three dwelling units. In the 1960's, Professor Buckham's former residence at 36 Panoramic Way received a use permit to operate a boarding house.[xliv]

Development intensified further when on July 20, 1967, the City of Berkeley adopted Ordinance No .4273 which allowed two dwelling units to be built on one lot. But within 10 years,

homeowners had organized and led the effort to down-zone the neighborhood into the most restrictive single-family zone in Berkeley. Known as the Environmental Safety-Residential zone, and in recognition of substandard infrastructure and extreme fire hazards, it effectively halted the rapid proliferation of more intensive development unsuitable for the neighborhood.

Panoramic Hill Subdivisions and Boundaries

The Panoramic Hill Historic District occupies portions of three early subdivisions. These are the Berkeley Property Tract, University Terrace, and University Hill. The first of these was the Berkeley Property Tract, from which parts were resubdivided, one part of which was University Terrace. University Hill was subdivided from Dr. Mouser's farm known as Atalaya.

The relationship between University Terrace and University Hill is like two irregular pieces of a jigsaw puzzle that together make a whole. What is, or is not, in one subdivision or the other is virtually irrelevant to its sense of place.

The unifying element is Panoramic Way by which every motorized traveler must use to enter and leave the neighborhood. So, for example, residential areas not accessed by Panoramic Way, such as Hillside Court on the southwestern façade of Panoramic Hill, are not included in the Panoramic Hill district. The district is defined therefore by common access and not by geography, topography, or even proximity.

The proposed district occupies portions, but not all, of both University Terrace and University Hill. At some point during the hill's development, the two subdivisions accessed by Panoramic Way became known as Panoramic Hill. No subdivision was ever developed by that name, but Panoramic Hill nevertheless became the colloquial identifier. The name of the Mouser's farm, Atalaya, never stuck although it was at one time Warren Cheney's choice for what would become Arden Road. University Terrace and University Hill did not last and without subdivision maps there would hardly be a record of their usage. Instead it was Panoramic Hill that would evolve as a most accurate name since the neighborhood was blessed by panoramic views and one narrow, meandering, impossible, but quaint road by the same name. It is the Panoramic Hill Historic District that holds this history.

EVALUATION

The Panoramic Hill Historic District is eligible for the National Register of Historic Places under criterion C at the local level of significance. Under criterion C, Panoramic Hill is significant in the area of Architecture as a neighborhood that represents the Bay Area Tradition in architecture, primarily the first phase associated with the Arts and Crafts movement. The district includes notable houses by architects Ernest Coxhead, Bernard Maybeck, Julia Morgan, Walter

Steilberg, and others; a distinctive street plan; and paths and steps that provide pedestrian circulation. Since the north side fire of 1923, Panoramic Hill is among the most extensive surviving Arts and Crafts neighborhoods in Berkeley, which was a center of this important early twentieth century architectural movement. The district is significant for the period from 1901, when the first building was constructed, to 1950.

Integrity

Location

The Panoramic Hill Historic District retains integrity of location. It remains today where it was built. One house, Dr. Mouser's farmhouse of 1888, was moved within the district to 21 Mosswood Road in 1910. This change occurred within the period of significance and is part of the history of the district.

Design

The Panoramic Hill Historic District retains integrity of design. The principal changes to the district since the end of the period of significance are the construction of 11 new houses and the alteration of many houses for multi-tenant use. The new houses are compatible in scale and materials; although not contributors, they maintain the pattern of development of single family houses and garages that characterizes the design of the district. The alteration of houses for multi-tenant use is generally not accompanied by major exterior alterations. However, multi-tenant use is often associated with lower maintenance than exists for single-unit residences.

Setting

At a grand scale, the setting of the district is little changed. The major aspects of setting – its isolation on a hill with canyons to the north and south and a panoramic view to the west, are unchanged.

The principal changes in the immediate setting are the development of apartment buildings adjacent to the district on its west side and the expansion of the neighborhood up the hill to the east. The apartment buildings present an incompatible edge to the district. The expanded neighborhood to the east, much of it representing the second and third phases of the Bay Area Tradition, is newer than the area within the district but is generally not incompatible with it. It is possible that parts of this expanded neighborhood could be added to this district in the future when sufficient perspective exists to evaluate it.

Materials

Integrity of materials in the district remains high. The full range of materials, including the dominant redwood, remains present, as do other materials – stucco, tile, iron, concrete, and brick. The use of materials is one of the hallmarks of the Arts and Crafts movement, and the original materials are largely intact.

Workmanship

Integrity of workmanship, like integrity of materials, is high. Likewise, workmanship is a hallmark of Arts and Crafts architecture. Workmanship is a characteristic that is more evident up close, to private visitors, than from public streets and pathways.

Feeling

Integrity of feeling is diminished – in generally superficial and ephemeral ways – notably the parking of cars along the roads, and minor exterior modifications for multi-tenant use.

Association

Integrity of association is high. Because the original houses and other buildings and structures of the district are intact, the association with the history of the district is present.

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[i] Richard Longstreth, *On the Edge of the World: Four Architects in San Francisco at the Turn of the Century* (Berkeley, 1983), pp. 112-113.
[ii] Sally Woodbridge, *Bay Area Houses,* New Edition (Salt Lake City: Gibbs Smith Publisher, 1988), pp. 8-22.
[iii] Kenneth H. Cardwell, *Bernard Maybeck: Artisan, Architect, Artist* (Santa Barbara: Peregrine Smith, Inc., 1977).
[iv] Berkeley Urban Conservation Survey, Folder 1861, BAHA; Cardwell, *Bernard Maybeck*, pp. 74-77.
[v] Interview of John Arthur by Janice Thomas on 10/26/04. Mr. Arthur is author of two books on Bernard Maybeck to be published in the spring 2005 by Gibbs Smith Publisher.
[vi] Ernest Coxhead Collection, 1919-1932 Finding Aid, College of Environmental Design Archives, University of California, Berkeley; http://findaid.oac.cdlib.org/findaid/ark:/13030/tf087001g5/bioghist/112931656.
[vii] John Beach, *Berkeley Gazette,* December 19, 1974.
[viii] Ibid.
[ix] Suzanne B. Riess, editor, *The Julia Morgan Architectural History Project* Vol. 1 (Berkeley: The Regents of the University of California, 1976), p. 103.
[x] Interview of Jeanne Allen by Janice Thomas on 10/30/04.
[xi] Julius Kellersberger, *Map of the Ranchos of Vincente and Domingo Peralta*, January 21, 1857, Alameda County Office of the Recorder, Book 17, p. 12.
[xii] *Map of the Undivided Mountain or Hill Land of the Vicente and Domino Peralta Rancho*, March 2, 1875.
[xiii] Berkeley Architectural Heritage Association, *Frederick Law Olmsted's Berkeley Legacy – Piedmont Way and The Berkeley Property Tract* (Berkeley: 1995), p. 1-5.

[xiv] Ibid.; *Official and Historical Atlas Map of Alameda County*, California (Oakland: Thompson & West, 1878), pp. 112-13; Verne Stadtman, *The University of California: 1868-1968,* p. 40.
[xv] *Alameda County Book of Deeds 350/77.*
[xvi] *Berkeley Herald*, November 5, 1888.
[xvii] Frank Soulé, Jr., *Map of Strawberry Valley and Vicinity Showing the Natural Resources of the Water Supply of the University of California with Proposed System of Reservoirs, Distributing Pipes, etc.* (Lith. Britton Rey & Co.: San Francisco, 175); Survey map of University Terrace, 1888, BAHA; *Alameda County Book of Deeds325/159-163, 330/43, 50/75-78, 559/355-56, 1637/446-48, 1754/186-189.*
[xviii] Kellersberger; Alameda County Office of the Recorder, Book 17, p. 12; for a history of the Key Route system and Reality Syndicate, see George Hildebrand, *Borax Pioneer: Francis Marion Smith* (San Diego: Horwell-North Books, 1982).
[xix] "Realty Men Report many Sales and an Advance in Prices," in Richard Schwartz, *Berkeley 1900: Daily Life at the Turn of the Century* (RSB Books, 2000), p. 183.
[xx] University Hill," advertisement in *Berkeley Gazette,* August 16, 1910; "More about University Hill," advertisement in *Berkeley Gazette*, August 17, 1910, p. 8.
[xxi] The Bay Area boasts some of the greatest concentration of Beaux-Arts architecture in the United States. Phoebe Hearst, widow of mining tycoon and United States Senator George Hearst and mother of politician and media mogul, William Randolph Hearst, for example, underwrote an international competition in 1898 to find an architect who could design a new University of California campus worthy of international prestige; virtually all the applicants, including the architect of the winning design, studied for some period at the Ecole des Beaux-Arts. San Francisco also took advantage of its ruined state following the 1906 earthquake to construct a city hall and civic center in the Beaux-Arts style as well. John Bakewell and Arthur Brown, Jr., both Beaux-Arts graduates and contemporaries of Julia Morgan, designed and implemented the complex as it stands today. See Gray Brechin, *Imperial San Francisco: Imperial San Francisco: Urban Power, Earthly Ruin* (Berkeley, 1999); Richard Longstreth, *On the Edge of the World: Four Architects in San Francisco at the Turn of the Century* (Berkeley, 1983); Roy Lowe, *"A Western Acropolis of Learning": The University of California in 1897* (Berkeley, 1996).
[xxii] Anthony Bruce, et al., *Panoramic Hill: Berkeley's Most Romantic Neighborhood,* revised edition (Berkeley: Berkeley Architectural Heritage Association, 1996).
[xxiii] Jepson may have lived in the garage apartment, which was built before the house was completed in 1929. However, available records are unclear on this point.
[xxiv] Amelia Sanborn Allen, "Birds of the Berkeley Hillside," in *The Condor* Vol. XVII (March 1915), p. 78.
[xxv] Amelia Sanborn Allen, *Chasing Wrens* (Berkeley: Gillick Press, 1945).
[xxvi] Ibid, p. 78.
[xxvii] Cornelia Stratton Parker, *An American Idyll: The Life of Carleton H. Parker* (Boston, 1919): pp. 90-91.
[xxviii] Berkeley Urban Conservation Survey, Folder 1862, BAHA.
[xxix] Lesley Emmington Jones, *Frederick Law Olmsted's Berkeley Legacy – Piedmont Way and The Berkeley Property Tract (Berkeley: Berkeley Architectural Heritage Association, 1995).*
[xxx] Ibid.
[xxxi] City of Berkeley Landmark, June 7, 1999.
[xxxii] Interview of Mrs. Cornelia Stratton Parker by J.R.K. Kantor, University Archivist and Panoramic Hill resident who lived in 38 Mosswood Road from 95-1957 and interviewed Mrs. Parker during the period of 1962 until her death some years later.
[xxxiii] 1920 United States Federal Census, Alameda County, City of Berkeley, California, Enumeration District 174.
[xxxiv] Allen, p. 78; Early undated photograph of *"Berkeley Highlands - Side Hill Homes"* (Berkeley Architectural Heritage Association, Archives).
[xxxv] Interview of Frances Fischer, current owner of 11 Mosswood Road by Karen McNeill, June 28, 2004.

[xxxvi] Siegel and Strain, Architects, "Historic Structure Report: University of California, Berkeley, California Memorial Stadium," prepared for the University of California Office of Planning, Design, and Construction, September 23, 1999, pp. 16-23.
[xxxvii] Ibid., pp. 21-32.
[xxxviii] Susan Cerny, "Berkeley Observed; Memorial Stadium – controversial from the start", *Berkeley Daily Planet*, September 2, 9, 12 of 2003.
[xxxix] City of Berkeley Landmark, June 7, 1999.
[xl] Riess, p. 106.
[xli] Interview of Robert Breecker, current owner of 76 Arden Road, by Janice Thomas, 10/15/04.
[xlii] City of Berkeley Use Permit #5089, 1/2/63.
[xliii] City of Berkeley Use Permit #5021, 7/3/73.
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AUG 11 2005
NATIONAL REGISTER OF HISTORIC PLACES
NATIONAL PARK SERVICE

VERBAL BOUNDARY DESCRIPTION

See Sketch Map.

BOUNDARY JUSTIFICATION

Panoramic Hill is geographically distinguished by Strawberry Canyon to the north and Hamilton Gulch to the south. The hill's borders are naturally articulated. Situated in the East Bay Hills, the hillside's predominant orientation is west.

The lower elevations of the hillside neighborhood have a concentration of houses, garages, and landscape features that fit all of the criteria of the proposed historic district. Although a few structures built at higher elevations would meet all of the criteria, they lie within an area that was largely developed after the historical period in question.

United States Department of the Interior
National Park Service

National Register of Historic Places Continuation Sheet

Section number ___ Page

Panoramic Hill Historic District
Photographic Directory: **5 x 7 - Black and White Fiber-Reprints**

The information in 3, 4, 5 below applies to all 5 x 7 - black and white fiber reprints:

3. Photographer: Fredrica Drotos
4. Date of Photograph(s): 2004
5. Location of Original Negative(s): 16 Mosswood Road, Berkeley, California

Key: R indicates the photograph is a fiber reprint

Direction of Camera:

4.1. (R)	East
11.1. (R)	Northeast
11.2. (R)	North
23.3. (R)	Southwest
27.1. (R)	Southeast
31.1. (R)	Southeast
39.2. (R)	South
42.1. (R)	Northwest
49.1. (R)	Northeast
61.a.1. (R)	North
z.1. (R)	South
v.2.(R)	Northwest
v.3.(R)	West
v.6. (R)	Northwest
v.7. (R)	South

PANORAMIC HILL HISTORIC DISTRICT : BERKELEY CALIFORNIA

SKETCH MAP #1 - GENERAL OVERVIEW

BUILDINGS SITES & STRUCTURES KEY

Contributing are BLACK — **Non-Contributing are GREY**

1. 1 Panoramic Way
1a. 1 Panoramic Way playhouse
2. 5, 7, 9, 11 Panoramic Way
3. 20, 22, 24 Panoramic Way
3a. 18 Panoramic Way
4. 23 Panoramic Way
4a. 23 Panoramic Way garage
5. 25 Panoramic Way
5a. 25 Panoramic Way garage
6. 27 Panoramic Way
7. 30 Panoramic Way
8. 32 Panoramic Way
9. 36 Panoramic Way
10. 38 Panoramic Way
11. 59 & 61 Panoramic Way
11a. 59 & 61 Panoramic Way garage
12. 60 Panoramic Way
12a. 60 Panoramic Way wall
13. 62 Panoramic Way
13a. 62 Panoramic Way garage
14. 64 Panoramic Way
14a. 64 Panoramic Way garage
15. 65 & 67 Panoramic Way
16. 66 Panoramic Way
17. 70 Panoramic Way
18. 72 Panoramic Way
18a. 72 Panoramic Way fountain
19. 74 Panoramic Way
20. 73, 75, 77 Panoramic Way
21. 94 Panoramic Way
22. 101 Panoramic Way
23. 107 Panoramic Way
24. 1 Canyon Road
24a. 1 Canyon Road stairs & wall
25. 5 Canyon Road
26. 9 Canyon Road
26a. 9 Canyon Road garage
27. 15 Canyon Road
27a. 15 Canyon Road garage
27b. 15 Canyon Road wall
28. 33 Canyon Road
29. 37 Canyon Road
30. 39 Canyon Road
31. 45 Canyon Road
32. 47 Canyon Road
33. 49 Canyon Road
34. 51 Canyon Road
35. 53 & 57 Canyon Road
36. 61 Canyon Road
37. 67 Canyon Road
37a. 67 Canyon Road garage
38. 4 Mosswood Lane
39. 6 Mosswood Road
40. 8 Mosswood Road
41. 10 Mosswood Road
42. 11 Mosswood Road
42a. 11 Mosswood Road garage
43. 13 Mosswood Road
43a. 13 Mosswood Road wall
44. 14 Mosswood Road
44a. 14 Mosswood Road garage
44b. 14 Mosswood Road cottage
44c. 14 Mosswood Road wall
46. 20 Mosswood Road
46a. 20 Mosswood Road garage
47. 21 Mosswood Road
47a. 21 Mosswood Road garage
48. 29 Mosswood Road
48a. 29 Mosswood Road garage
49. 37 Mosswood Road
49a. 37 Mosswood Road wall
50. 38 Mosswood Road
51. 1 Orchard Lane
52. 3 Orchard Lane
53. 19 Orchard Lane
54. 21 Orchard Lane
55. 59 Arden Road
56. 65 Arden Road
57. 70 Arden Road
58. 76 Arden Road
59. 89 Arden Road
59a. 89 Arden Road wall
60. 95 & 99 Arden Road
61. 100 Arden Road
61a. 100 Arden Road garage
61b. 100 Arden Road wall

W Orchard Lane – Lower
X Orchard Lane – Upper
Y Mosswood Lane
Z Arden Steps

GRAPHIC KEY

61a **Structure Numbers:** Keyed to contents of Section7

Public Pathways: Triangle icon appears towards the beginning & end of pathway.

Historic District in WHITE

Outside of District in GREY

The primary graphic source for these maps is the 1923 Sanborne Map for Panoramic Hill. Modern parcel boundaries and additional structures not contained in the Sanborne Map were derived from current APN Map. Graphic details depicting stairway features were added for the Orchard Lane, Mosswood Lane and Arden Steps public pathways. Also added were stair and wall features for contributing structures.

Map created November 2004 for the Panoramic Hill Historic District: Alameda County, Berkeley CA

0 50 100 150
Distance in feet

PANORAMIC WAY
ARDEN RD
ARDEN STEPS
MOSSWOOD RD
MOSSWOOD LANE
ORCHARD LANE
CANYON RD
HILLSIDE CT
PROSPECT
STADIUM RIMWAY RD
GROUNDS OF UNIVERSITY OF CALIFORNIA
CALIFORNIA MEMORIAL STADIUM
Seating Capacity: 73,000
5423
5382

PANORAMIC HILL HISTORIC DISTRICT : BERKELEY CALIFORNIA

SKETCH MAP #2 - Contributing / Non-Contributing

BUILDINGS SITES & STRUCTURES KEY

Contributing are BLACK	Non-Contributing are GREY
1. 1 Panoramic Way	48. 29 Mosswood Road
1a. 1 Panoramic Way playhouse	48a. 29 Mosswood Road garage
2. 5, 7, 9, 11 Panoramic Way	49. 37 Mosswood Road
3. 20, 22, 24 Panoramic Way	49a. 37 Mosswood Road wall
3a. 18 Panoramic Way	50. 38 Mosswood Road
4. 23 Panoramic Way	51. 1 Orchard Lane
4a. 23 Panoramic Way garage	52. 3 Orchard Lane
5. 25 Panoramic Way	53. 19 Orchard Lane
5a. 25 Panoramic Way garage	54. 21 Orchard Lane
6. 27 Panoramic Way	55. 59 Arden Road
7. 30 Panoramic Way	56. 65 Arden Road
8. 32 Panoramic Way	57. 70 Arden Road
9. 36 Panoramic Way	58. 76 Arden Road
10. 38 Panoramic Way	59. 89 Arden Road
11. 59 & 61 Panoramic Way	59a. 89 Arden Road wall
11a. 59 & 61 Panoramic Way garage	60. 95 & 99 Arden Road
12. 60 Panoramic Way	61. 100 Arden Road
12a. 60 Panoramic Way wall	61a. 100 Arden Road garage
13. 62 Panoramic Way	61b. 100 Arden Road wall
13a. 62 Panoramic Way garage	
14. 64 Panoramic Way	W Orchard Lane – Lower
14a. 64 Panoramic Way garage NC	X Orchard Lane – Upper
15. 65 & 67 Panoramic Way	Y Mosswood Lane
16. 66 Panoramic Way	Z Arden Steps
17. 70 Panoramic Way	
18. 72 Panoramic Way	
18a. 72 Panoramic Way fountain	
19. 74 Panoramic Way	
20. 73, 75, 77 Panoramic Way	
21. 94 Panoramic Way	
22. 101 Panoramic Way	
23. 107 Panoramic Way	
24. 1 Canyon Road	
24a. 1 Canyon Road stairs & wall	
25. 5 Canyon Road	
26. 9 Canyon Road	
26a. 9 Canyon Road garage	
27. 15 Canyon Road	
27a. 15 Canyon Road garage	
27b. 15 Canyon Road wall	
28. 33 Canyon Road	
29. 37 Canyon Road	
30. 39 Canyon Road	
31. 45 Canyon Road	
32. 47 Canyon Road	
33. 49 Canyon Road	
34. 51 Canyon Road	
35. 53 & 57 Canyon Road	
36. 61 Canyon Road	
37. 67 Canyon Road	
37a. 67 Canyon Road garage	
38. 4 Mosswood Lane	
39. 6 Mosswood Road	
40. 8 Mosswood Road	
41. 10 Mosswood Road	
42. 11 Mosswood Road	
42a. 11 Mosswood Road garage	
43. 13 Mosswood Road	
43a. 13 Mosswood Road wall	
44. 14 Mosswood Road	
44a. 14 Mosswood Road garage	
44b. 14 Mosswood Road cottage	
44c. 14 Mosswood Road wall	
46. 20 Mosswood Road	
46a. 20 Mosswood Road garage	
47. 21 Mosswood Road	
47a. 21 Mosswood Road garage	

ICON KEY

- Contributing Building
- Non-Contributing Building
- Additional Contributing Structure such as Wall, Stair or Fountain

0 50 100 150
Distance in feet

Panoramic Hill Historic District : Alameda County
Berkeley, California - November 2004 v.2

PANORAMIC WAY
ARDEN STEPS
ARDEN RD
MOSSWOOD RD
MOSSWOOD LANE
ORCHARD LANE
CANYON RD
HILLSIDE CT
HILLSIDE
STEEP
STADIUM RIMWAY RD
GROUNDS OF UNIVERSITY OF CALIFORNIA
CALIFORNIA MEMORIAL STADIUM
SEATING CAPACITY: 73,000
PROSPECT
5423
5382

PANORAMIC HILL HISTORIC DISTRICT : BERKELEY CALIFORNIA

SKETCH MAP #3 - B&W Photo Locations

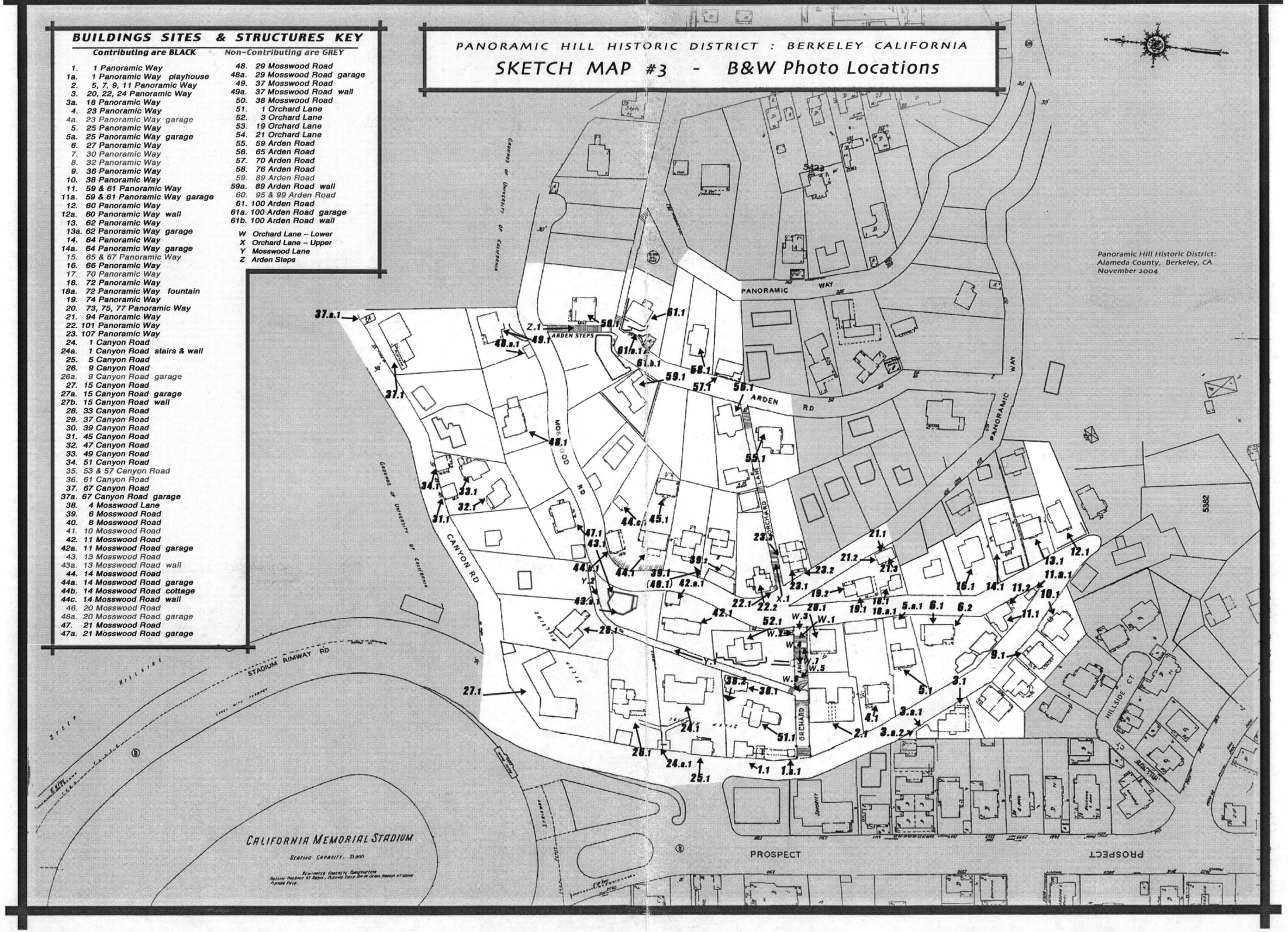
Panoramic Hill Historic District:
Alameda County, Berkeley, CA
November 2004

BUILDINGS SITES & STRUCTURES KEY

Contributing are BLACK — *Non-Contributing are GREY*

1. 1 Panoramic Way
1a. 1 Panoramic Way playhouse
2. 5, 7, 9, 11 Panoramic Way
3. 20, 22, 24 Panoramic Way
3a. 18 Panoramic Way
4. 23 Panoramic Way
4a. 23 Panoramic Way garage
5. 25 Panoramic Way
5a. 25 Panoramic Way garage
6. 27 Panoramic Way
7. 30 Panoramic Way
8. 32 Panoramic Way
9. 36 Panoramic Way
10. 38 Panoramic Way
11. 59 & 61 Panoramic Way
11a. 59 & 61 Panoramic Way garage
12. 60 Panoramic Way
12a. 60 Panoramic Way wall
13. 62 Panoramic Way
13a. 62 Panoramic Way garage
14. 64 Panoramic Way
14a. 64 Panoramic Way garage
15. 65 & 67 Panoramic Way
16. 66 Panoramic Way
17. 70 Panoramic Way
18. 72 Panoramic Way
18a. 72 Panoramic Way fountain
19. 74 Panoramic Way
20. 73, 75, 77 Panoramic Way
21. 94 Panoramic Way
22. 101 Panoramic Way
23. 107 Panoramic Way
24. 1 Canyon Road
24a. 1 Canyon Road stairs & wall
25. 5 Canyon Road
26. 9 Canyon Road
26a. 9 Canyon Road garage
27. 15 Canyon Road
27a. 15 Canyon Road garage
27b. 15 Canyon Road wall
28. 33 Canyon Road
29. 37 Canyon Road
30. 39 Canyon Road
31. 45 Canyon Road
32. 47 Canyon Road
33. 49 Canyon Road
34. 51 Canyon Road
35. 53 & 57 Canyon Road
36. 61 Canyon Road
37. 67 Canyon Road
37a. 67 Canyon Road garage
38. 4 Mosswood Lane
39. 6 Mosswood Road
40. 8 Mosswood Road
41. 10 Mosswood Road
42. 11 Mosswood Road
42a. 11 Mosswood Road garage
43. 13 Mosswood Road
43a. 13 Mosswood Road wall
44. 14 Mosswood Road
44a. 14 Mosswood Road garage
44b. 14 Mosswood Road cottage
44c. 14 Mosswood Road wall
46. 20 Mosswood Road
46a. 20 Mosswood Road garage
47. 21 Mosswood Road
47a. 21 Mosswood Road garage
48. 29 Mosswood Road
48a. 29 Mosswood Road garage
49. 37 Mosswood Road
49a. 37 Mosswood Road wall
50. 38 Mosswood Road
51. 1 Orchard Lane
52. 3 Orchard Lane
53. 19 Orchard Lane
54. 21 Orchard Lane
55. 59 Arden Road
56. 65 Arden Road
57. 70 Arden Road
58. 76 Arden Road
59. 89 Arden Road
59a. 89 Arden Road wall
60. 95 & 99 Arden Road
61. 100 Arden Road
61a. 100 Arden Road garage
61b. 100 Arden Road wall

W Orchard Lane – Lower
X Orchard Lane – Upper
Y Mosswood Lane
Z Arden Steps



PANORAMIC HILL HISTORIC DISTRICT : BERKELEY CALIFORNIA

SKETCH MAP #4 - Color Slide + B&W photo View Locations

BUILDINGS SITES & STRUCTURES KEY

Contributing are BLACK — **Non-Contributing are GREY**

1. 1 Panoramic Way
1a. 1 Panoramic Way playhouse
2. 5, 7, 9, 11 Panoramic Way
3. 20, 22, 24 Panoramic Way
3a. 18 Panoramic Way
4. 23 Panoramic Way
4a. 23 Panoramic Way garage
5. 25 Panoramic Way
5a. 25 Panoramic Way garage
6. 27 Panoramic Way
7. 30 Panoramic Way
8. 32 Panoramic Way
9. 36 Panoramic Way
10. 38 Panoramic Way
11. 59 & 61 Panoramic Way
11a. 59 & 61 Panoramic Way garage
12. 60 Panoramic Way
12a. 60 Panoramic Way wall
13. 62 Panoramic Way
13a. 62 Panoramic Way garage
14. 64 Panoramic Way
14a. 64 Panoramic Way garage
15. 65 & 67 Panoramic Way
16. 66 Panoramic Way
17. 70 Panoramic Way
18. 72 Panoramic Way
18a. 72 Panoramic Way fountain
19. 74 Panoramic Way
20. 73, 75, 77 Panoramic Way
21. 94 Panoramic Way
22. 101 Panoramic Way
23. 107 Panoramic Way
24. 1 Canyon Road
24a. 1 Canyon Road stairs & wall
25. 5 Canyon Road
26. 9 Canyon Road
26a. 9 Canyon Road garage
27. 15 Canyon Road
27a. 15 Canyon Road garage
27b. 15 Canyon Road wall
28. 33 Canyon Road
29. 37 Canyon Road
30. 39 Canyon Road
31. 45 Canyon Road
32. 47 Canyon Road
33. 49 Canyon Road
34. 51 Canyon Road
35. 53 & 57 Canyon Road
36. 61 Canyon Road
37. 67 Canyon Road
37a. 67 Canyon Road garage
38. 4 Mosswood Lane
39. 6 Mosswood Road
40. 8 Mosswood Road
41. 10 Mosswood Road
42. 11 Mosswood Road
42a. 11 Mosswood Road garage
43. 13 Mosswood Road
43a. 13 Mosswood Road wall
44. 14 Mosswood Road
44a. 14 Mosswood Road garage
44b. 14 Mosswood Road cottage
44c. 14 Mosswood Road wall
46. 20 Mosswood Road
46a. 20 Mosswood Road garage
47. 21 Mosswood Road
47a. 21 Mosswood Road garage
48. 29 Mosswood Road
48a. 29 Mosswood Road garage
49. 37 Mosswood Road
49a. 37 Mosswood Road wall
50. 38 Mosswood Road
51. 1 Orchard Lane
52. 3 Orchard Lane
53. 19 Orchard Lane
54. 21 Orchard Lane
55. 59 Arden Road
56. 65 Arden Road
57. 70 Arden Road
58. 76 Arden Road
59. 89 Arden Road
59a. 89 Arden Road wall
60. 95 & 99 Arden Road
61. 100 Arden Road
61a. 100 Arden Road garage
61b. 100 Arden Road wall

W Orchard Lane – Lower
X Orchard Lane – Upper
Y Mosswood Lane
Z Arden Steps

Panoramic Hill Historic District
Alameda County - Berkeley, CA
November 2004

PANORAMIC WAY
ARDEN RD
ARDEN STEPS
MOSSWOOD RD
ORCHARD LANE
CANYON RD
HILLSIDE
STREET
GROUNDS OF UNIVERSITY OF CALIFORNIA
STADIUM RIMWAY RD
CALIFORNIA MEMORIAL STADIUM
SEATING CAPACITY- 73,000
PROSPECT
HILLSIDE CT
5382
5423
V.1
V.2
V.3
V.4.S
V.5.S
V.6
22.S
18.S
42.S
27.S
1.a.S

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
EVALUATION/RETURN SHEET

REQUESTED ACTION: NOMINATION

PROPERTY NAME: Panoramic Hill

MULTIPLE NAME:

STATE & COUNTY: CALIFORNIA, Alameda

DATE RECEIVED: 4/07/05 DATE OF PENDING LIST: 5/11/05
DATE OF 16TH DAY: 5/26/05 DATE OF 45TH DAY: 5/21/05
DATE OF WEEKLY LIST:

REFERENCE NUMBER: 05000424

REASONS FOR REVIEW:

APPEAL:	N	DATA PROBLEM:	N	LANDSCAPE:	N	LESS THAN 50 YEARS:	N
OTHER:	N	PDIL:	N	PERIOD:	N	PROGRAM UNAPPROVED:	N
REQUEST:	Y	SAMPLE:	N	SLR DRAFT:	N	NATIONAL:	N

COMMENT WAIVER: N

___ACCEPT ___RETURN ___REJECT _____DATE

ABSTRACT/SUMMARY COMMENTS:

RETURN

SEE ATTACHED COMMENTS

RECOM./CRITERIA Return

REVIEWER Paul R Lusignan DISCIPLINE Historian

TELEPHONE _____ DATE 5/20/05

DOCUMENTATION see attached comments (Y)/N see attached SLR Y/N

If a nomination is returned to the nominating authority, the nomination is no longer under consideration by the NPS.

PANORAMIC HILL
Alameda County, CA

National Register of Historic Places - Return Comments:

The current documentation is being returned so that technical and substantive issues regarding the nomination can be addressed. The nomination fails to adequately address the "exceptional" significance required for the property at 13 Mosswood Road under Criteria Consideration G *(Properties That Have Achieved Significance Within the Last Fifty Years)*. The association of this property with the working career of architect Frank Lloyd Wright is clouded by the fact that the design was not completed until 1975, was built at a totally different site than originally planned, and was "reworked" in design, materials, and foundation by the contracting architects. In order to justify individual eligibility for the theme of Architecture, the nomination must provide substantial additional information and comparative analysis.

- **Format**
  The nomination form was poorly copied onto the final archival paper, leaving most pages slightly askew. In addition, the continuation sheets fail to contain identifying information regarding the name of the property and the location (county, state) of the district (see *NR Bulletin,* pp. 60) Please revise the forms as necessary.

- **Resource Count**
  The current resource count identified on the cover form is incorrect (the totals do not add up). Please double-check the individual counts as well (The narrative notes 17 non-contributing buildings.)

- **Significance**
  The period of significance should be revised to remove 1975, unless special justification can be provided regarding the Frank Lloyd Wright-inspired design (see comments below).

- The significant dates should either include specific dates of important events or be left blank.

- *Building #43. 13 Mosswood Road*
  The "exceptional significance" of this property is unsupported by the current documentation. While the original design by Frank Lloyd Wright was prepared in 1939, the current property is clearly and effectively a product of the 1970s. The Panoramic Hill property made use of a 35 year-old plan designed by Wright for a specific client, at a specific time, in a totally different location and setting. The nomination itself acknowledges that the "design, materials, and foundation were reworked" by Taliesen Foundation architects in fitting the property to its new restrictive site. These circumstances raise the serious question of wether the extant resource represents an original work of design by a "master architect," or a late twentieth century work of avid devotees (owners and architects) of the master architect seeking to perpetuate the important design ideals and forms of Wright's earlier work. While the original plans by Wright might be

noteworthy for their place in the evolving career of Frank Lloyd Wright, the 1975 construction as reinterpreted by Taliesin Architects is not a historic Frank Lloyd Wright building.

In light of the extensive body of Frank Lloyd Wright designs across the United States reflecting various aspects of his prolific career, the justification for the exceptional significance of this property appears extremely weak. The only scholarly citation included in the references is William Storrer's 1991 catalog publication. Normally, the justification for architectural properties less than fifty years old requires substantial scholarly recognition from either the time of construction or later objective sources.

We recommend that the property be reconsidered as a non-contributing building built after the period of significance. If at a later date substantial new justification can be provided for the property its status can be changed or a separate individual nomination can be prepared. (The resource count, nomination narrative, and the resource maps should be revised to account for the revised status of this property.)

Additional Documentation

- The district maps contain two corrections added at a later date for the properties at 89 and 99 Arden Road. If the nomination will be revising the documentation for 13 Mosswood Road, all corrections should be incorporated into a single revised map(s).

- **Photographic Documentation**
  The contemporary black and white photographs appear to have a tint to them and were likely printed using color processing and/or papers (see *Kodak Royal* watermark imprint on reverse). These fail to meet current National Register archival standards. Please provide new photographs processed according to the National Register guidelines. For purposes of this nomination a few representative views of the district buildings will be sufficient.

If you have questions regarding these comments, please contact me directly at the number listed below.

Paul R. Lusignan, Historian
(for) Keeper of the National Register
(202) 354-2229

5/20/05
Date

A:\panoramic.rtn

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
EVALUATION/RETURN SHEET

REQUESTED ACTION: RESUBMISSION

NAME: Panoramic Hill

MULTIPLE
NAME:

STATE & COUNTY: CALIFORNIA, Alameda

DATE RECEIVED: 10/21/05 DATE OF PENDING LIST:
DATE OF 16TH DAY: DATE OF 45TH DAY: 12/05/05
DATE OF WEEKLY LIST:

REFERENCE NUMBER: 05000424

NOMINATOR: STATE

DETAILED EVALUATION: Y

___ACCEPT ___RETURN ___REJECT_____DATE

ABSTRACT/SUMMARY COMMENTS:

Panoramic Hills meets National Register Criterion C in the area of Architecture, as a cohesive neighborhood of substantial residential designs reflecting the Bay Area Tradition in architecture, primarily the early Arts & Crafts-inspired phase. Architects contributing to the design of the district included influential regional designers such as Ernest Coxhead, Bernard Maybeck, Julia Morgan, and Walter Steilberg, among others.

RECOM./CRITERIA Accept Criterion C

REVIEWER Paul R. Lusignan DISCIPLINE Historian

TELEPHONE_____DATE 10/21/05

DOCUMENTATION see attached comments Y/N see attached SLR Y/(N)

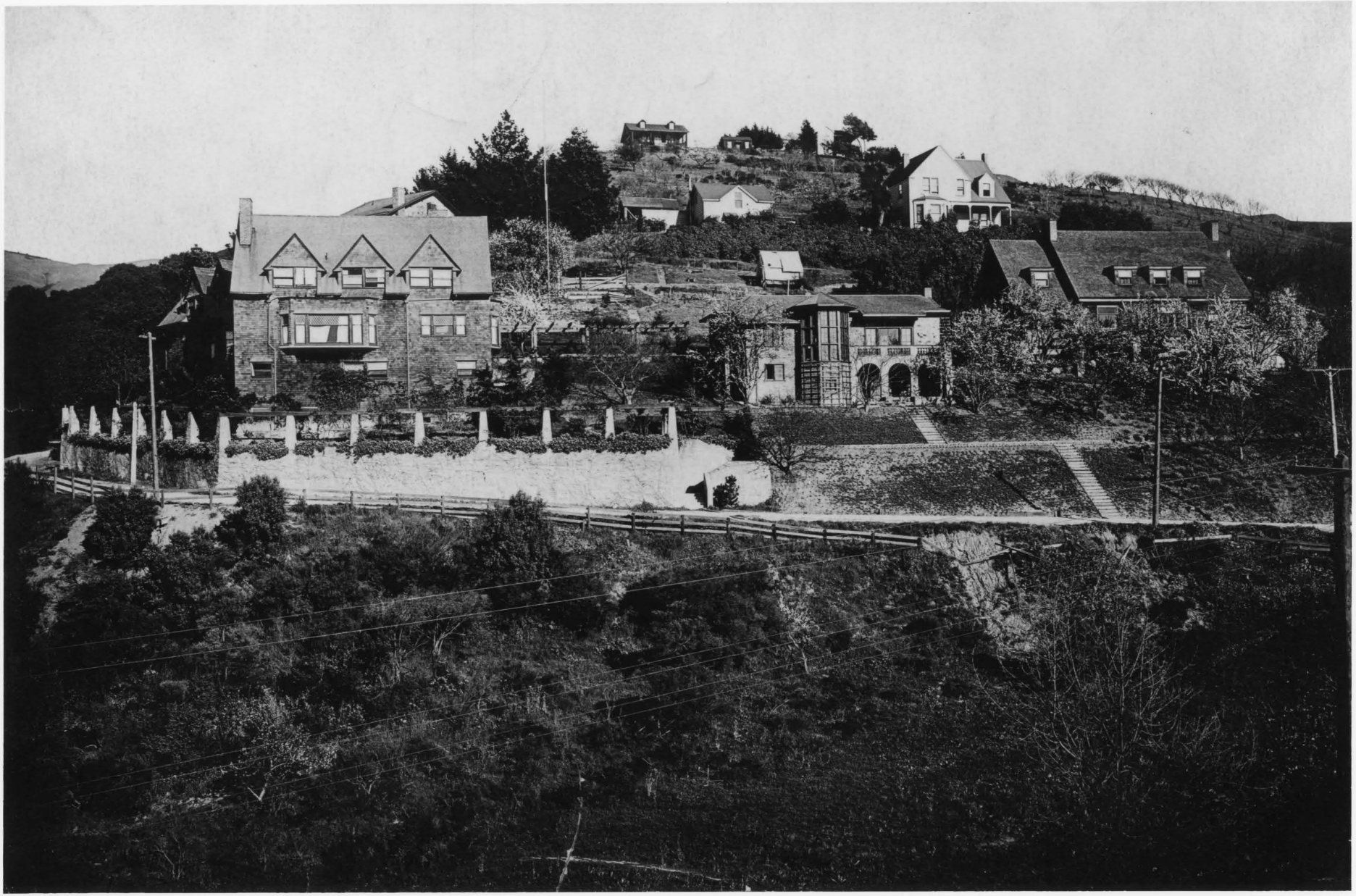
If a nomination is returned to the nominating authority, the nomination is no longer under consideration by the National Park Service.



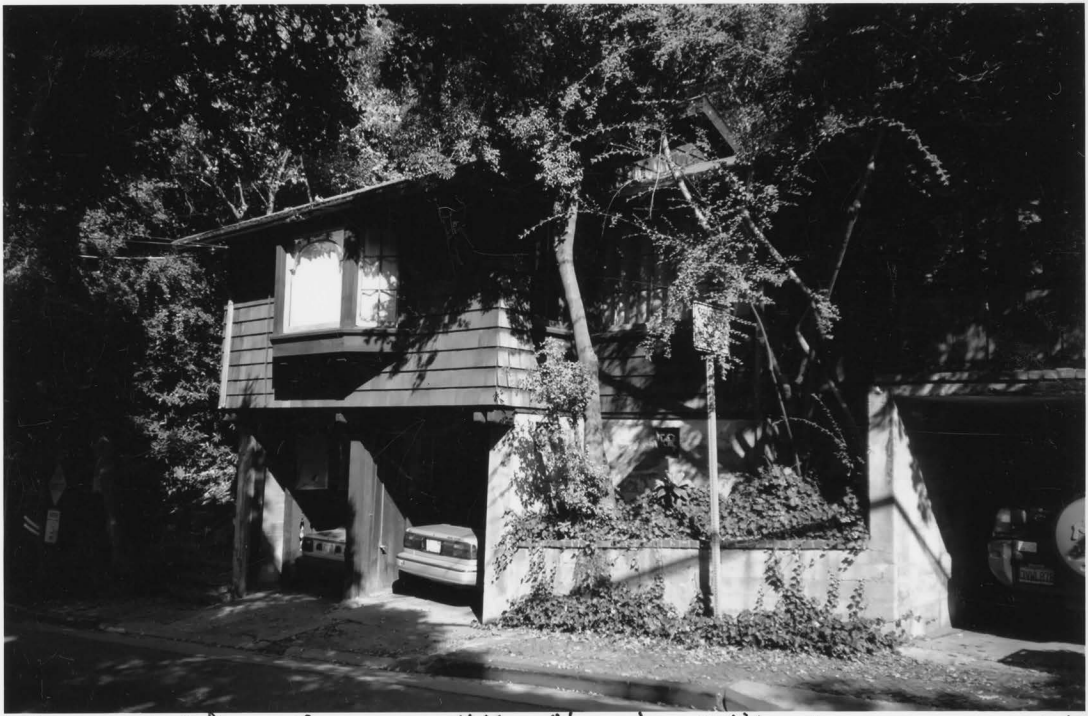
Circa 1922 View from Strawberry Canyon towards Northside Panoramic Hill. Courtesy Berkeley Architectural Heritage Assn.



Reiber House at 15 Canyon Road. 1909. Photo courtesy of Berkeley Architectural Heritage Association.



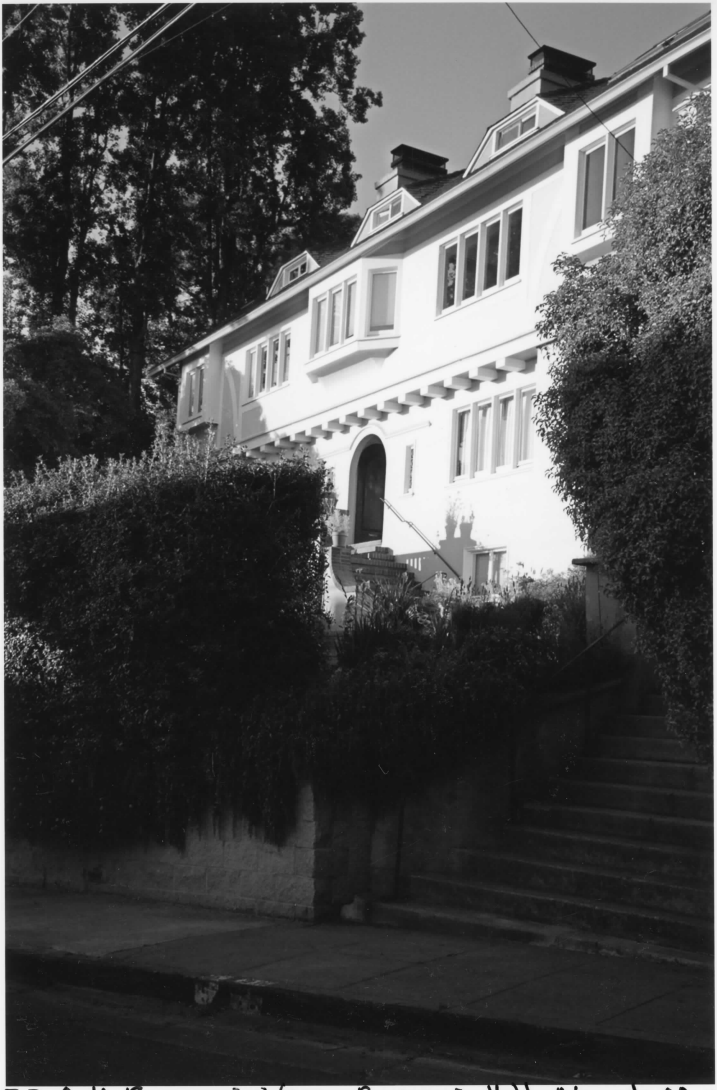
View of Panoramic Hill in 1909. Collection of Dorothea Torrey Kelley. Courtesy of Berkeley Architectural Heritage Association



1 Panoramic Way, Panoramic Hill, Alameda, California 1.1



1 Panoramic Way, Panoramic Hill, Alameda, California 1.a.1



5,7,9,11 Panoramic Way, Panoramic Hill, Alameda, CA 2-1



18 Panoramic Way, Panoramic Hill, Alameda, California 3.a.1.



18 Panoramic Way, Panoramic Hill, Alameda, California 3.a.2



20, 22, 24 Panoramic Way, Panoramic Hill, Alameda, California 3.1



23 Panoramic Way, Panoramic Hill, Alameda, California 4.1



25 Panoramic Way, Panoramic Hill, Alameda, California 5.1



25 Panoramic Way, Panoramic Hill, Alameda, California 5.a.1



27 Panoramic Way, Panoramic Hill, Alameda, California 6:1



27 Panoramic Way, Panoramic Hill, Alameda, CA 6.2



36 Panoramic Way, Panoramic Hill, Alameda, California 9.1



38 Panoramic Way, Panoramicc Hill, Alameda, California 10-1



59 & 61 Panoramic Way, Panoramic Hill, Alameda, California 11.1



59:61 Panoramic Way, Panoramic Hill, Alameda, California 11.2



59:61 Panoramic Way, Panoramic Hill, Alameda, CA 11a.1



60 Panoramic Way, Panoramic Hill, Alameda, CA 12.1



62 Panoramic Way, Panoramic Hill, Alameda, CA 13.1



64 Panoramic Way, Panoramic Hill, Alameda, CA 14.1



66 Panoramic Way, Panoramic Hill, Alameda, CA 16.1



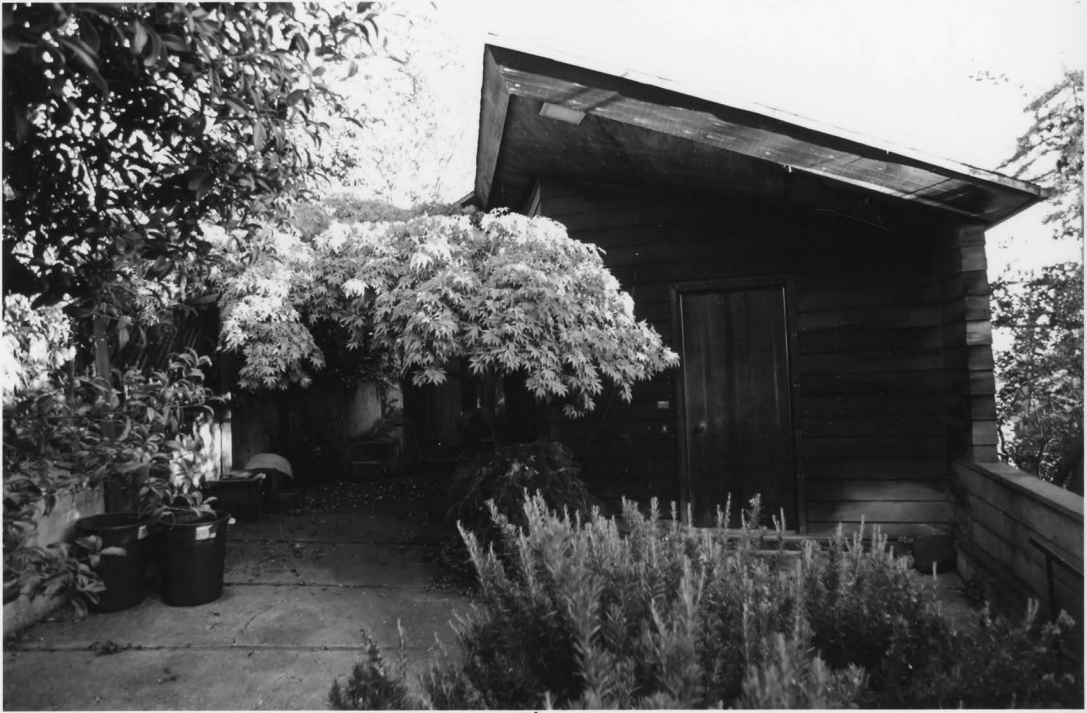
72 Panoramic Way, Panoramic Hill, Alameda, CA 18:1



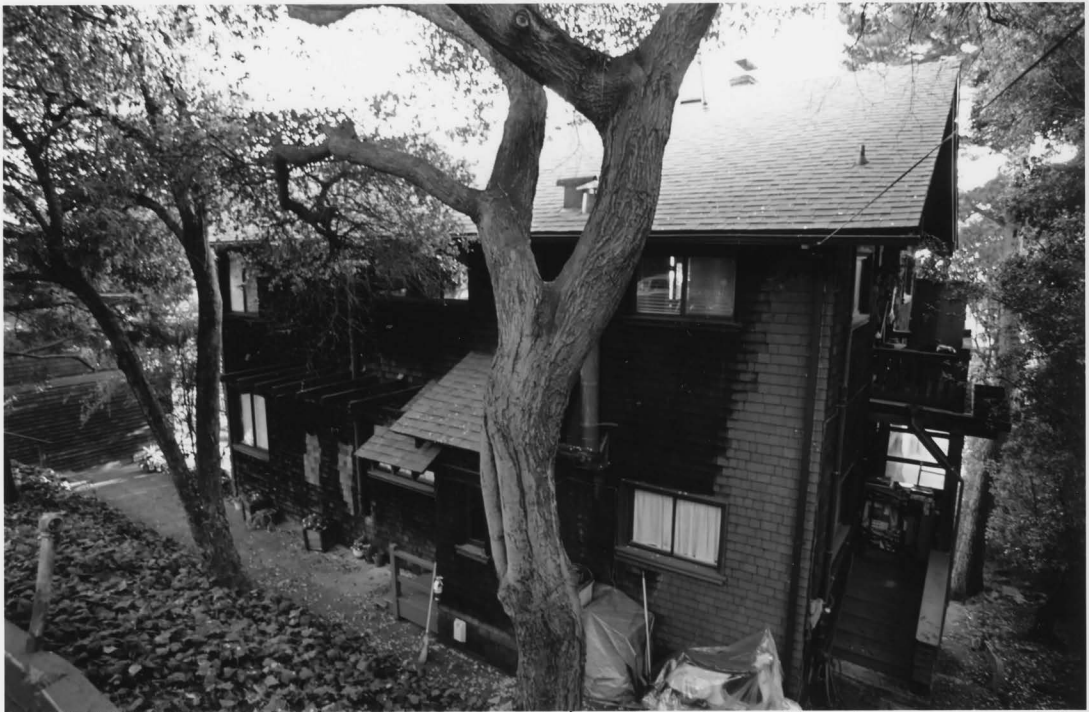
72 Panoramic Way, Panoramic Hill, Alameda, California 18.a.1



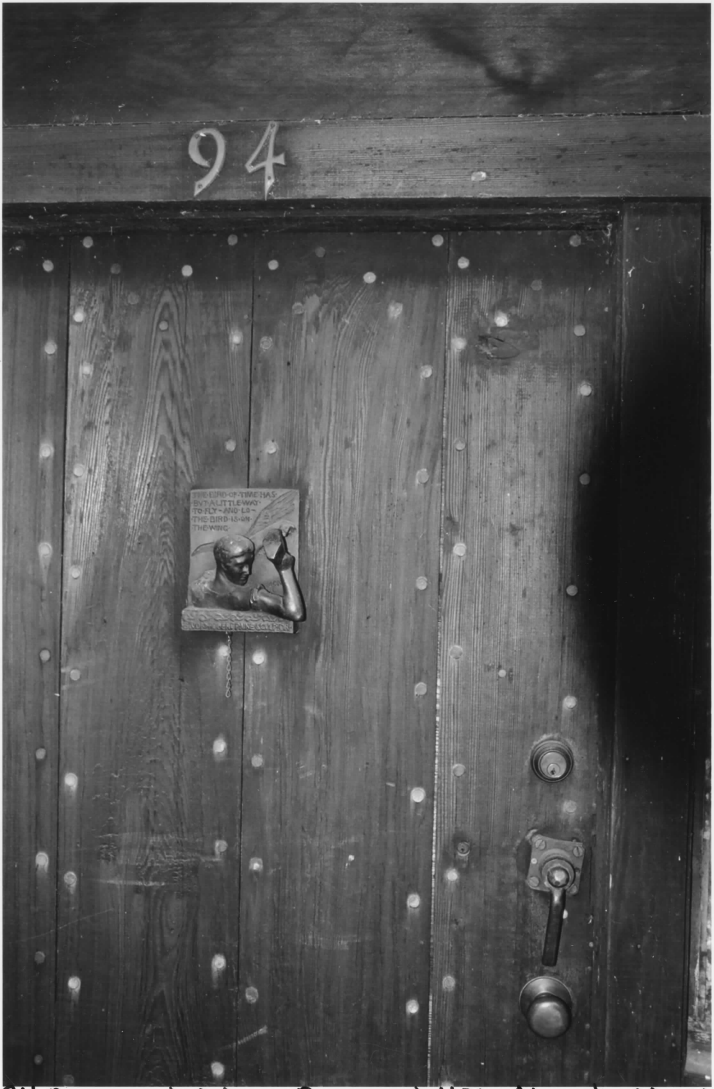
74 Panoramic Way, Panoramic Hill, Alameda, California 19.1



#4 Panoramic Way, Panoramic Hill, Alameda, California 19.2



73, 75, 77 Panoramic Way, Panoramic Hill, Alameda, California 20.1



94 Panoramic Way, Panoramic Hill, Alameda, CA 21.1



94 Panoramic Way, Panoramic Hill, Alameda, CA 21.2



94 Panoramic Way, Panoramic Hill, Alameda, California 21.3



101 Panoramic Way, Panoramic Hill, Alameda, California 22.1



101 Panoramic Way, Panoramic Hill, Alameda, Calif. 22.2



107 Panoramic Way, Panoramic Hill, Alameda, California 23.1



107 Panoramic Way, Panoramic Hill, Alameda, Calif. 23.2



107 Panoramic Way, Panoramic Hill, Alameda, Calif. 23.3



1 Canyon Road, Panoramic Hill, Alameda, California 24.1



1 Canyon Road, Panoramic Hill, Alameda, Calif 24.ai



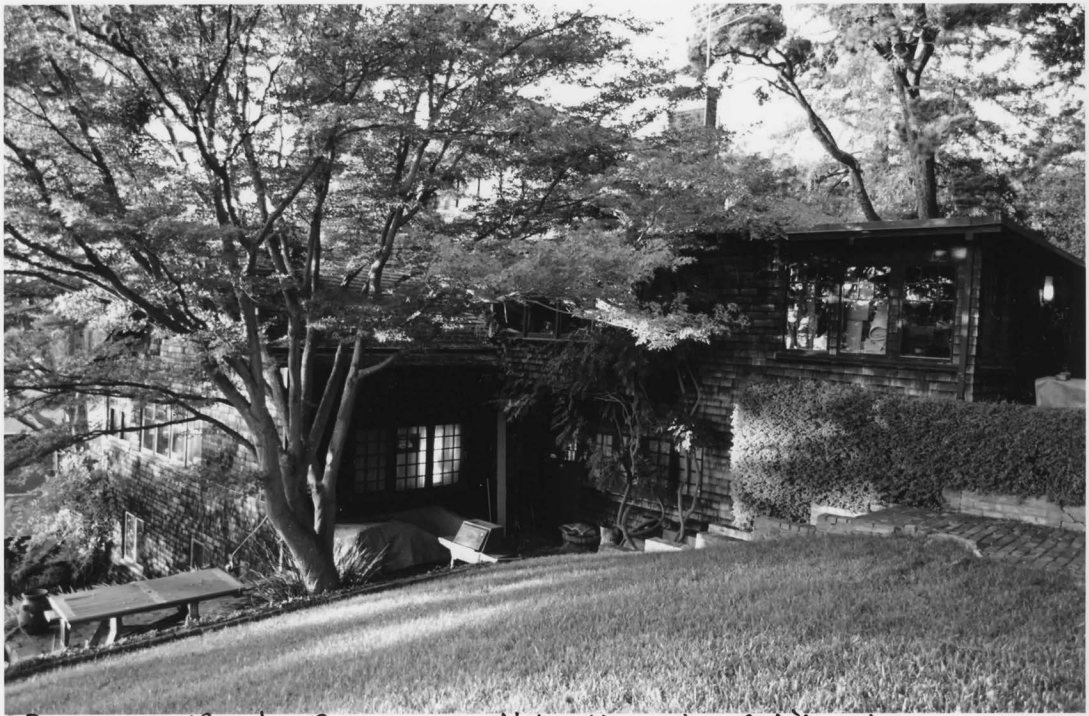
5 Canyon Road, Panoramic Hill, Alameda, California 25.1



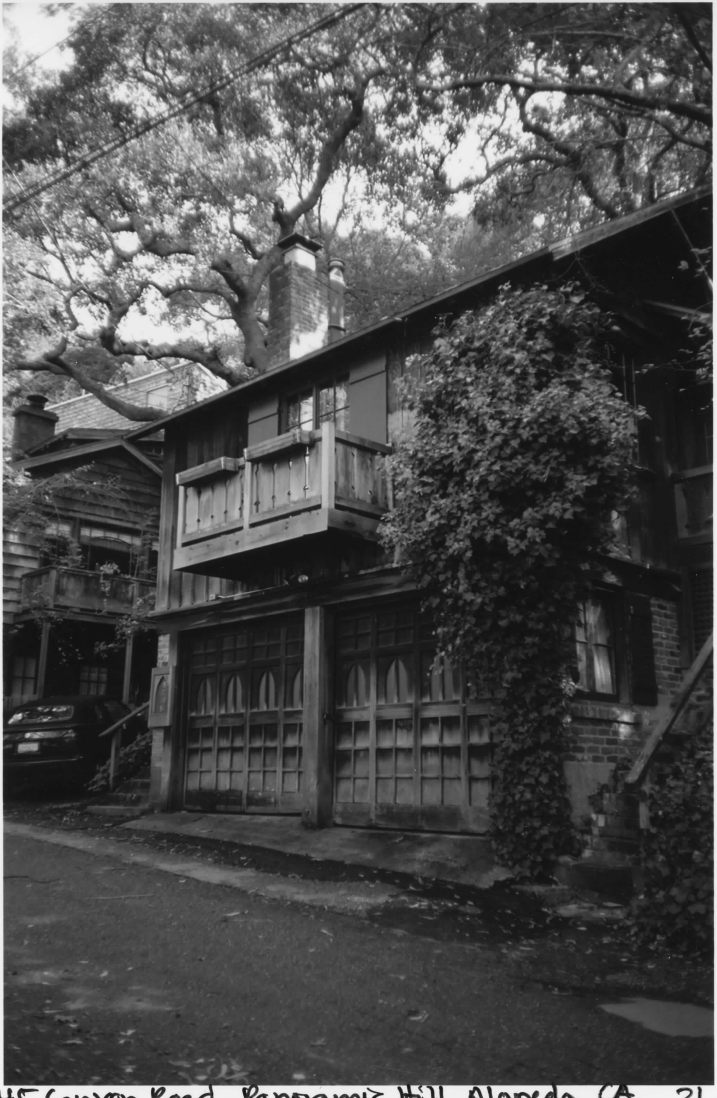
9 Canyon Road, Panoramic Hill, Alameda, California 26.1



15 Canyon Road, Panoramic Hill, Alameda, California 27.1



33 Canyon Road, Panoramic Hill, Alameda, California 28.1



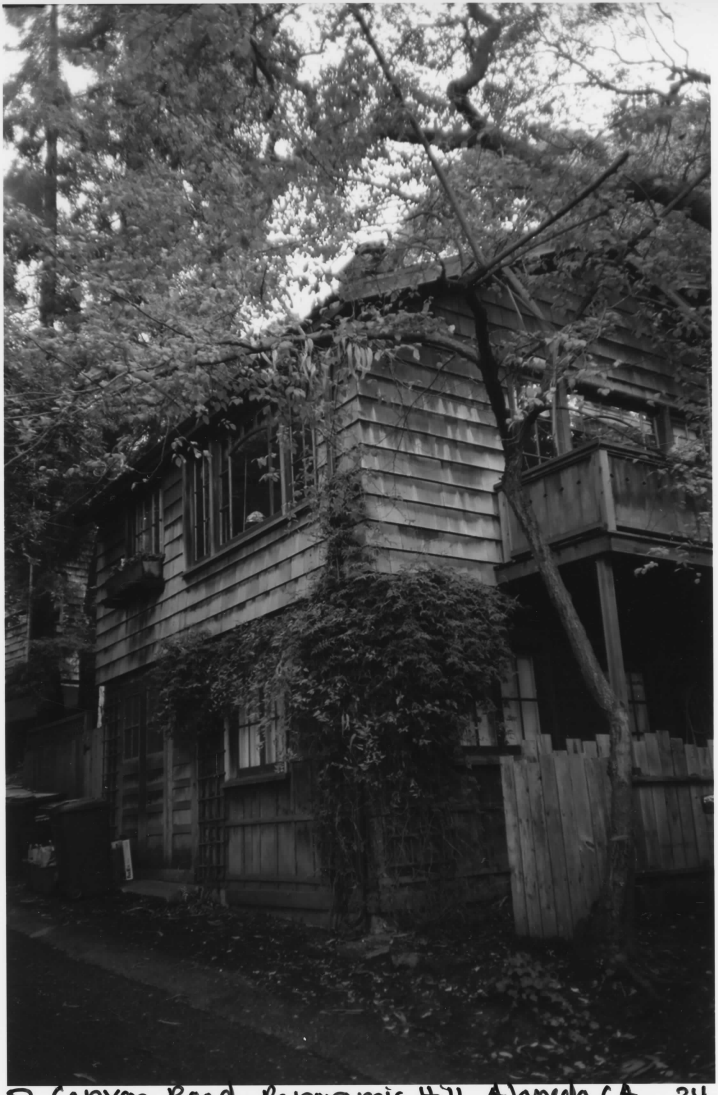
45 Canyon Road, Panoramic Hill, Alameda, CA 31.1



47 Canyon Road, Panoramic Hill, Alameda, California 32.1



49 Canyon Road, Panoramic Hill, Alameda, California 33.1



51 Canyon Road, Panoramic Hill, Alameda, CA 34.1



67 Canyon Road, Panoramic Hill, Alameda, CA 37a.1



4 Mosswood Lane, Panoramic Hill, Alameda, California 38.1



4 Mosswood Lane, Panoramic Way, Alameda, California 38.2



4 Mosswood Lane, Panoramic Hill, Alameda, California 38.3



4 Mosswood Lane, Panoramic Hill, Alameda, CA 38.4



6 & 8 Mosswood Road, Panoramic Hill, Alameda, California 39.1 (40.1)



6 Mosswood Road, Panoramic Hill, Alameda, CA 39.2



11 Mosswood Road, Panoramic Hill, Alameda, California 42.1



11 Mosswood Road, Panoramic Hill, Alameda, CA 42.a.1



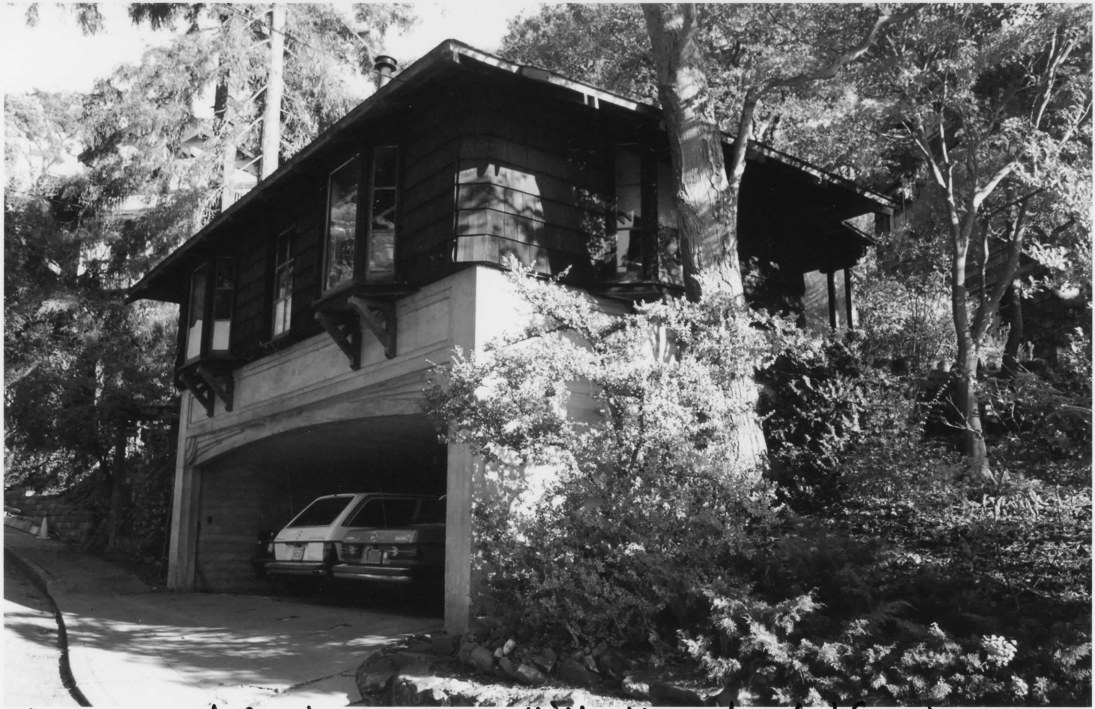
13 Mosswood Road, Panoramic Hill, Alameda, California 43.1



13 Mosswood Road, Panoramic Hill, Alameda, CA 43a.1



14 Mosswood Road, Panoramic Hill, Alameda, CA 44.1



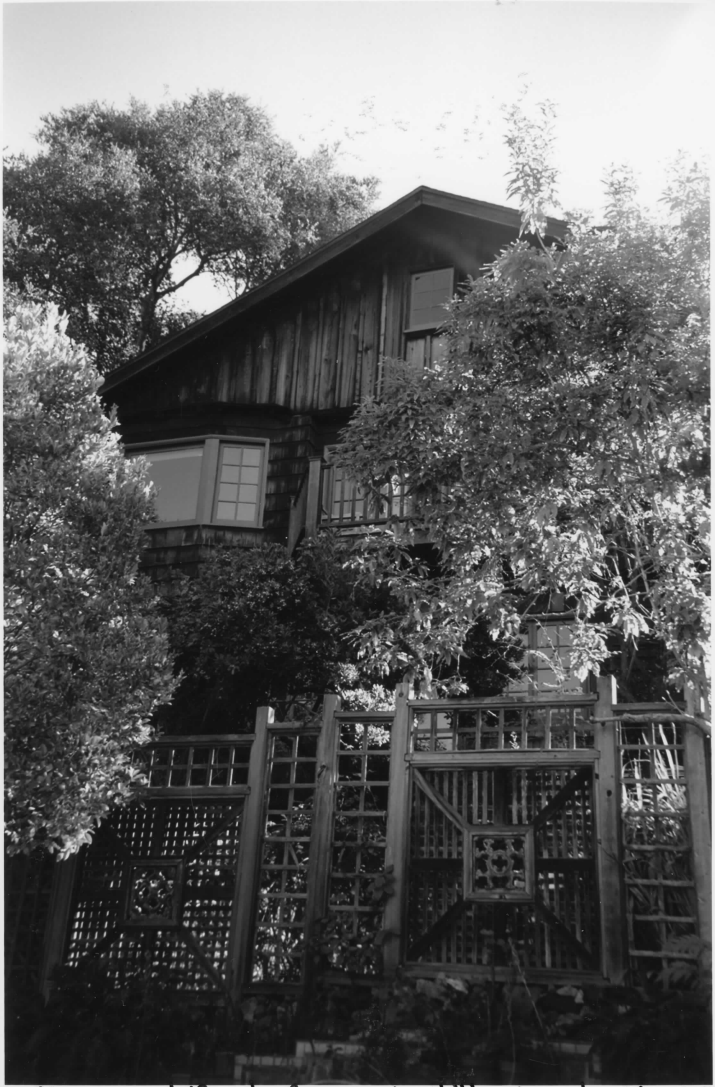
14 Mossrood Road, Panoramic Hill, Alameda, California 44.a.1



14 Mosswood Road, Panoramic Hill, Alameda, California 44.b.1



14 Mosswood Road, Panoramic Hill, Alameda, California 44.c.1



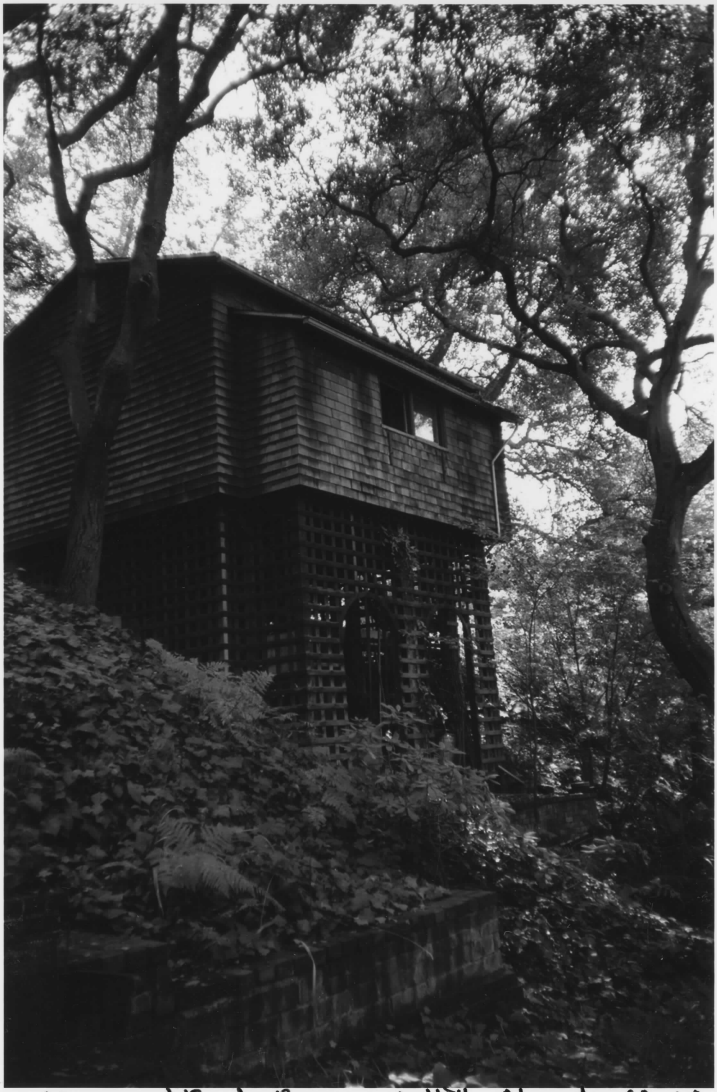
16 Mosswood Road, Panoramic Hill, Alameda, CA 45.1



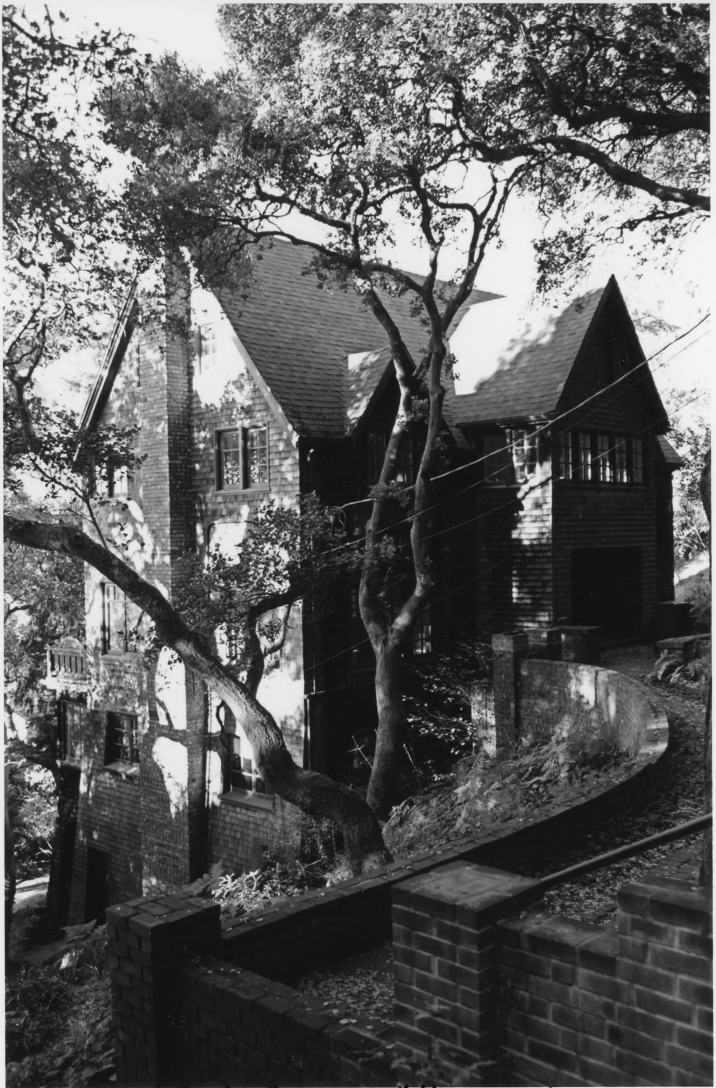
21 Mosswood Road, Panoramic Hill, Alameda, California 47.1



29 Mosswood Road, Panoramic Hill, Alameda, California 48.1



29 Mosswood Road, Panoramic Hill, Alameda, CA 48.a.1



37 Mosswood Road, Panoramic Hill, Alameda, CA 49.1



38 Mosswood Road, Panoramic Hill, Alameda, CA 50.1



10 Orchard Lane, Panoramic Hill, Alameda, California 51.1



3 Orchard Lane, Panoramic Hill, Alameda, California 52.1



19 Orchard Lane, Panoramic Hill, Alameda, California 53.1



21 Orchard Lane, Panoramic Hill, Alameda, California 54.1



59 Arden Road, Panoramic Hill, Alameda, CA 55.1



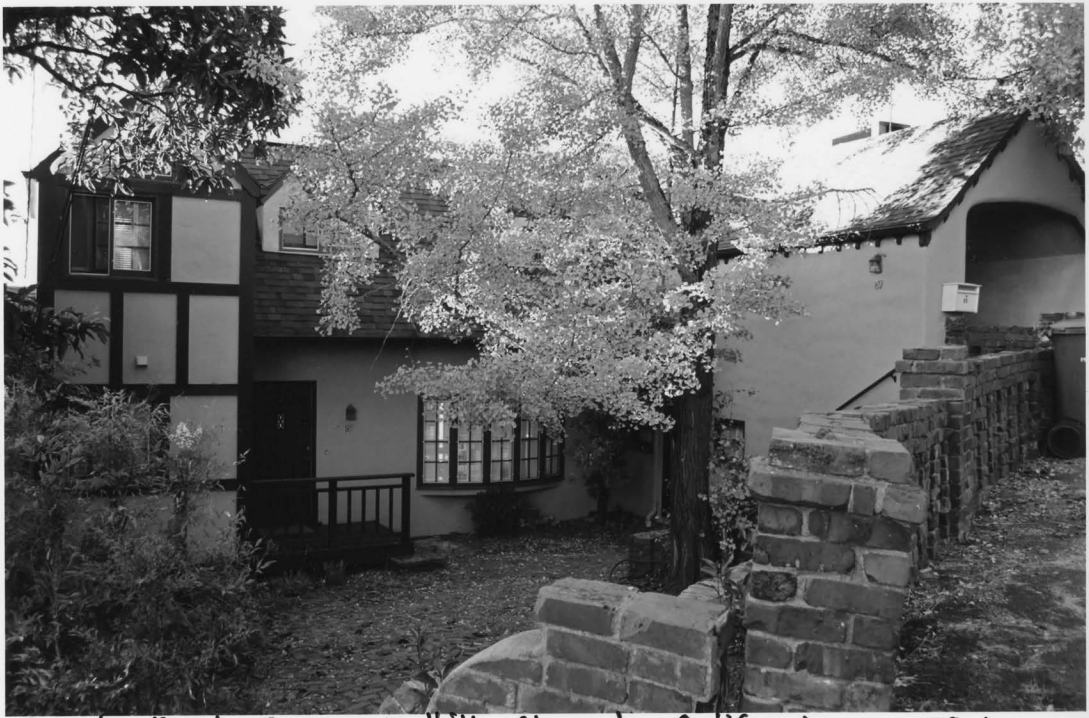
65 Arden Road, Panoramic Hill, Alameda, California 56.1



70 Arden Road, Panoramic Hill, Alameda, California 57.1



76 Arden Road, Panoramic Hill, Alameda, CA 58.1



89 Arden Road, Panoramic Hill, Alameda, California 59.1



95 & 99 Arden Road, Panoramic Hill, Alameda, California 60.1



100 Arden Road, Panoramic Hill, Alameda, California 61.1



100 Arden Road, Panoramic Hill, Alameda, California 61.a.1



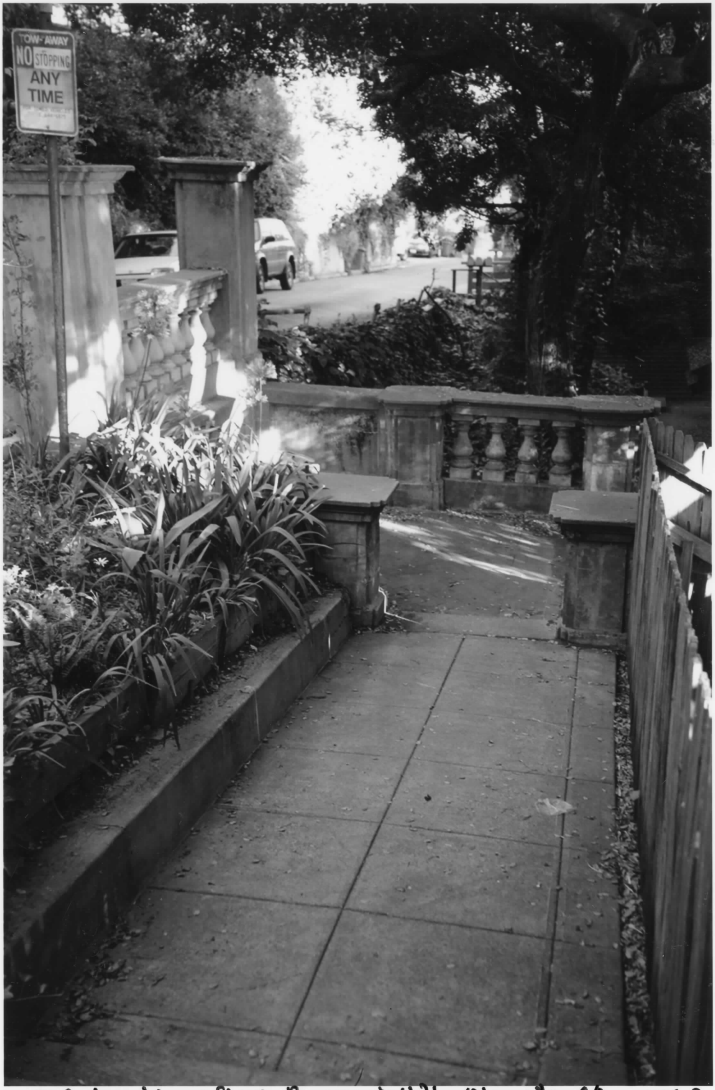
100 Arden Road, Panoramic Hill, Alameda, California 61.b.1



67 Canyon Road, Panoramic Hill, Alameda, California 67.1



Lower Orchard Lane, Steps, Panoramic Hill, Alameda, California W. I



Lower Orchard Lane Steps, Panoramic Hill, Alameda, CA W.2



Lower Orchard Lane, Panoramic Hill, Alameda, California

W. 3



Lower Orchard Lane, Panoramic Hill, Alameda, CA W. 4



Lower Orchard Lane Steps, Panoramic Hill, Alameda, California W.5



Lower Orchard Lane Steps, Panoramic Hill, Alameda, CA W.6



Lower Orchard Lane Steps, Panoramic Hill, Alameda, CA W.7



Upper Orchard Lane, Panoramic Hill, Alameda, CA X.1



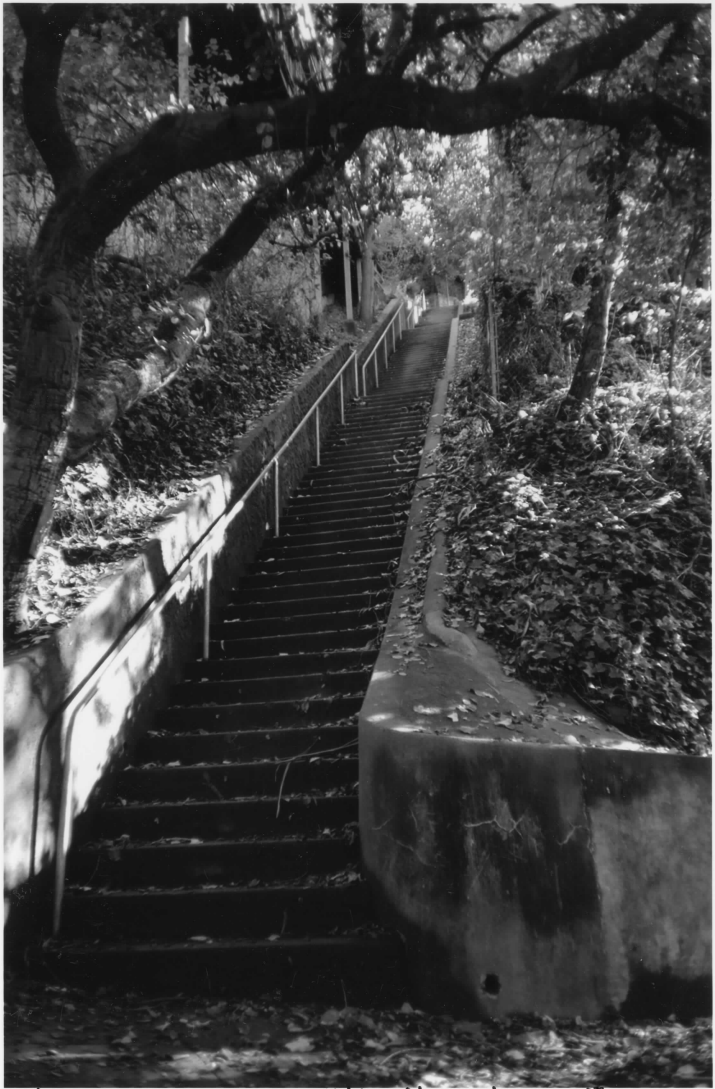
Upper Orchard Lane, Panoramic Hill, Alameda, Calif. x.2



Mosswood Lane, Panoramic Hill, Alameda, CA Y.I.



Mosswood Lane, Panoramic Hill, Alameda, Calif. y. 2.



Arden Steps, Panoramic Hill, Alameda, Calif. E.1



Mosswood at Panoramic, Panoramic Hill, Alameda, California v. 1



Panoramic at first Hairpin, Panoramic Hill, Alameda, California v.2



Campanile from Mosswood Lane, Panoramic Hill, Alameda, California v.3



23 Panoramic Way, Panoramic Hill, Alameda County, California 4.1 (R)



59:61 Panoramic Way, Panoramic Hill, ~~Alameda~~ County, California 11.1 (R)



59:61 Panoramic Way, Panoramic Hill, Alameda County, California 11.2 (R)



107 Panoramic Way, Panoramic Hill, Alameda County, California

23.3 (R)



15 Canyon Road, Panoramic Hill, Alameda County, California 27.1 (R)



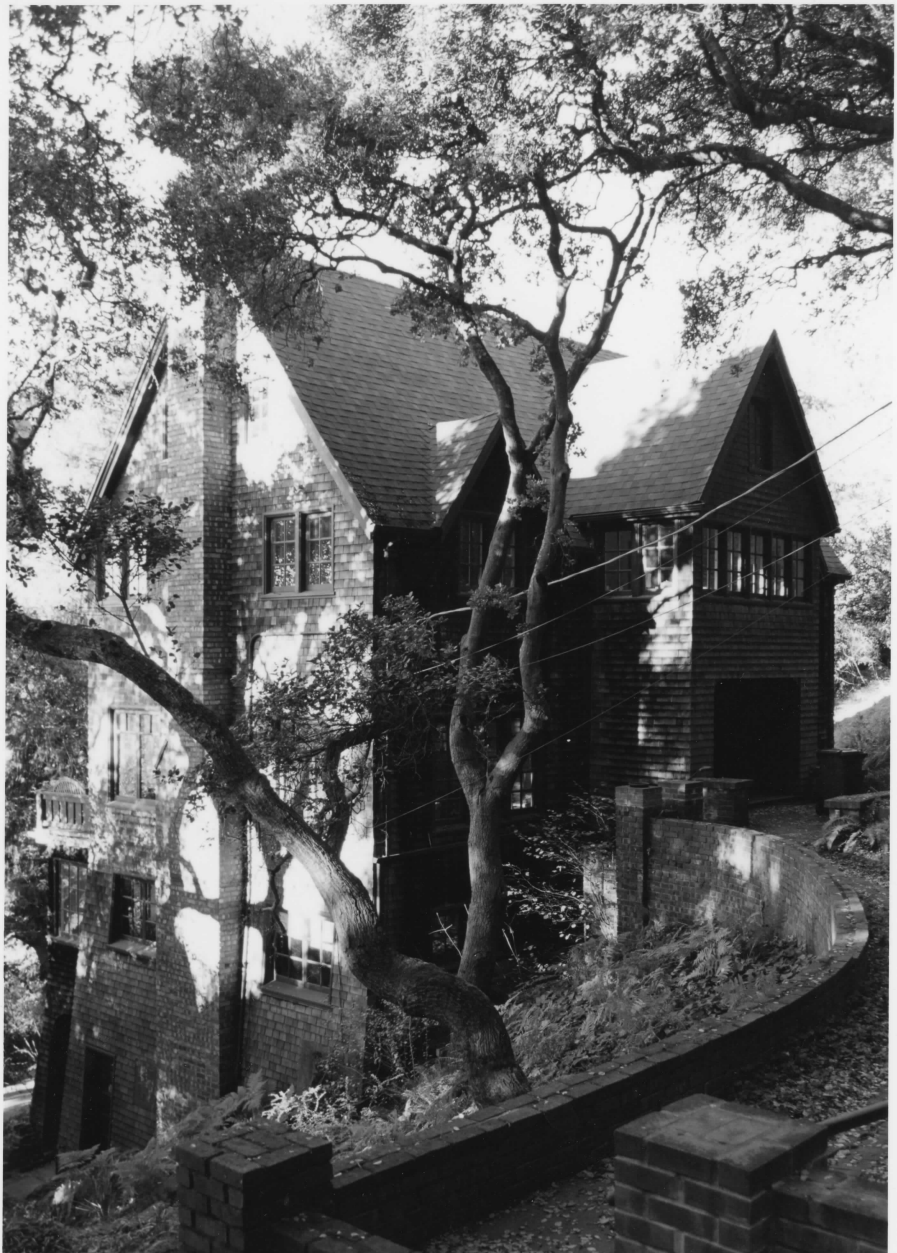
45 Canyon Road, Panoramic Hill, Alameda County, California 31.1 (R)



6 Mosswood Road, Panoramic Hill, Alameda County, Calif. 39.2(8)



11 Mosswood Road, Panoramic Hill, Alameda County, California 42.1 (R)



37 Mosswood Rd., Panoramic Hill, Alameda County, Calif. 49.1(R)



100 Arden Road, Panoramic Hill, Alameda County, California 61.a.1 (R)



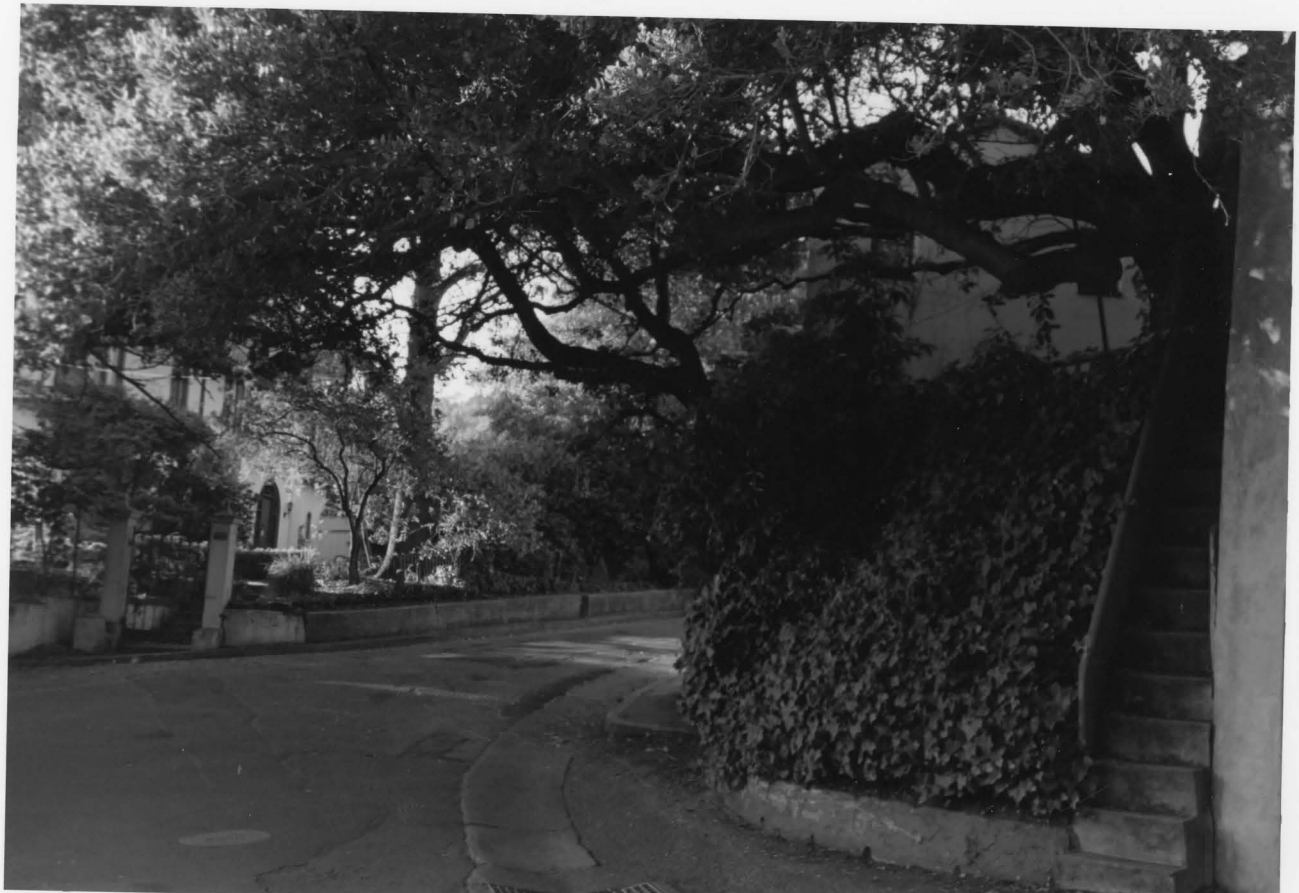
Arden Steps, Panoramic Hill, Alameda County, California 2 of (R)



Panoramic Way, Panoramic Hill, Alameda County, California v.2 (R)



View from Mosswood Lanes, Panoramic Hill, Alameda County, California V.3 (R)



View from Panoramic to Mosswood, Panoramic Hill, Alameda County, California V. 6

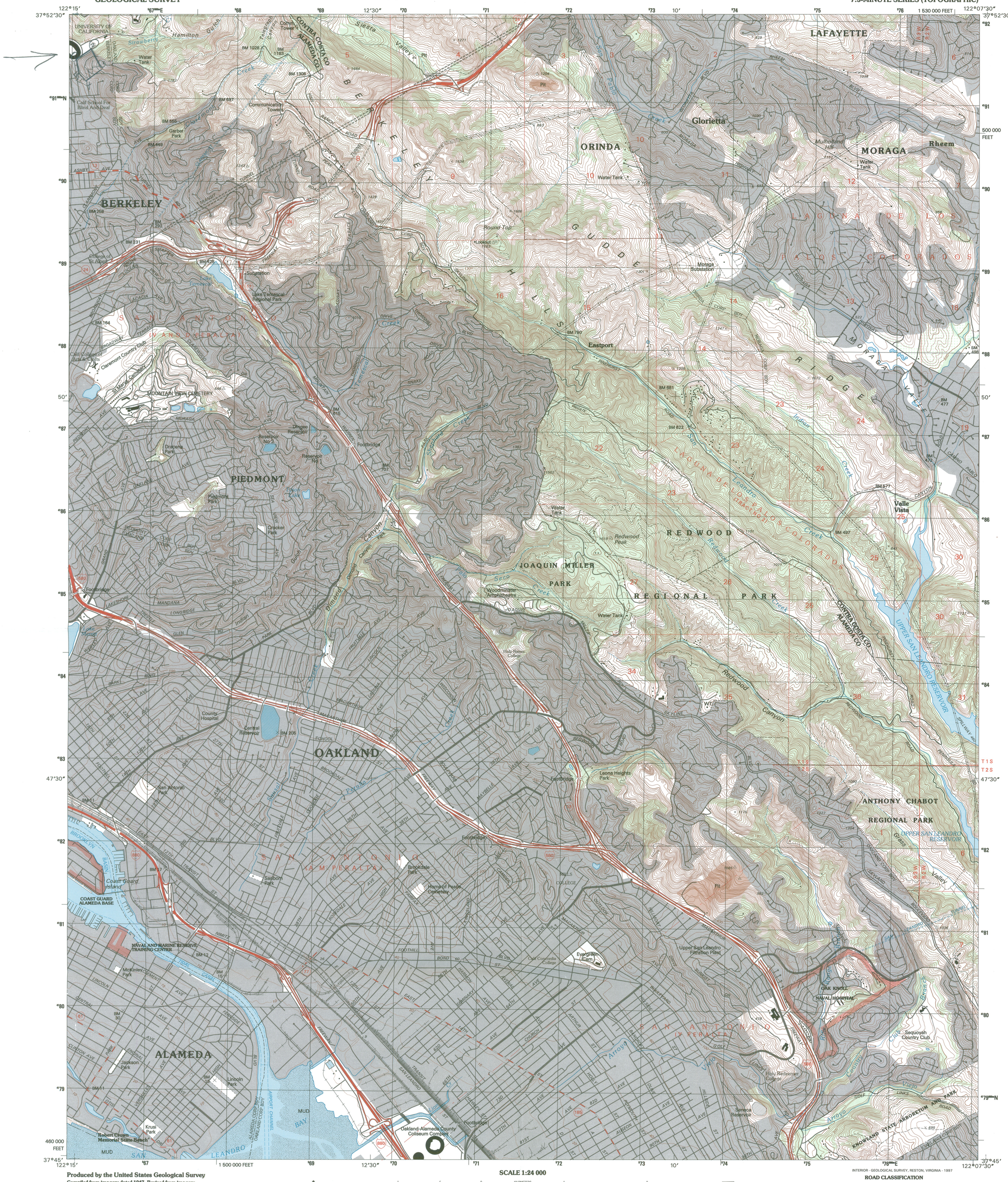


View from 14 Mosswood, Panoramic Hill, Alameda County, California V. 7

Panoramic Hill
Alameda Co. CA

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

OAKLAND EAST QUADRANGLE
CALIFORNIA
7.5-MINUTE SERIES (TOPOGRAPHIC)



122°15′ 37°52′30″ 67 68 69 12′30″ 70 71 72 73 10′ 74 75 76 1 530 000 FEET 122°07′30″ 37°52′30″ 92 91 90 89 88 87 86 85 84 83 47′30″ 82 81 80 79 460 000 FEET 37°45′ 122°15′ 67 1 500 000 FEET 69 12′30″ 70 71 72 73 10′ 74 75 76 122°07′30″ 37°45′ 92 91 90 89 88 87 86 85 84 83 47′30″ 82 81 80 79 500 000 FEET T1S T2S

Produced by the United States Geological Survey

Compiled from imagery dated 1947. Revised from imagery dated 1993. PLSS and survey control current as of 1959
Contours and elevations current as of 1947. Map edited 1996

North American Datum of 1927 (NAD 27). Projection and 1000-meter grid: Universal Transverse Mercator, zone 10
10 000-foot ticks: California Coordinate System (zone 3)

North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software

There may be private inholdings within the boundaries of the National or State reservations shown on this map

MN GN 0°30′ 9 MILS 15½° 276 MILS

UTM GRID AND 1997 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000
1 .5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 20 FEET
SUPPLEMENTARY CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, P.O. BOX 25286, DENVER, COLORADO 80225
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

CA

QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Richmond
2 Briones Valley
3 Walnut Creek
4 Oakland West
5 Las Trampas Ridge
6 Hunters Point
7 San Leandro
8 Hayward

ADJOINING 7.5' QUADRANGLE NAMES

INTERIOR - GEOLOGICAL SURVEY, RESTON, VIRGINIA - 1997

ROAD CLASSIFICATION

Primary highway hard surface
Secondary highway hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route U.S. Route State Route

OAKLAND EAST, CA

1997

DMA 1559 I SW-SERIES V895

ISBN 0-607-85820-6
9 780607 858204

Warren and Lorna Byrne
23 Panoramic Way
Berkeley, California 94704
510 849-3474

RECEIVED
JAN 18 2005
OHP

January 14, 2005

State Historic Preservation Officer
Office of Historic Preservation
P.O. Box 942896
Sacramento, CA 94296-0001

Dear Sir:

RE Panoramic Hill Historic District Nomination

This is to express our strong support for the nomination of Panoramic Hill in Berkeley to the National Register of Historic Places.

We own an early Maybeck home in the proposed historic district and believe our neighborhood merits inclusion in the National Register because of its architectural significance.

We urge you to support this nomination.

Sincerely,

Warren & Lorna Byrne

RECEIVED 2280
APR 7 2005
NAT. REGISTER OF HISTORIC PLACES
NATIONAL PARK SERVICE

RECEIVED
JAN 18 2005
OHP

State Historic Preservation Officer
Office of Historic Preservation
P.O. Box 942896
Sacramento CA 94296-0001

Re: Panoramic Hill, Berkeley CA

15 January 2005

Dear Mr. Donaldson,

I strongly support the nomination of the Panoramic Hill district for inclusion in the National Register of Historic Places.

Thank you,

Nicholas Burgoyne

Nicholas Burgoyne
27 Panoramic Way
Berkeley CA 94704

THE FRANK LLOYD WRIGHT BUILDING CONSERVANCY

January 26, 2005

Milford Donaldson
State Historic Preservation Officer
State of California
P.O. Box 942896
Sacramento CA 94296-0001

Dear Mr. Donaldson:

The Frank Lloyd Wright Building Conservancy submits this letter in support of the inclusion of the Feldman House at 13 Mosswood Road, Berkeley, CA. 94704, as a contributing building in the Panoramic Hill Historic District. The actual age of this important house belies its overwhelming significance in the design chronology of one of America's most influential architects. Although not built until 1974, the house was designed by Frank Lloyd Wright in 1939. The history and story behind this particular house contributes significantly to the historic and aesthetic fabric of the Panoramic Hill neighborhood.

In the late 1930's, Lewis N. Bell engaged Frank Lloyd Wright to design a house for him on a hilly Los Angeles site. Wright accepted the commission and the plans were completed in 1939 calling for a house of brick and native wood to be nestled into the Hollywood Hills near Mulholland Drive, commanding a sweeping view of Los Angeles. Regrettably, due to the high cost of the construction, the Bells did not proceed with the building of what would have been one of Mr. Wright's more charming, small, early Usonian houses. Wright and Taliesin retained the original drawings.

In 1974, Mr. and Mrs. Joe Feldman went to Taliesin looking for a Frank Lloyd Wright plan that they could build. After some deliberation with officials at Taliesin, including Kamal Amin, a senior architect and structural engineer with 23 years in the Taliesin Fellowship, Bruce Brooks Pfeiffer, currently head of the Frank Lloyd Wright Archives, and Olgivanna Wright, Wright's widow, they chose the plans for the Bell House as most appropriate for Joe Feldman's site.

The construction followed the original 1939 plans prepared by Wright, as closely as the more modern building and seismic codes would permit. California clear heart redwood is used in the board and batten walls and for trim. The most significant changes include flipping the plans into a mirror image of the original layout to better fit the new site, and constructing a more substantial retaining wall out of brick instead of board and batten. Being in an earthquake zone and on a very steep hill, the main challenge was to insert the necessary reinforcement to maintain the integrity of the aesthetics without the slightest of design changes. None of these modifications detract from the significance of the final structure.

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www.savewright.org

FROM (FRI) JAN 28 2005 15:39/ST. 15:38/NO. 6320037406 P 2

The Feldman House is extremely significant in that it fills a gap in the record of Wright's actual built works, allowing architectural historians and students to see an important early step in Wright's development of the Usonian house, following so closely its introduction with the Jacobs I House in 1936, albeit through the eyes and talents of the Taliesin Architects' later adaptation. The house exhibits Wright's early genius for making a very small space seem so large and open. It was his first use of the hexagonal modular design in a smaller house, after its successful introduction in the much larger Hanna House in 1936. The hexagon form which almost eliminates corners, coupled with the expansive windows, allows the living space to flow out onto the deck making the interior space appear much larger than its square footage suggests.

Like the original sighting in Los Angeles, hills and trees--redwoods, native oaks and towering pines--also surround the Feldman House. From the veranda, one has a 200 degree view of the Bay Area that sweeps east from Oakland, to San Francisco, the Bay Bridge, Alcatraz and Angel Islands, the Golden Gate Bridge, Sausalito, Marin County to the Richmond Bridge in the west.

Aside from the design significance, the Frank Lloyd Wright Building Conservancy recognizes the importance of its inclusion as a contributing building in the Panoramic Hill Historic District as fulfilling one of the requirements precedent to its protection with a preservation easement. This is the only way to protect this important house in perpetuity from demolition or significant alteration, if the present or future owners would so desire.

The Feldman House certainly adds an excellent example of organic architecture, as Wright defined that term, to the otherwise diverse and equally interesting architectural palate that makes the Panoramic Hill community of such aesthetic and educational interest to students and historians of American architecture.

As a preservation organization, the Frank Lloyd Wright Building Conservancy strongly supports efforts to create Historic Districts calling to the world's attention the rich history and flavor of American architecture, of which Frank Lloyd Wright was such a strong proponent. We highly recommend that the Feldman House be included as a contributing structure in the Panoramic Hill Historic District. Its unique history and story will add considerable interest to the district's success.

Very truly yours,

Ronald L. Scherubel
Executive Director

FROM (FRI) JAN 28 2005 15:39/ST. 15:38/NO. 6320037406 P 3

BILL and JANE ROBBINS
260 Panoramic Way
Berkeley, CA 94704
Home: (510) 540-8365
Office: (510) 893-1000

RECEIVED
FEB 01 2005
OHP

January 31, 2005

State Historic Preservation Officer
Office of Historic Preservation
P.O. Box 942896
Sacramento, CA 94296-0001

Re: Panoramic Hill Historic District

Dear Sir/Madam:

Although my wife and I are outside the boundaries of the above-referenced district, we strongly support its creation. The City of Berkeley has several historic neighborhoods, however the proposed portion of Panoramic Hill has such a concentration of historic and architecturally significant structures that it deserves the designation.

Sincerely,

Bill Robbins

STATE OF CALIFORNIA – THE RESOURCES AGENCY

ARNOLD SCHWARZENEGGER, *Governor*

OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION
P.O. BOX 942896
SACRAMENTO, CA 94296-0001
(916) 653-6624 Fax: (916) 653-9824
calshpo@ohp.parks.ca.gov

RECEIVED 2280
APR 7 2005
NAT. REGISTER OF HISTORIC PLACES
NATIONAL PARK SERVICE

March 28, 2005

Ms. Carol D. Shull, Keeper
National Register of Historic Places
National Park Service 2280
1201 "I" (Eye) Street, NW
WASHINGTON, D.C. 20005

Subject: Panoramic Hill
National Register nomination

Dear Ms. Shull:

Enclosed is the National Register nomination for the district named above. This district is located in Berkeley, Alameda County, California. No letters of objection were received. If you have any questions regarding this nomination, please contact Maryln Bourne Lortie of my staff at (916) 653-8911.

Sincerely,

Milford Wayne Donaldson, FAIA
State Historic Preservation Officer

RECEIVED
JUL 19 2005
OHP

MELANIE BELLAH
ATTORNEY AT LAW
10 MOSSWOOD ROAD
BERKELEY, CALIFORNIA 94704

TEL:(415) 845-4950
FAX:(415) 845 4962

RECEIVED
AUG 11 2005
NAT. REGISTER OF HISTORIC PLACES
NATIONAL PARK SERVICE

July 18, 2005 MB

Milford Wayne Donaldson
State Historic Preservation Office
P O Box 942896
Sacramento, CA 94296-0001

Dear Mr. Donaldson:

We wish to object to designating Paanoramic Hill, or even just our street, which is a part of Panoramic Hill, Mosswood Road, Berkeley, California, as a Historic Preservation District. For one thing, there are two houses on Mosswood Road alone, that are not fifty years old. One of them, 13 Mosswood Road, was built in or about 1979. We have lived here since 1967, and were a part of the whole process of approval about building that house on an over-small lot. Another house, 20 Mosswood Road, was built quite recently. It was completed within the last five years at the most. Therefore, whatever is the case with the rest of Panoramic Hill, Mosswood Road cannot qualify for historic status, and we suppose it should also disqualify Panoramic Hill generally.

We did not attend the January meeting about this matter or write a letter of objection then because Melanie was explicitly assured by her then close friend, Janice Thomas, that the excavation that she knew we are trying to get approved for adding a two-car garage on our lot, on this over-parked street, would not be in any way affected. The opposite has turned out to be true.

We signed a contract with an engineer in April, 2004, and ever since then we and our contractor have been endeavoring to satisfy the Byzantine requirements of the Berkeley Zoning Department. Just when we though that we had given them the final additional drawing they required, we found that we are back to square one because of the Historic District requirements. This is enough to make a strong man (or woman) cry. Our garage roof will be a beautiful garden, as we are hiring a landscape architect to help us make it so.

Please allow this matter to be reopened. Thank you so much for your help.

Sincerely yours,

Melanie Bellah and Robert N. Bellah

CERTIFICATE OF ACKNOWLEDGEMENT OF NOTARY PUBIC

STATE OF CALIFORNIA)

COUNTY OF ALAMEDA)

On this 18th day of July, ~~2004~~ 2005, before me, the undersigned, Virginia B Marsh, a Notary Public in and for said County and State, personally appeared MELANIE BELLAH, and ROBERT N. BELLAH, ~~personally known to me (or~~ proved to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities and that by their signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Virginia B. Marsh [Seal]

VIRGINIA B. MARSH
COMM. #1378637
NOTARY PUBLIC-CALIFORNIA
COUNTY OF ALAMEDA
My Comm. Exp. Oct. 7, 2006

STATE OF CALIFORNIA – THE RESOURCES AGENCY ARNOLD SCHWARZENEGGER, *Governor*

OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION
P.O. BOX 942896
SACRAMENTO, CA 94296-0001
(916) 653-6624 Fax: (916) 653-9824
calshpo@ohp.parks.ca.gov

RECEIVED 2280
AUG 11 2005
NAT. REGISTER OF HISTORIC PLACES
NATIONAL PARK SERVICE

August 9, 2005

Jan Matthews,Keeper
National Register of Historic Places
National Park Service 2280
1201 "I" (Eye) Street, NW
WASHINGTON, D.C. 20005
Attn: Paul Lusignan

Dear Ms. Matthews:

Subject: Panoramic Hill Historic District, Alameda County, CA
Nomination to the National Register of Historic Places

Enclosed are requested revisions for this application that was previously submitted to you on March 28, 2005. If you have any questions, please call Maryln Bourne Lortie of my staff at (916) 653-8911.

Sincerely,

Milford Wayne Donaldson, FAIA
State Historic Preservation Officer

APPENDIX G

Noise Modeling Outputs

NOISE APPENDIX

Noise Field Data

NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-01

Project: **CAL Softball Field Renovation Project**
Date: April 15, 2022 to April 16, 2022
Site: LT-01 North of 67 Canyon Rd.

Hour	Leq	Lmax	L50	L90
11:00	59.5	74.2	58.2	53.7
12:00	61.0	73.7	59.2	54.6
13:00	62.5	80.9	59.8	55.8
* 14:00	68.5	82.9	65.9	61.2
15:00	68.8	81.8	66.2	61.4
16:00	68.3	81.7	66.0	61.6
17:00	67.7	87.1	59.7	52.9
18:00	58.2	74.8	54.1	46.0
19:00	51.2	66.3	48.6	44.3
20:00	51.3	69.6	48.6	45.1
21:00	50.7	74.9	46.4	43.5
22:00	49.7	70.5	46.0	42.8
23:00	49.0	71.5	42.9	41.3
0:00	46.9	70.7	41.2	39.2
1:00	42.4	60.3	39.7	38.7
2:00	42.4	54.1	41.1	40.0
3:00	55.3	66.6	52.0	44.7
4:00	62.1	72.8	60.6	57.7
5:00	57.3	67.7	56.1	52.2
6:00	58.8	69.3	56.9	49.8
7:00	54.0	68.6	48.5	44.1
8:00	54.5	68.2	52.6	48.8
9:00	50.2	61.3	49.2	46.2
10:00	64.8	76.2	52.6	47.8

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	50.2	61.3	46.4	43.5
Nighttime (10 p.m. - 7 a.m.)	42.4	54.1	39.7	38.7

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	63.8	74.8	55.7	51.1
Nighttime (10 p.m. - 7 a.m.)	55.9	67.1	48.5	45.2

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	68.8	87.1	66.2	61.6
Nighttime (10 p.m. - 7 a.m.)	62.1	72.8	60.6	57.7

Energy Distribution

Daytime	91%
Nighttime	9%

Calculated Ldn, dBA

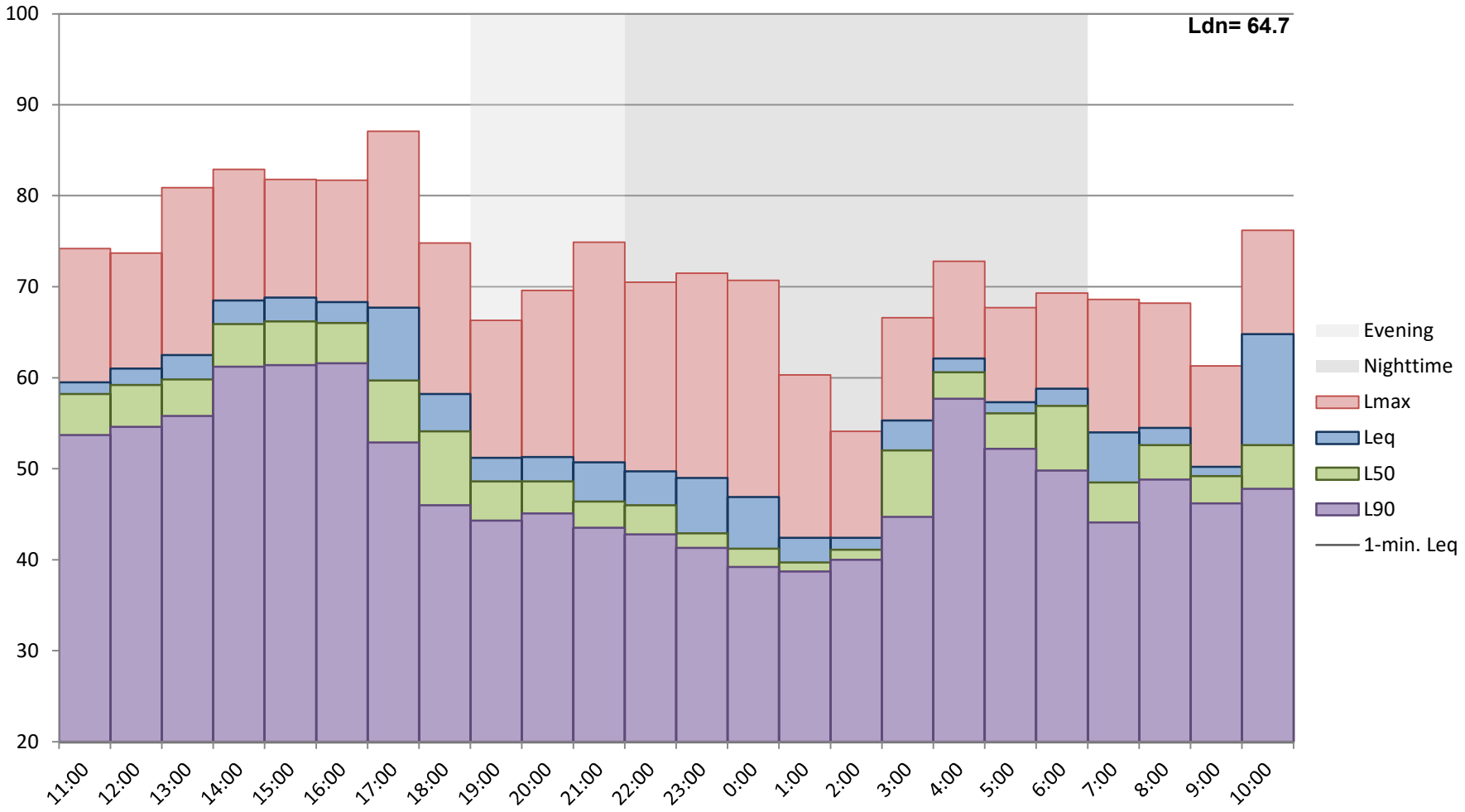
64.7

* Softball game UC vs. Stanford 2:05 pm to 5:25 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-01

April 15, 2022 to April 16, 2022



NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-01

Project: **CAL Softball Field Renovation Project**
Date: April 16, 2022 to April 17, 2022
Site: LT-01 North of 67 Canyon Rd.

Hour	Leq	Lmax	L50	L90
11:00	66.7	79.4	59.9	55.1
12:00	64.8	80.1	62.5	57.6
13:00	65.2	75.5	62.9	58.3
* 14:00	68.9	86.0	66.0	61.4
15:00	69.3	84.8	66.4	61.8
16:00	65.2	83.2	57.6	52.3
17:00	55.6	76.4	52.2	48.4
18:00	50.8	71.8	48.0	42.5
19:00	50.3	66.9	48.3	42.7
20:00	49.4	68.2	46.5	41.3
21:00	50.3	66.7	46.8	42.2
22:00	53.4	80.4	46.6	43.0
23:00	47.6	60.0	44.7	42.2
0:00	45.4	61.6	43.1	41.8
1:00	46.8	71.3	41.8	40.6
2:00	48.9	77.7	41.2	40.4
3:00	41.2	56.3	40.3	39.2
4:00	40.5	53.2	39.8	38.8
5:00	43.9	56.7	41.4	40.5
6:00	46.8	61.3	44.9	42.6
7:00	47.3	59.5	45.4	42.4
8:00	47.4	64.8	43.8	40.8
9:00	47.9	61.3	45.9	41.4
10:00	49.5	65.6	47.7	42.6

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	47.3	59.5	43.8	40.8
Nighttime (10 p.m. - 7 a.m.)	40.5	53.2	39.8	38.8

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	63.2	72.7	53.3	48.7
Nighttime (10 p.m. - 7 a.m.)	47.7	64.3	42.6	41.0

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	69.3	86.0	66.4	61.8
Nighttime (10 p.m. - 7 a.m.)	53.4	80.4	46.6	43.0

Energy Distribution

Daytime	98%
Nighttime	2%

Calculated Ldn, dBA

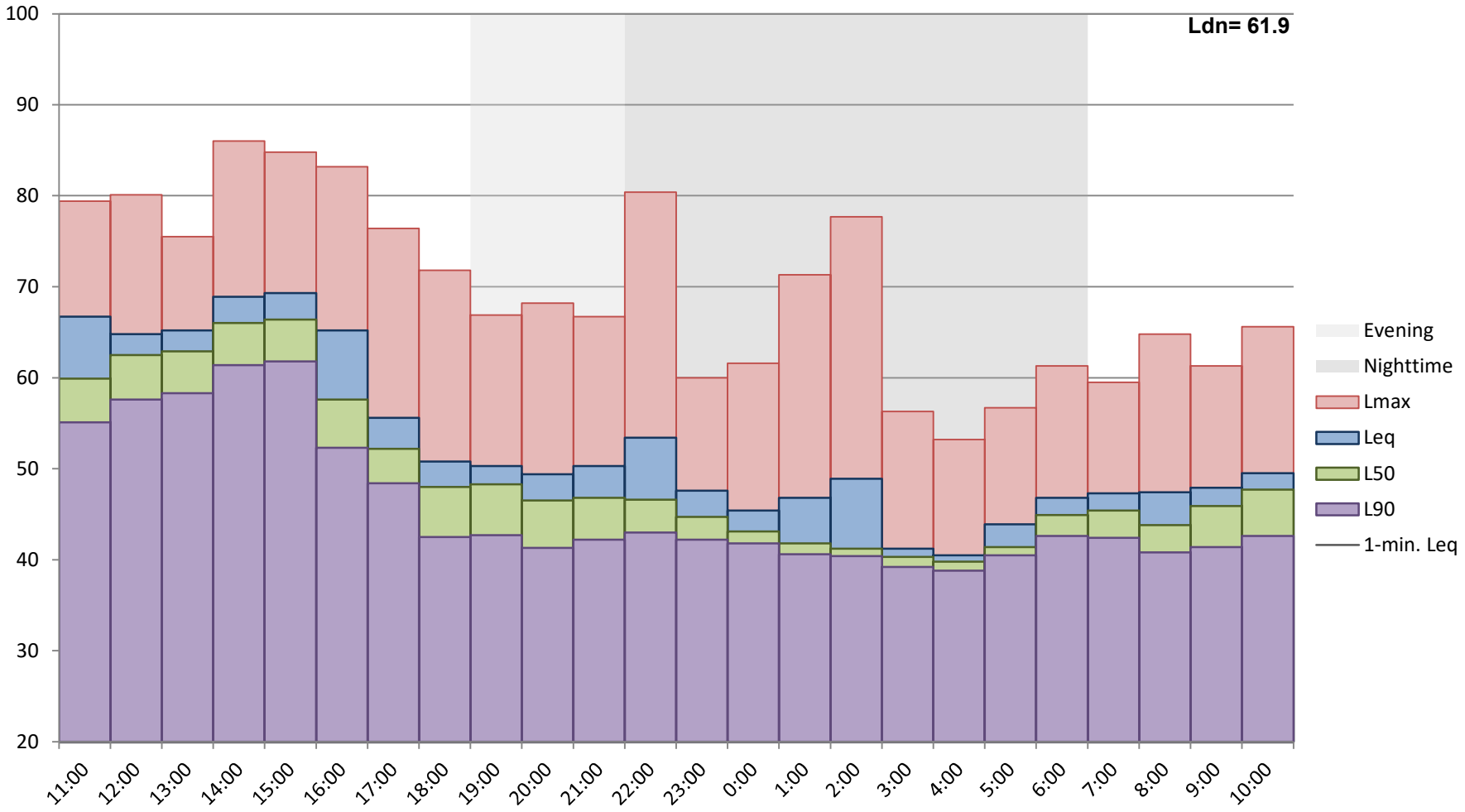
61.9

* Softball game UC vs. Stanford 2:05 pm to 4:11 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-01

April 16, 2022 to April 17, 2022



NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-02

Project: **CAL Softball Field Renovation Project**
Date: April 15, 2022 to April 16, 2022
Site: LT-02 North of 38 Mosswood Way

Hour	Leq	Lmax	L50	L90
11:00	69.6	81.1	62.3	48.2
12:00	56.4	78.0	50.1	45.5
13:00	53.9	72.4	51.6	45.9
* 14:00	55.1	69.9	53.2	47.4
15:00	56.1	79.9	53.6	48.1
16:00	54.2	73.0	51.9	48.0
17:00	55.4	71.2	53.4	48.6
18:00	52.9	71.5	49.6	44.3
19:00	53.2	78.3	48.9	43.7
20:00	51.5	69.2	47.5	44.6
21:00	50.1	71.6	46.0	42.7
22:00	49.6	69.8	44.7	42.1
23:00	49.3	76.3	42.5	40.5
0:00	47.3	69.4	40.2	38.4
1:00	42.6	63.1	38.6	37.7
2:00	41.8	56.6	40.1	38.7
3:00	53.7	64.0	50.9	45.2
4:00	59.3	67.8	57.6	54.0
5:00	55.7	76.5	53.5	49.2
6:00	58.4	82.0	55.3	49.4
7:00	55.3	73.5	52.2	46.0
8:00	56.5	72.9	55.0	49.8
9:00	54.3	75.0	51.8	47.1
10:00	53.7	71.7	50.7	46.9

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	50.1	69.2	46.0	42.7
Nighttime (10 p.m. - 7 a.m.)	41.8	56.6	38.6	37.7

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	59.4	73.9	51.9	46.5
Nighttime (10 p.m. - 7 a.m.)	54.3	69.5	47.0	43.9

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	69.6	81.1	62.3	49.8
Nighttime (10 p.m. - 7 a.m.)	59.3	82.0	57.6	54.0

Energy Distribution

Daytime	84%
Nighttime	16%

Calculated Ldn, dBA

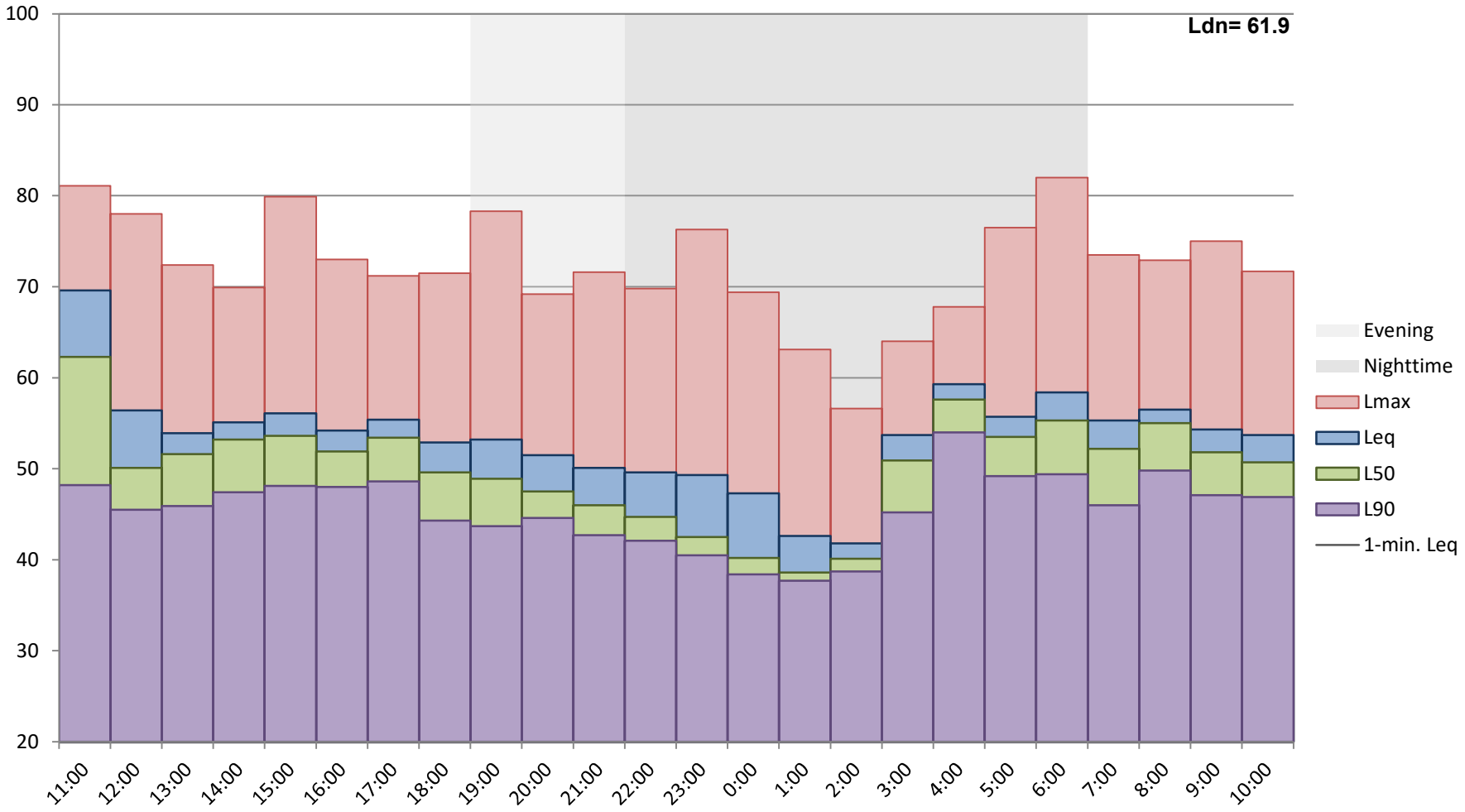
61.9

* Softball game UC vs. Stanford 2:05 pm to 5:25 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-02

April 15, 2022 to April 16, 2022



NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-02

Project: **CAL Softball Field Renovation Project**
Date: April 16, 2022 to April 17, 2022
Site: LT-02 North of 38 Mosswood Way

Hour	Leq	Lmax	L50	L90
11:00	60.6	78.7	57.0	52.6
12:00	64.1	80.9	60.3	56.1
13:00	60.3	78.3	57.4	53.0
* 14:00	55.6	76.7	52.8	48.5
15:00	57.5	69.5	56.1	52.2
16:00	58.6	71.4	56.5	51.5
17:00	57.0	75.6	54.4	48.8
18:00	55.7	81.7	48.2	43.2
19:00	52.6	73.4	48.5	42.7
20:00	50.2	70.9	44.3	40.2
21:00	51.3	74.3	45.3	41.5
22:00	50.9	76.0	44.9	42.2
23:00	49.3	72.6	43.9	41.4
0:00	46.5	68.3	42.2	40.8
1:00	47.0	70.2	41.6	39.9
2:00	47.2	70.9	40.3	39.5
3:00	43.1	67.5	38.9	37.8
4:00	40.0	58.0	38.5	37.3
5:00	44.5	58.8	40.8	39.6
6:00	50.0	70.5	47.3	43.6
7:00	49.0	66.8	45.1	41.5
8:00	50.7	69.0	48.4	43.3
9:00	51.2	67.5	48.1	43.4
10:00	52.5	70.8	49.7	43.4

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	49.0	66.8	44.3	40.2
Nighttime (10 p.m. - 7 a.m.)	40.0	58.0	38.5	37.3

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	57.4	73.7	51.5	46.8
Nighttime (10 p.m. - 7 a.m.)	47.6	68.1	42.0	40.2

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	64.1	81.7	60.3	56.1
Nighttime (10 p.m. - 7 a.m.)	50.9	76.0	47.3	43.6

Energy Distribution

Daytime	94%
Nighttime	6%

Calculated Ldn, dBA

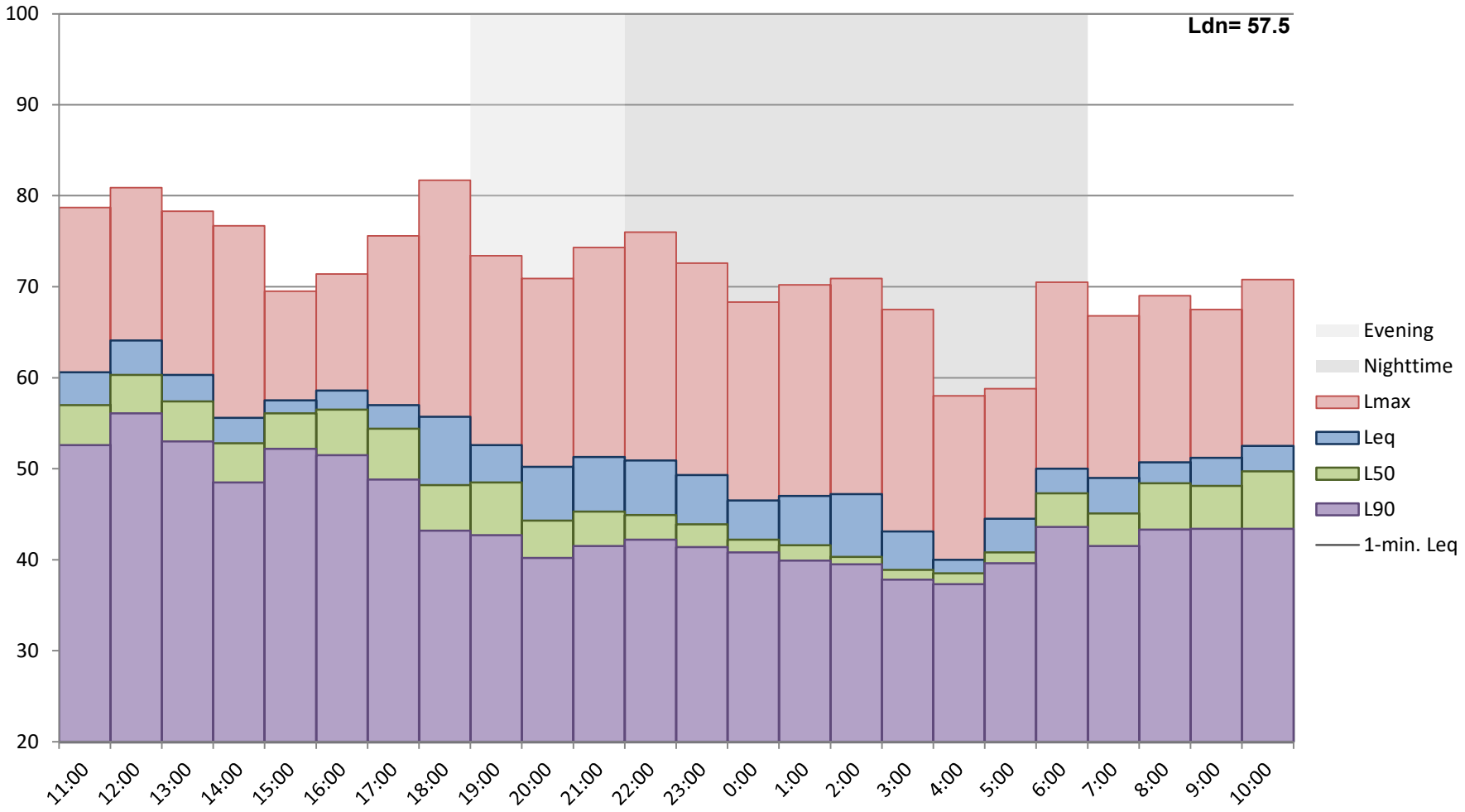
57.5

* Softball game UC vs. Stanford 2:05 pm to 4:11 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-02

April 16, 2022 to April 17, 2022



NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-03

Project: **CAL Softball Field Renovation Project**
Date: April 15, 2022 to April 16, 2022
Site: LT-03 North of 280 Panoramic Way

Hour	Leq	Lmax	L50	L90
11:00	58.5	85.5	55.4	48.4
12:00	51.6	67.0	50.4	47.9
13:00	53.5	72.1	50.9	48.6
* 14:00	57.0	72.7	54.5	50.9
15:00	58.9	79.4	54.9	51.4
16:00	58.6	79.8	54.9	51.6
17:00	57.2	75.5	52.4	48.8
18:00	52.1	71.9	49.2	46.7
19:00	51.8	68.4	49.5	46.5
20:00	52.3	73.9	49.3	47.5
21:00	50.4	65.8	48.0	46.3
22:00	49.1	65.2	46.9	44.9
23:00	48.4	71.7	45.4	43.9
0:00	45.4	63.8	43.6	42.0
1:00	45.3	72.9	41.7	40.7
2:00	44.0	55.3	42.9	41.8
3:00	55.1	64.1	52.3	46.5
4:00	61.5	70.9	59.6	56.6
5:00	56.3	63.4	55.2	51.8
6:00	58.6	71.5	56.5	50.8
7:00	54.2	67.3	50.0	47.2
8:00	54.1	62.9	52.9	49.8
9:00	50.1	70.3	48.5	46.9
10:00	52.2	65.6	50.3	48.1

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	50.1	62.9	48.0	46.3
Nighttime (10 p.m. - 7 a.m.)	44.0	55.3	41.7	40.7

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	55.2	71.9	51.4	48.4
Nighttime (10 p.m. - 7 a.m.)	55.4	66.5	49.3	46.6

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	58.9	85.5	55.4	51.6
Nighttime (10 p.m. - 7 a.m.)	61.5	72.9	59.6	56.6

Energy Distribution

Daytime	61%
Nighttime	39%

Calculated Ldn, dBA

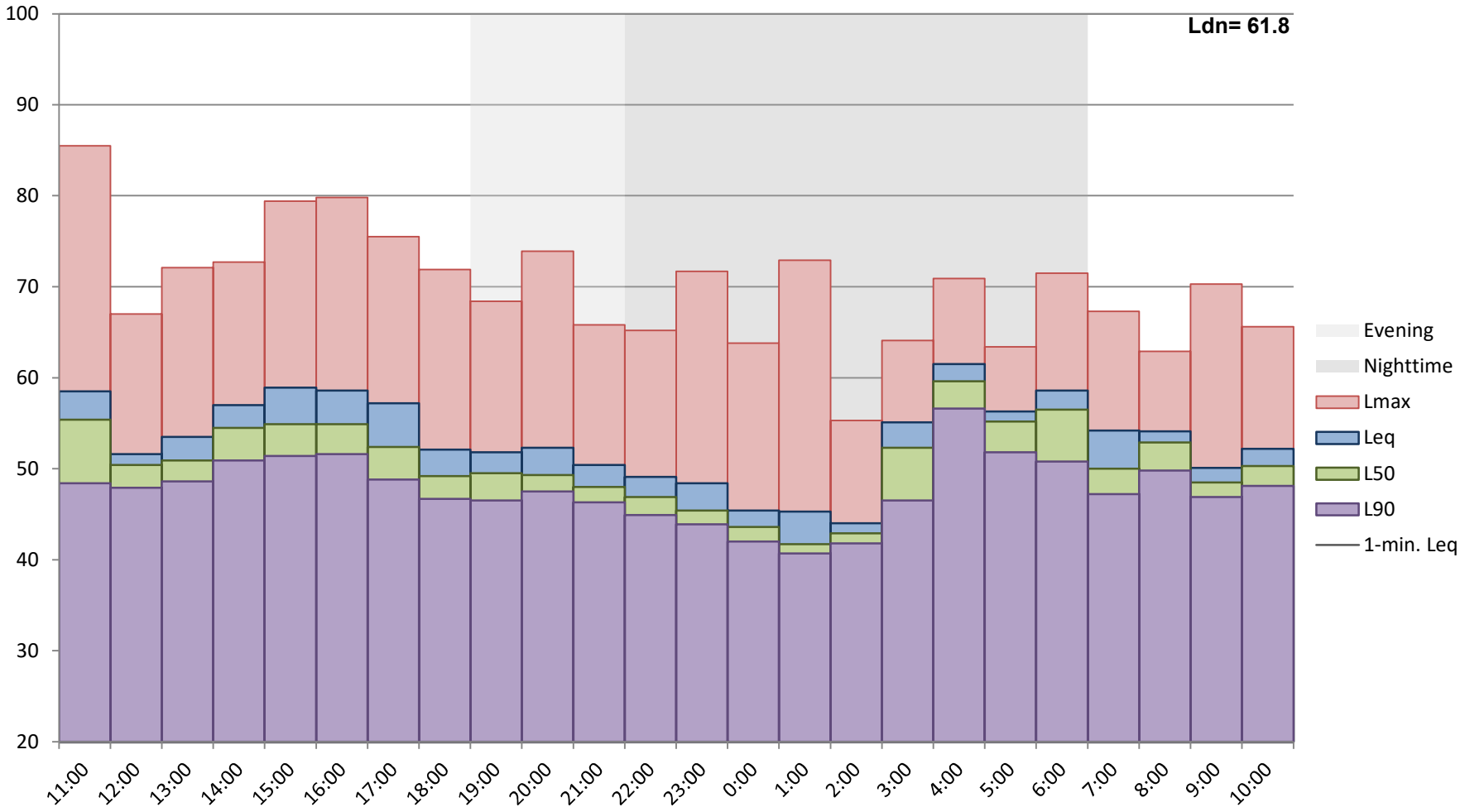
61.8

* Softball game UC vs. Stanford 2:05 pm to 5:25 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-03

April 15, 2022 to April 16, 2022



NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-03

Project: **CAL Softball Field Renovation Project**
Date: April 16, 2022 to April 17, 2022
Site: LT-03 North of 280 Panoramic Way

Hour	Leq	Lmax	L50	L90
11:00	55.2	78.3	52.5	49.9
12:00	58.8	77.1	55.3	51.7
13:00	57.9	79.4	54.7	51.7
* 14:00	58.1	75.8	55.2	51.9
15:00	59.1	75.8	56.3	53.4
16:00	57.8	78.2	54.8	50.7
17:00	55.5	78.0	52.3	48.4
18:00	51.2	71.0	47.9	45.0
19:00	50.2	76.1	47.3	44.1
20:00	47.1	59.5	45.7	43.4
21:00	50.6	70.1	48.2	44.8
22:00	48.4	59.2	48.0	45.3
23:00	47.8	64.4	46.3	44.7
0:00	46.5	62.5	45.7	44.3
1:00	46.8	67.6	44.4	43.3
2:00	47.9	72.4	43.6	42.8
3:00	45.2	71.8	42.7	41.7
4:00	43.6	55.3	43.0	41.8
5:00	45.0	52.4	44.0	43.2
6:00	46.4	56.6	45.8	44.5
7:00	47.1	59.7	45.9	44.3
8:00	46.6	65.5	44.9	42.9
9:00	47.7	68.3	45.7	43.3
10:00	48.2	71.4	46.5	44.2

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	46.6	59.5	44.9	42.9
Nighttime (10 p.m. - 7 a.m.)	43.6	52.4	42.7	41.7

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	55.0	72.3	50.2	47.3
Nighttime (10 p.m. - 7 a.m.)	46.6	62.5	44.8	43.5

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	59.1	79.4	56.3	53.4
Nighttime (10 p.m. - 7 a.m.)	48.4	72.4	48.0	45.3

Energy Distribution

Daytime	92%
Nighttime	8%

Calculated Ldn, dBA

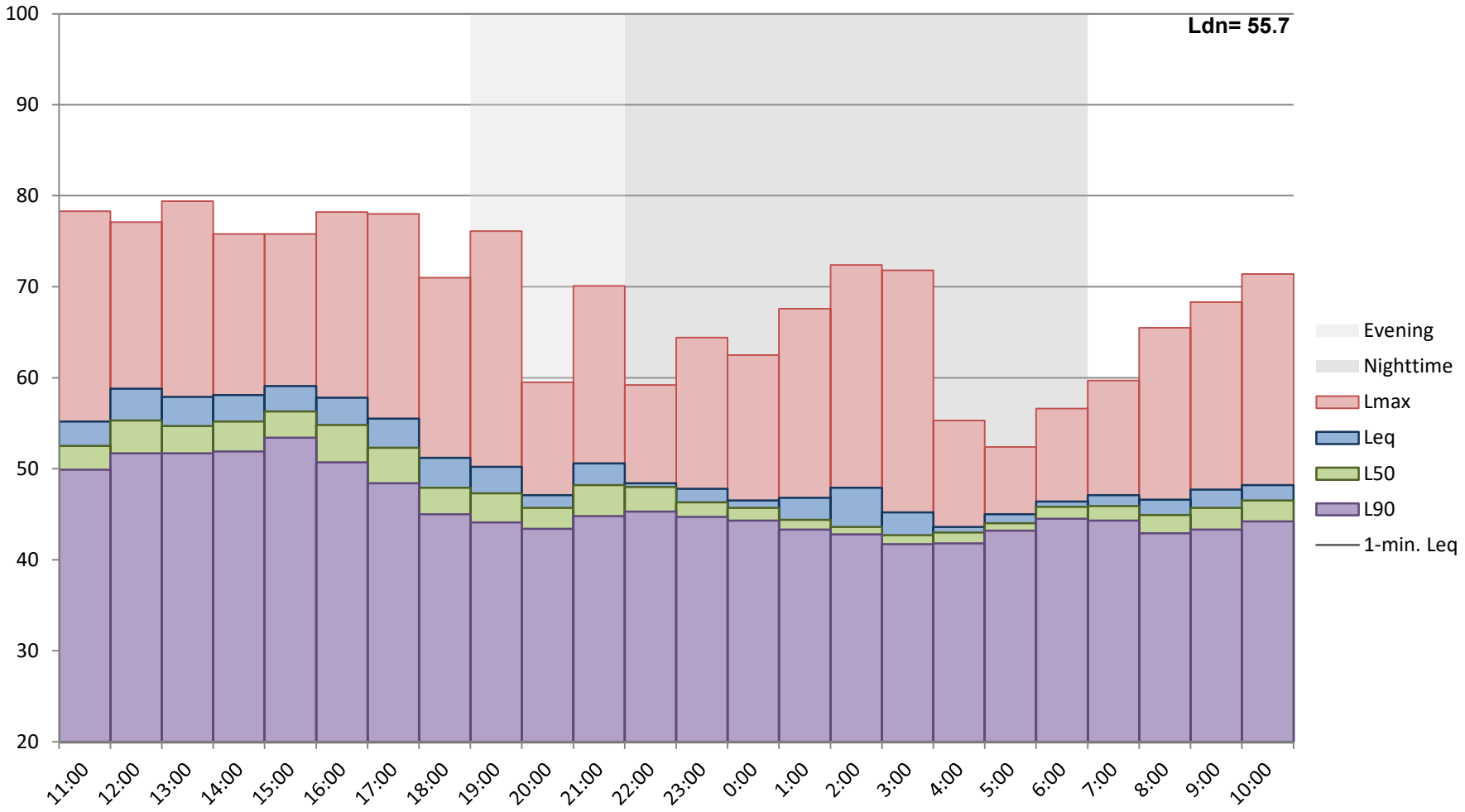
55.7

* Softball game UC vs. Stanford 2:05 pm to 4:11 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-03

April 16, 2022 to April 17, 2022



NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-04

Project: **CAL Softball Field Renovation Project**
Date: April 15, 2022 to April 16, 2022
Site: LT-04 Northof 15 Canyon Rd.

	Hour	Leq	Lmax	L50	L90
	12:00	54.8	82.1	48.0	46.1
	13:00	55.8	77.9	49.2	47.0
*	14:00	55.0	73.9	50.5	47.8
	15:00	54.5	69.8	50.1	47.6
	16:00	54.4	76.6	51.1	48.7
	17:00	54.0	68.8	50.0	47.4
	18:00	54.5	74.5	48.8	47.2
	19:00	54.1	73.6	50.0	48.1
	20:00	53.2	77.0	49.3	48.3
	21:00	51.0	67.3	48.2	47.2
	22:00	51.5	72.4	46.9	45.8
	23:00	49.3	66.5	46.0	44.5
	0:00	46.6	65.7	44.9	43.8
	1:00	46.2	68.5	44.4	42.9
	2:00	50.2	74.8	48.4	46.0
	3:00	54.0	63.9	51.6	48.4
	4:00	59.2	65.6	57.4	55.3
	5:00	55.8	71.9	54.9	51.0
	6:00	57.2	72.7	55.2	51.9
	7:00	56.2	73.4	52.3	48.6
	8:00	53.9	68.7	53.3	49.2
	9:00	52.7	72.0	48.7	47.2
	10:00	52.8	70.6	49.9	48.5
	11:00	53.1	68.3	50.6	48.9

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	51.0	67.3	48.0	46.1
Nighttime (10 p.m. - 7 a.m.)	46.2	63.9	44.4	42.9

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	54.2	73.0	50.0	47.9
Nighttime (10 p.m. - 7 a.m.)	54.3	69.1	50.0	47.7

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	56.2	82.1	53.3	49.2
Nighttime (10 p.m. - 7 a.m.)	59.2	74.8	57.4	55.3

Energy Distribution

Daytime	62%
Nighttime	38%

Calculated Ldn, dBA

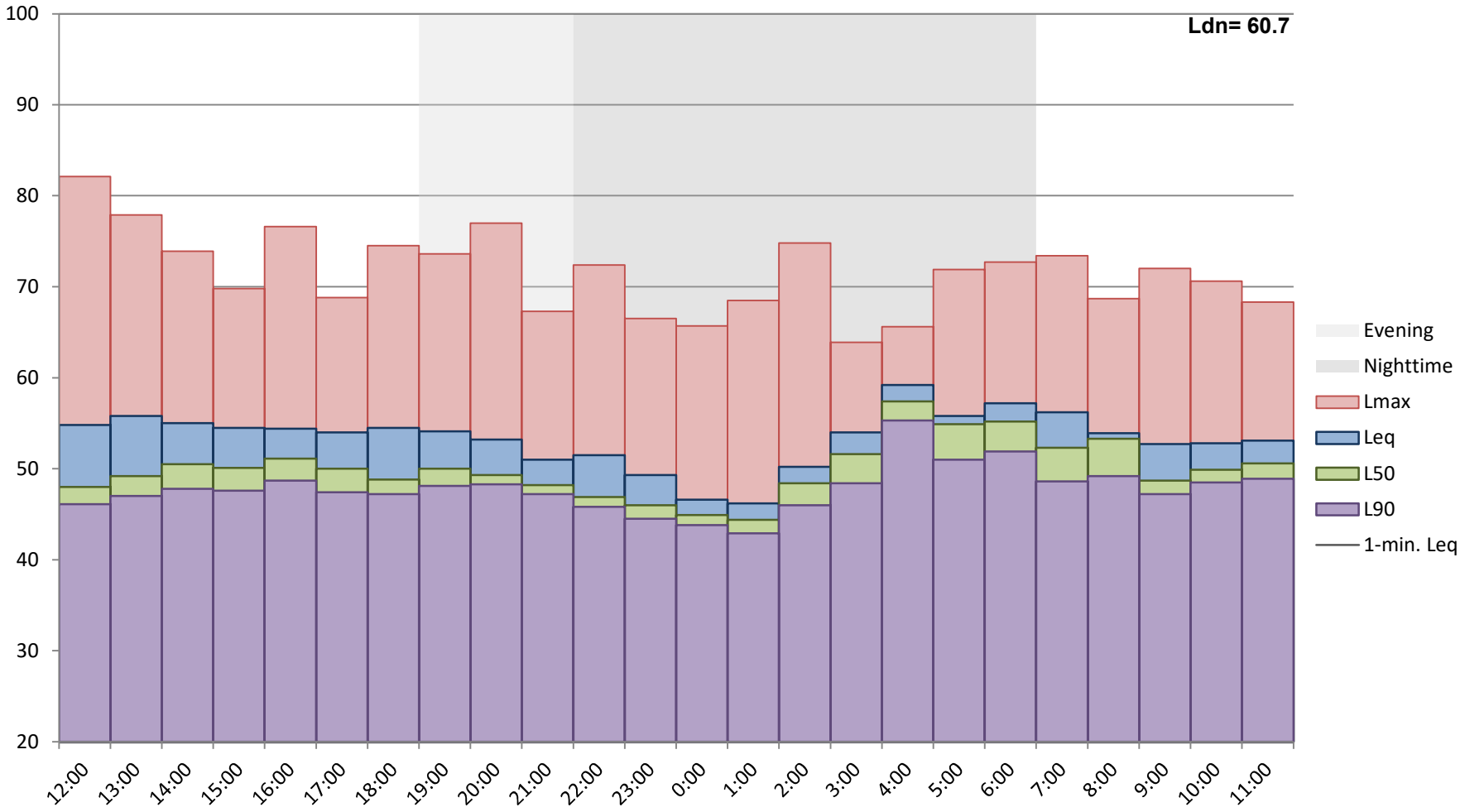
60.7

* Softball game UC vs. Stanford 2:05 pm to 5:25 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-04

April 15, 2022 to April 16, 2022



NOISE APPENDIX
Long-Term 24 Hour Continuous Noise Monitoring Logs for LT-04

Project: **CAL Softball Field Renovation Project**
Date: April 16, 2022 to April 17, 2022
Site: LT-04 Northof 15 Canyon Rd.

Hour	Leq	Lmax	L50	L90
12:00	57.1	79.8	52.7	50.4
13:00	55.5	70.5	52.8	50.6
14:00	56.5	72.9	51.2	48.8
* 15:00	55.9	73.9	52.0	49.6
16:00	56.4	79.8	50.8	47.4
17:00	52.4	72.5	49.1	46.6
18:00	52.7	76.0	46.9	45.2
19:00	50.7	75.5	46.3	44.5
20:00	49.9	70.2	45.9	44.1
21:00	54.1	73.8	51.2	46.0
22:00	52.4	72.7	48.4	46.5
23:00	49.9	70.1	48.1	47.2
0:00	49.2	72.0	46.8	45.8
1:00	47.0	64.6	45.6	44.8
2:00	46.0	67.9	45.0	44.2
3:00	47.6	77.7	44.5	43.5
4:00	46.0	63.2	45.2	43.8
5:00	47.7	68.3	46.2	45.3
6:00	48.4	67.6	47.2	46.2
7:00	48.5	66.4	47.4	46.0
8:00	51.0	74.0	46.5	44.8
9:00	57.3	84.7	47.1	44.8
10:00	57.7	86.1	48.0	45.7
11:00	52.1	71.4	47.5	46.0

Lowermost Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	48.5	66.4	45.9	44.1
Nighttime (10 p.m. - 7 a.m.)	46.0	63.2	44.5	43.5

Average Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	54.7	75.2	49.0	46.7
Nighttime (10 p.m. - 7 a.m.)	48.7	69.3	46.3	45.3

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 7 p.m.)	57.7	86.1	52.8	50.6
Nighttime (10 p.m. - 7 a.m.)	52.4	77.7	48.4	47.2

Energy Distribution

Daytime	87%
Nighttime	13%

Calculated Ldn, dBA

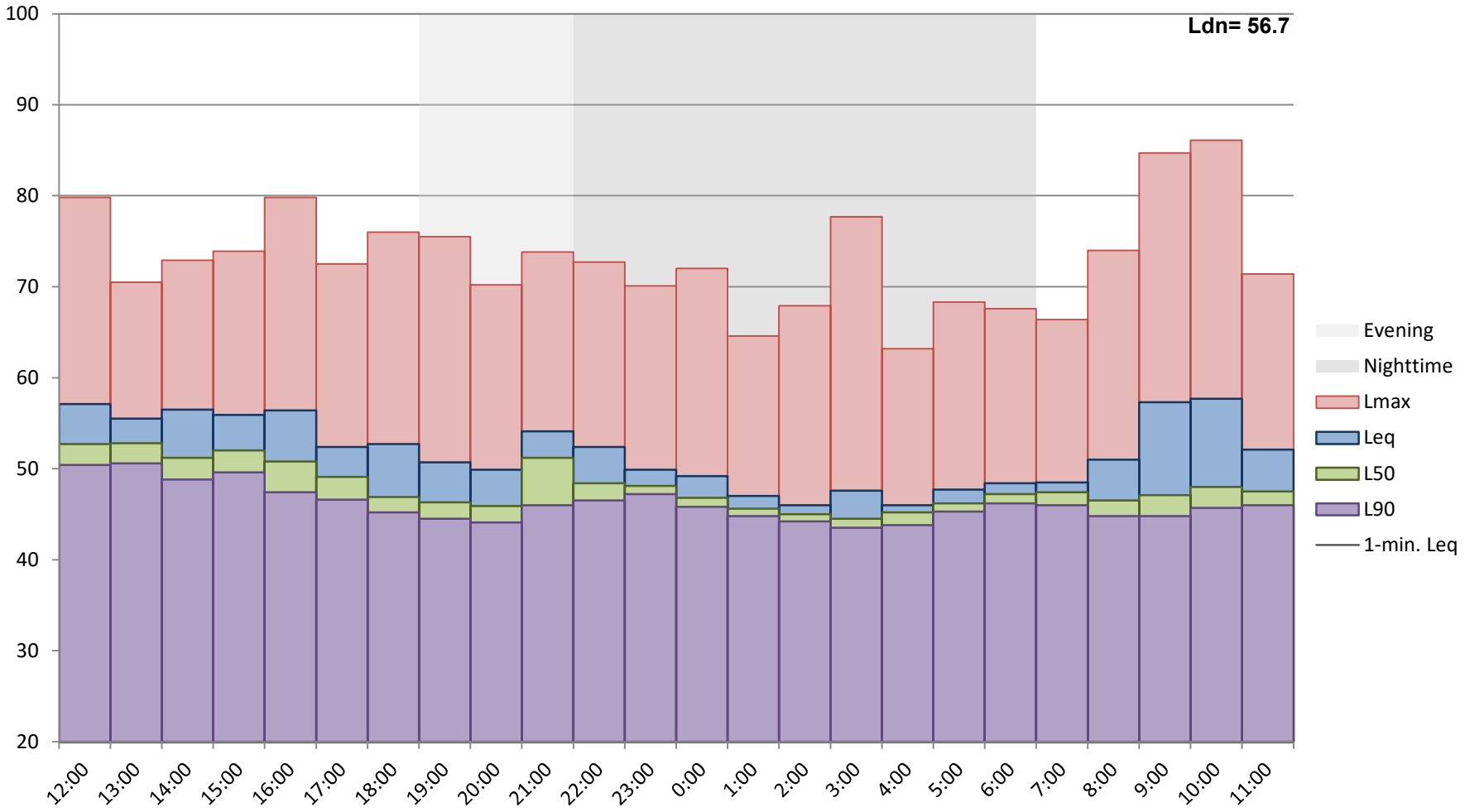
56.7

* Softball game UC vs. Stanford 2:05 pm to 4:11 pm

NOISE APPENDIX

CAL Softball Field Renovation Project - LT-04

April 16, 2022 to April 17, 2022



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: CAL SOFTBALL FIELD RENOVATION — PROJECT #: 12545.02
SITE ID: ST1
SITE ADDRESS: CENTENNIAL DRIVE — OBSERVER(S): JL
START DATE: 4/16/2022 — END DATE: 4/16/2022
START TIME: 3:45 PM — END TIME: 4:00 PM

METEOROLOGICAL CONDITIONS

TEMP: 57 F — HUMIDITY: 68 % R.H. — WIND: CALM (LIGHT) MODERATE
WINDSPD: 2-4 MPH — DIR. N NE S SE S SW (W) NW — (VARIABLE) STEADY GUSTY
SKY: SUNNY CLEAR OVRCAST (PRTLY CLDY) FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: SoftdB Piccolo II — TYPE 1 (2) — SERIAL #: 0900
CALIBRATOR: Reed R8090 — SERIAL #: 2621
CALIBRATION CHECK — PRE-MEASUREMENT: 94.0 dBA SPL — POST-MEASUREMENT: 94.0 dBA SPL — WINDSCRN: X

SETTINGS: (A-WTD) (SLOW) FAST (FRONTAL) RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
1	3:45	4:00	71.5	80.3	56.6	60.4	67.8	75.9	

COMMENTS: LIGHT TRAFFIC DURING SOFTBALL GAME, SOME GAME / CROWD NOISE CONTRIBUTION TO MEASURED SOUND LEVEL.

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER: SOFTBALL GAME
ROADWAY TYPE: 2-LANE ARTERIAL — DIST. TO RDWY C/L OR (EOP): 18 FEET
TRAFFIC COUNT DURATION: 15 MIN — SPEED 30 — ___ MIN — SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB SPEED	SB/WB SPEED
AUTOS	4/6			
MED TRKS	1			
HVY TRKS	0			
BUSES	0			
MOTRCLS	0			

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE: X

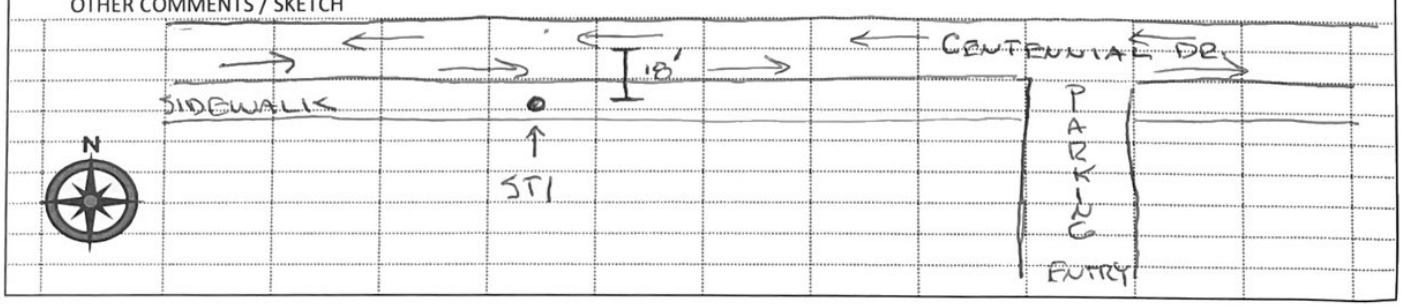
COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB SPEED	SB/WB SPEED

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY: 30

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: SOFTBALL GAME

DESCRIPTION / SKETCH

TERRAIN (HARD) SOFT MIXED FLAT OTHER:
PHOTOS
OTHER COMMENTS / SKETCH



MEASUREMENT LOCATION ST1

Start Date	Start Time	End Time	Duration (min)	SPL Rate	Freq Weight	Leq	Lmax	Lmin	Lpk	L10	L25	L50	L90
4/16/2022	3:45:00 PM	4:00:00 PM	0:15:00	Slow	dBA	71.5	80.3	56.6	114.0	75.9	73.3	67.8	60.4

NOISE APPENDIX

Construction Noise Modeling Data

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels at Closest Residential Receiver - South (CN-1)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Berkeley Ordinance	60
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	90	0.1		83.4	8	60	76
	dozer	1	40	82	82.0	90	0.1		75.4	8	60	71
	front end loader	3	40	79	83.8	90	0.1		77.1	8	60	73
							Total Lmax for Demolition Phase:		**84.8**		Total Hourly Leq:	**78.9**
Site Preparation	grader	1	40	85	85.0	90	0.1		78.4	8	60	74
	scraper	1	40	84	84.0	90	0.1		77.4	8	60	73
	front end loader	1	40	79	79.0	90	0.1		72.4	8	60	68
							Total Lmax for Site Preparation Phase:		**81.5**		Total Hourly Leq:	**77.5**
Grading	front end loader	1	40	79	79.0	90	0.1		72.4	8	60	68
	grader	1	40	85	85.0	90	0.1		78.4	8	60	74
	dozer	1	40	82	82.0	90	0.1		75.4	8	60	71
	backhoe	1	40	78	78.0	90	0.1		71.4	8	60	67
							Total Lmax for Grading Phase:		**81.3**		Total Hourly Leq:	**77.3**
Building Construction	crane	1	16	81	81.0	90	0.1		74.4	8	60	66
	gradall	2	40	83	86.0	90	0.1		79.4	8	60	75
	generator	1	50	72	72.0	90	0.1		65.4	8	60	62
	backhoe	1	40	78	78.0	90	0.1		71.4	8	60	67
	welder / torch	3	40	73	77.8	90	0.1		71.1	8	60	67
							Total Lmax for Building Construction Phase:		**81.6**		Total Hourly Leq:	**77.1**
Architectural Coating	compressor (air)	1	40	78	78.0	90	0.1		71.4	8	60	67
							Total Lmax for Architectural Coating Phase:		**71.4**			**67.4**
Paving	concrete mixer truck	1	40	79	79.0	90	0.1		72.4	8	60	68
	paver	1	50	77	77.0	90	0.1		70.4	8	60	67
	roller	2	20	80	83.0	90	0.1		76.4	8	60	69
	backhoe	1	40	78	78.0	90	0.1		71.4	8	60	67
	Dump Truck	1	40	76	76.0	90	0.1		69.4	8	60	65
							Total Lmax for Paving Phase:		**79.7**		Total Hourly Leq:	**74.8**

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels from Acoustic Center to Closest Residential Receiver - South (CN-1)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Berkeley Ordinance	60
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	250	0.1		71.8	8	60	65
	dozer	1	40	82	82.0	250	0.1		63.8	8	60	60
	front end loader	3	40	79	83.8	250	0.1		65.6	8	60	62
							Total Lmax for Demolition Phase:		**73.3**		Total Hourly Leq:	**67.4**
Site Preparation	grader	1	40	85	85.0	250	0.1		66.8	8	60	63
	scraper	1	40	84	84.0	250	0.1		65.8	8	60	62
	front end loader	1	40	79	79.0	250	0.1		60.8	8	60	57
							Total Lmax for Site Preparation Phase:		**69.9**		Total Hourly Leq:	**66.0**
Grading	front end loader	1	40	79	79.0	250	0.1		60.8	8	60	57
	grader	1	40	85	85.0	250	0.1		66.8	8	60	63
	dozer	1	40	82	82.0	250	0.1		63.8	8	60	60
	backhoe	1	40	78	78.0	250	0.1		59.8	8	60	56
							Total Lmax for Grading Phase:		**69.7**		Total Hourly Leq:	**65.8**
Building Construction	crane	1	16	81	81.0	250	0.1		62.8	8	60	55
	gradall	2	40	83	86.0	250	0.1		67.8	8	60	64
	generator	1	50	72	72.0	250	0.1		53.8	8	60	51
	backhoe	1	40	78	78.0	250	0.1		59.8	8	60	56
	welder / torch	3	40	73	77.8	250	0.1		59.6	8	60	56
							Total Lmax for Building Construction Phase:		**70.0**		Total Hourly Leq:	**65.6**
Architectural Coating	compressor (air)	1	40	78	78.0	250	0.1		59.8	8	60	56
							Total Lmax for Architectural Coating Phase:		**59.8**			**55.8**
Paving	concrete mixer truck	1	40	79	79.0	250	0.1		60.8	8	60	57
	paver	1	50	77	77.0	250	0.1		58.8	8	60	56
	roller	2	20	80	83.0	250	0.1		64.8	8	60	58
	backhoe	1	40	78	78.0	250	0.1		59.8	8	60	56
	Dump Truck	1	40	76	76.0	250	0.1		57.8	8	60	54
							Total Lmax for Paving Phase:		**68.2**		Total Hourly Leq:	**63.2**

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels at Second Closest Residential Receiver - Southwest (CN-2)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Berkeley Ordinance	60
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	180	0.1		75.2	8	60	68
	dozer	1	40	82	82.0	180	0.1		67.2	8	60	63
	front end loader	3	40	79	83.8	180	0.1		69.0	8	60	65
							Total Lmax for Demolition Phase:		**76.7**		Total Hourly Leq:	**70.8**
Site Preparation	grader	1	40	85	85.0	180	0.1		70.2	8	60	66
	scraper	1	40	84	84.0	180	0.1		69.2	8	60	65
	front end loader	1	40	79	79.0	180	0.1		64.2	8	60	60
							Total Lmax for Site Preparation Phase:		**73.3**		Total Hourly Leq:	**69.3**
Grading	front end loader	1	40	79	79.0	180	0.1		64.2	8	60	60
	grader	1	40	85	85.0	180	0.1		70.2	8	60	66
	dozer	1	40	82	82.0	180	0.1		67.2	8	60	63
	backhoe	1	40	78	78.0	180	0.1		63.2	8	60	59
							Total Lmax for Grading Phase:		**73.1**		Total Hourly Leq:	**69.1**
Building Construction	crane	1	16	81	81.0	180	0.1		66.2	8	60	58
	gradall	2	40	83	86.0	180	0.1		71.2	8	60	67
	generator	1	50	72	72.0	180	0.1		57.2	8	60	54
	backhoe	1	40	78	78.0	180	0.1		63.2	8	60	59
	welder / torch	3	40	73	77.8	180	0.1		63.0	8	60	59
							Total Lmax for Building Construction Phase:		**73.4**		Total Hourly Leq:	**68.9**
Architectural Coating	compressor (air)	1	40	78	78.0	180	0.1		63.2	8	60	59
							Total Lmax for Architectural Coating Phase:		**63.2**			**59.2**
Paving	concrete mixer truck	1	40	79	79.0	180	0.1		64.2	8	60	60
	paver	1	50	77	77.0	180	0.1		62.2	8	60	59
	roller	2	20	80	83.0	180	0.1		68.2	8	60	61
	backhoe	1	40	78	78.0	180	0.1		63.2	8	60	59
	Dump Truck	1	40	76	76.0	180	0.1		61.2	8	60	57
							Total Lmax for Paving Phase:		**71.6**		Total Hourly Leq:	**66.6**

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels from Acoustic Center to Second Closest Residential Receiver - Southwest (CN-2)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Berkeley Ordinance	60
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	340	0.1		68.8	8	60	62
	dozer	1	40	82	82.0	340	0.1		60.8	8	60	57
	front end loader	3	40	79	83.8	340	0.1		62.6	8	60	59
							Total Lmax for Demolition Phase:		**70.2**		Total Hourly Leq:	**64.3**
Site Preparation	grader	1	40	85	85.0	340	0.1		63.8	8	60	60
	scraper	1	40	84	84.0	340	0.1		62.8	8	60	59
	front end loader	1	40	79	79.0	340	0.1		57.8	8	60	54
							Total Lmax for Site Preparation Phase:		**66.9**		Total Hourly Leq:	**62.9**
Grading	front end loader	1	40	79	79.0	340	0.1		57.8	8	60	54
	grader	1	40	85	85.0	340	0.1		63.8	8	60	60
	dozer	1	40	82	82.0	340	0.1		60.8	8	60	57
	backhoe	1	40	78	78.0	340	0.1		56.8	8	60	53
							Total Lmax for Grading Phase:		**66.7**		Total Hourly Leq:	**62.7**
Building Construction	crane	1	16	81	81.0	340	0.1		59.8	8	60	52
	gradall	2	40	83	86.0	340	0.1		64.8	8	60	61
	generator	1	50	72	72.0	340	0.1		50.8	8	60	48
	backhoe	1	40	78	78.0	340	0.1		56.8	8	60	53
	welder / torch	3	40	73	77.8	340	0.1		56.6	8	60	53
							Total Lmax for Building Construction Phase:		**67.0**		Total Hourly Leq:	**62.5**
Architectural Coating	compressor (air)	1	40	78	78.0	340	0.1		56.8	8	60	53
							Total Lmax for Architectural Coating Phase:		**56.8**			**52.8**
Paving	concrete mixer truck	1	40	79	79.0	340	0.1		57.8	8	60	54
	paver	1	50	77	77.0	340	0.1		55.8	8	60	53
	roller	2	20	80	83.0	340	0.1		61.8	8	60	55
	backhoe	1	40	78	78.0	340	0.1		56.8	8	60	53
	Dump Truck	1	40	76	76.0	340	0.1		54.8	8	60	51
							Total Lmax for Paving Phase:		**65.1**		Total Hourly Leq:	**60.2**

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels at Third Closest Residential Receiver - South (CN-3)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Berkeley Ordinance	60
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	230	0.1		72.7	8	60	66
	dozer	1	40	82	82.0	230	0.1		64.7	8	60	61
	front end loader	3	40	79	83.8	230	0.1		66.4	8	60	62
							Total Lmax for Demolition Phase:		**74.1**		Total Hourly Leq:	**68.2**
Site Preparation	grader	1	40	85	85.0	230	0.1		67.7	8	60	64
	scraper	1	40	84	84.0	230	0.1		66.7	8	60	63
	front end loader	1	40	79	79.0	230	0.1		61.7	8	60	58
							Total Lmax for Site Preparation Phase:		**70.8**		Total Hourly Leq:	**66.8**
Grading	front end loader	1	40	79	79.0	230	0.1		61.7	8	60	58
	grader	1	40	85	85.0	230	0.1		67.7	8	60	64
	dozer	1	40	82	82.0	230	0.1		64.7	8	60	61
	backhoe	1	40	78	78.0	230	0.1		60.7	8	60	57
							Total Lmax for Grading Phase:		**70.6**		Total Hourly Leq:	**66.6**
Building Construction	crane	1	16	81	81.0	230	0.1		63.7	8	60	56
	gradall	2	40	83	86.0	230	0.1		68.7	8	60	65
	generator	1	50	72	72.0	230	0.1		54.7	8	60	52
	backhoe	1	40	78	78.0	230	0.1		60.7	8	60	57
	welder / torch	3	40	73	77.8	230	0.1		60.4	8	60	56
							Total Lmax for Building Construction Phase:		**70.9**		Total Hourly Leq:	**66.4**
Architectural Coating	compressor (air)	1	40	78	78.0	230	0.1		60.7	8	60	57
							Total Lmax for Architectural Coating Phase:		**60.7**			**56.7**
Paving	concrete mixer truck	1	40	79	79.0	230	0.1		61.7	8	60	58
	paver	1	50	77	77.0	230	0.1		59.7	8	60	57
	roller	2	20	80	83.0	230	0.1		65.7	8	60	59
	backhoe	1	40	78	78.0	230	0.1		60.7	8	60	57
	Dump Truck	1	40	76	76.0	230	0.1		58.7	8	60	55
							Total Lmax for Paving Phase:		**69.0**		Total Hourly Leq:	**64.1**

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels from Acoustic Center to Third Closest Residential Receiver - Southwest (CN-3)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Berkeley Ordinance	60
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	390	0.1		67.5	8	60	60
	dozer	1	40	82	82.0	390	0.1		59.5	8	60	55
	front end loader	3	40	79	83.8	390	0.1		61.2	8	60	57
							Total Lmax for Demolition Phase:		**68.9**		Total Hourly Leq:	**63.0**
Site Preparation	grader	1	40	85	85.0	390	0.1		62.5	8	60	58
	scraper	1	40	84	84.0	390	0.1		61.5	8	60	57
	front end loader	1	40	79	79.0	390	0.1		56.5	8	60	52
							Total Lmax for Site Preparation Phase:		**65.6**		Total Hourly Leq:	**61.6**
Grading	front end loader	1	40	79	79.0	390	0.1		56.5	8	60	52
	grader	1	40	85	85.0	390	0.1		62.5	8	60	58
	dozer	1	40	82	82.0	390	0.1		59.5	8	60	55
	backhoe	1	40	78	78.0	390	0.1		55.5	8	60	51
							Total Lmax for Grading Phase:		**65.4**		Total Hourly Leq:	**61.4**
Building Construction	crane	1	16	81	81.0	390	0.1		58.5	8	60	50
	gradall	2	40	83	86.0	390	0.1		63.5	8	60	59
	generator	1	50	72	72.0	390	0.1		49.5	8	60	46
	backhoe	1	40	78	78.0	390	0.1		55.5	8	60	51
	welder / torch	3	40	73	77.8	390	0.1		55.2	8	60	51
							Total Lmax for Building Construction Phase:		**65.7**		Total Hourly Leq:	**61.2**
Architectural Coating	compressor (air)	1	40	78	78.0	390	0.1		55.5	8	60	51
							Total Lmax for Architectural Coating Phase:		**55.5**			**51.5**
Paving	concrete mixer truck	1	40	79	79.0	390	0.1		56.5	8	60	52
	paver	1	50	77	77.0	390	0.1		54.5	8	60	51
	roller	2	20	80	83.0	390	0.1		60.5	8	60	53
	backhoe	1	40	78	78.0	390	0.1		55.5	8	60	51
	Dump Truck	1	40	76	76.0	390	0.1		53.5	8	60	49
							Total Lmax for Paving Phase:		**63.8**		Total Hourly Leq:	**58.9**

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels at Residential Receiver 500 feet Distance Southeast (CN-4)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Berkeley Ordinance	60
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	500	0.1		65.1	8	60	58
	dozer	1	40	82	82.0	500	0.1		57.1	8	60	53
	front end loader	3	40	79	83.8	500	0.1		58.8	8	60	55
							Total Lmax for Demolition Phase:		**66.5**		Total Hourly Leq:	**60.4**
Site Preparation	grader	1	40	85	85.0	500	0.1		60.1	8	60	56
	scraper	1	40	84	84.0	500	0.1		59.1	8	60	55
	front end loader	1	40	79	79.0	500	0.1		54.1	8	60	50
							Total Lmax for Site Preparation Phase:		**63.2**		Total Hourly Leq:	**59.2**
Grading	front end loader	1	40	79	79.0	500	0.1		54.1	8	60	50
	grader	1	40	85	85.0	500	0.1		60.1	8	60	56
	dozer	1	40	82	82.0	500	0.1		57.1	8	60	53
	backhoe	1	40	78	78.0	500	0.1		53.1	8	60	49
							Total Lmax for Grading Phase:		**63.0**		Total Hourly Leq:	**59.0**
Building Construction	crane	1	16	81	81.0	500	0.1		56.1	8	60	48
	gradall	2	40	83	86.0	500	0.1		61.1	8	60	57
	generator	1	50	72	72.0	500	0.1		47.1	8	60	44
	backhoe	1	40	78	78.0	500	0.1		53.1	8	60	49
	welder / torch	3	40	73	77.8	500	0.1		52.8	8	60	49
							Total Lmax for Building Construction Phase:		**63.3**		Total Hourly Leq:	**58.8**
Architectural Coating	compressor (air)	1	40	78	78.0	500	0.1		53.1	8	60	49
							Total Lmax for Architectural Coating Phase:		**53.1**			**49.1**
Paving	concrete mixer truck	1	40	79	79.0	500	0.1		54.1	8	60	50
	paver	1	50	77	77.0	500	0.1		52.1	8	60	49
	roller	2	20	80	83.0	500	0.1		58.1	8	60	51
	backhoe	1	40	78	78.0	500	0.1		53.1	8	60	49
	Dump Truck	1	40	76	76.0	500	0.1		51.1	8	60	47
							Total Lmax for Paving Phase:		**61.4**		Total Hourly Leq:	**56.5**

UC Berkeley Women's Softball Field Renovation Project
Construction Noise Levels at Closest Residential Receiver in Oakland- Southeast (CN-5)
No Construction Noise Barrier Included

Leq (1-hour) noise level limit for construction phase at residential land use, per Oakland Ordinance	65
hours over which Leq is to be averaged =	1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Lmax @ 50 ft. for quantify of equipment	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	concrete saw	1	20	90	90.0	1020	0.1		58.1	8	60	51
	dozer	1	40	82	82.0	1020	0.1		50.1	8	60	46
	front end loader	3	40	79	83.8	1020	0.1		51.9	8	60	48
							Total Lmax for Demolition Phase:		**59.6**		Total Hourly Leq:	**53.7**
Site Preparation	grader	1	40	85	85.0	1020	0.1		53.1	8	60	49
	scraper	1	40	84	84.0	1020	0.1		52.1	8	60	48
	front end loader	1	40	79	79.0	1020	0.1		47.1	8	60	43
							Total Lmax for Site Preparation Phase:		**56.2**		Total Hourly Leq:	**52.2**
Grading	front end loader	1	40	79	79.0	1020	0.1		47.1	8	60	43
	grader	1	40	85	85.0	1020	0.1		53.1	8	60	49
	dozer	1	40	82	82.0	1020	0.1		50.1	8	60	46
	backhoe	1	40	78	78.0	1020	0.1		46.1	8	60	42
							Total Lmax for Grading Phase:		**56.0**		Total Hourly Leq:	**52.0**
Building Construction	crane	1	16	81	81.0	1020	0.1		49.1	8	60	41
	gradall	2	40	83	86.0	1020	0.1		54.1	8	60	50
	generator	1	50	72	72.0	1020	0.1		40.1	8	60	37
	backhoe	1	40	78	78.0	1020	0.1		46.1	8	60	42
	welder / torch	3	40	73	77.8	1020	0.1		45.9	8	60	42
							Total Lmax for Building Construction Phase:		**56.3**		Total Hourly Leq:	**51.9**
Architectural Coating	compressor (air)	1	40	78	78.0	1020	0.1		46.1	8	60	42
							Total Lmax for Architectural Coating Phase:		**46.1**			**42.1**
Paving	concrete mixer truck	1	40	79	79.0	1020	0.1		47.1	8	60	43
	paver	1	50	77	77.0	1020	0.1		45.1	8	60	42
	roller	2	20	80	83.0	1020	0.1		51.1	8	60	44
	backhoe	1	40	78	78.0	1020	0.1		46.1	8	60	42
	Dump Truck	1	40	76	76.0	1020	0.1		44.1	8	60	40
							Total Lmax for Paving Phase:		**54.5**		Total Hourly Leq:	**49.5**

Equipment Description	Impact Device?	Acoustical Use Factor (%)	Lesser of or available Lmax	Spec. 721 Lmax	Measured L_{max} @50ft (dBA, slow)
All Other Equipment > 5 HP	No	50	85	85	-- N/A --
Auger Drill Rig	No	20	84	85	84
Backhoe	No	40	78	80	78
Bar Bender	No	20	80	80	-- N/A --
Blasting	Yes	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	No	50	80	80	83
Chain Saw	No	20	84	85	84
Clam Shovel (dropping)	Yes	20	87	93	87
Compactor (ground)	No	20	80	80	83
Compressor (air)	No	40	78	80	78
Concrete Batch Plant	No	15	83	83	-- N/A --
Concrete Mixer Truck	No	40	79	85	79
Concrete Pump Truck	No	20	81	82	81
Concrete Saw	No	20	90	90	90
Crane	No	16	81	85	81
Dozer	No	40	82	85	82
Drill Rig Truck	No	20	79	84	79
Drum Mixer	No	50	80	80	80
Dump Truck	No	40	76	84	76
Excavator	No	40	81	85	81
Flat Bed Truck	No	40	74	84	74
Front End Loader	No	40	79	80	79
Generator	No	50	72	72	81
Generator (<25KVA, VMS signs)	No	50	70	70	73
Gradall	No	40	83	85	83
Grader	No	40	85	85	-- N/A --
Grapple (on backhoe)	No	40	85	85	87
Horizontal Boring Hydr. Jack	No	25	80	80	82
Hydra Break Ram	Yes	10	90	90	-- N/A --
Impact Pile Driver	Yes	20	95	95	101
Jackhammer	Yes	20	85	85	89
Man Lift	No	20	75	85	75
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	90
Pavement Scarafier	No	20	85	85	90
Paver	No	50	77	85	77
Pickup Truck	No	40	55	55	75
Pneumatic Tools	No	50	85	85	85
Pumps	No	50	77	77	81
Refrigerator Unit	No	100	73	82	73
Rivit Buster/chipping gun	Yes	20	79	85	79
Rock Drill	No	20	81	85	81
Roller	No	20	80	85	80
Sand Blasting (Single Nozzle)	No	20	85	85	96
Scraper	No	40	84	85	84
Shears (on backhoe)	No	40	85	85	96
Slurry Plant	No	100	78	78	78
Slurry Trenching Machine	No	50	80	82	80
Soil Mix Drill Rig	No	50	80	80	-- N/A --
Tractor	No	40	84	84	-- N/A --
Vacuum Excavator (Vac-truck)	No	40	85	85	85
Vacuum Street Sweeper	No	10	80	80	82
Ventilation Fan	No	100	79	85	79
Vibrating Hopper	No	50	85	85	87
Vibratory Concrete Mixer	No	20	80	80	80
Vibratory Pile Driver	No	20	95	95	101
Warning Horn	No	5	83	85	83
Welder / Torch	No	40	73	73	74

NOISE APPENDIX

Operational Noise Modeling Data

Name	Existing Ambient Traffic Leq,d	Existing SB Event 500 Att. Leq,d 500	Existing SB Event 1340 Att. Leq,d 1340	Existing Traffic & SB Event 500 Att. Leq,d 500	Existing Traffic & SB Event 1340 Att. Leq,d 1340	Proposed SB Event 1000 Att. & Traf. Leq,d 1000	Proposed SB Event 1511 Att. & Traf. Leq,d 1511
67 CANYON RD | LT1	**53.5**	**63.0**	**69.6**	**63.5**	**69.7**	**64.3**	**67.2**
38 MOSSWOOD RD | LT2	**54.8**	**50.5**	**56.9**	**56.2**	**59.0**	**55.4**	**58.8**
15 CANYON WAY | LT3	**58.6**	**47.9**	**54.2**	**59.0**	**59.9**	**49.5**	**52.3**
280 PANORAMIC WAY | LT4	**56.0**	**45.8**	**52.0**	**56.4**	**57.5**	**52.8**	**56.1**
61 CANYON RD	**53.6**	**56.6**	**63.1**	**58.4**	**63.6**	**60.7**	**63.6**
53 CANYON RD	**54.0**	**55.0**	**61.5**	**57.5**	**62.2**	**58.0**	**60.7**
37 MOSSWOOD RD	**55.1**	**56.3**	**62.9**	**58.8**	**63.6**	**59.9**	**63.0**
29 MOSSWOOD RD	**56.0**	**52.9**	**59.4**	**57.7**	**61.0**	**57.2**	**60.3**
21 MOSSWOOD RD	**55.8**	**49.1**	**55.3**	**56.6**	**58.6**	**54.5**	**57.6**
44 ARDEN RD	**54.1**	**46.3**	**51.9**	**54.8**	**56.1**	**56.6**	**59.7**
99 ARDEN RD	**55.0**	**50.7**	**57.1**	**56.4**	**59.2**	**55.1**	**58.3**
48 MOSSWOOD RD	**53.3**	**47.3**	**52.8**	**54.3**	**56.1**	**57.1**	**60.2**
299 PANORAMIC WAY	**51.5**	**48.4**	**53.7**	**53.2**	**55.8**	**55.8**	**58.7**
8 PANORAMIC PL	**51.9**	**43.9**	**49.8**	**52.5**	**54.0**	**52.0**	**55.0**
335-365 PANORAMIC WY	**57.6**	**43.8**	**49.4**	**57.8**	**58.2**	**50.9**	**53.8**

Name	Rugby Only Leq,d	Softball and Rugby Existing 500	Softball and Rugby Existing 1340	Proposed Project SB and Rugby 1000	Proposed Project SB and Rugby 1511
67 CANYON RD | LT1	**67.9**	**69.1**	**71.9**	**69.5**	**70.6**
38 MOSSWOOD RD | LT2	**62.2**	**62.4**	**63.3**	**63.0**	**63.8**
15 CANYON WAY | LT3	**63.5**	**63.7**	**64.0**	**63.7**	**63.9**
280 PANORAMIC WAY | LT4	**55.8**	**56.2**	**57.3**	**57.6**	**59.0**
61 CANYON RD	**70.0**	**70.2**	**70.8**	**70.5**	**70.9**
53 CANYON RD	**70.4**	**70.5**	**70.9**	**70.6**	**70.8**
37 MOSSWOOD RD	**64.8**	**65.3**	**66.9**	**66.0**	**67.0**
29 MOSSWOOD RD	**66.1**	**66.3**	**66.9**	**66.6**	**67.1**
21 MOSSWOOD RD	**65.4**	**65.5**	**65.8**	**65.7**	**66.1**
44 ARDEN RD	**59.4**	**59.6**	**60.1**	**61.2**	**62.6**
99 ARDEN RD	**62.6**	**62.9**	**63.7**	**63.3**	**64.0**
48 MOSSWOOD RD	**55.4**	**56.0**	**57.3**	**59.3**	**61.4**
299 PANORAMIC WAY	**53.9**	**55.0**	**56.8**	**58.0**	**59.9**
8 PANORAMIC PL	**53.8**	**54.3**	**55.3**	**56.0**	**57.5**
335-365 PANORAMIC WY	**53.4**	**53.9**	**54.9**	**55.4**	**56.6**

NOISE APPENDIX

Traffic Noise Modeling Worksheets

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Centennial Drive	DATE:	8/29/2023
Scenario:	**Calibration**	BY:	J. Leech

ADT	1,880			PK HR VOL	188
SPEED	30				
PK HR %	10				
DIST CTL	18				
DIST N/F	36	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		5.0
DIST WALL	0		MED TRUCK SLE DIST		2.7
DIST W/OB	18		HVY TRUCK SLE DIST		3.0
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	67.1	65.2	63.3	57.4	66.6
MEDIUM TRUCKS	66.0	64.6	58.2	55.2	64.7
HEAVY TRUCKS	68.7	67.4	58.5	58.2	67.4
VEHICULAR NOISE	72.2	70.7	65.5	61.9	71.1

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Centennial Drive	DATE:	8/29/2023
Scenario:	**Existing**	BY:	J. Leech

ADT	5,820			PK HR VOL	582
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	58.0	56.0	54.2	48.3	57.5
MEDIUM TRUCKS	52.9	51.5	45.1	42.1	51.6
HEAVY TRUCKS	56.3	55.0	46.1	45.8	55.0
VEHICULAR NOISE	61.0	59.3	55.3	50.8	60.1

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Centennial Drive	DATE:	8/29/2023
Scenario:	**Existing + Project Average Attendance Game**	BY:	J. Leech

ADT	6,010			PK HR VOL	601
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	58.1	56.2	54.4	48.4	57.6
MEDIUM TRUCKS	53.0	51.6	45.3	42.2	51.7
HEAVY TRUCKS	56.4	55.1	46.2	46.0	55.2
VEHICULAR NOISE	61.1	59.5	55.4	51.0	60.2

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Centennial Drive	DATE:	8/29/2023
Scenario:	**Existing + Project Maximum Attendance Game**	BY:	J. Leech

ADT	5,899			PK HR VOL	590
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	58.0	56.1	54.3	48.3	57.5
MEDIUM TRUCKS	52.9	51.6	45.2	42.2	51.6
HEAVY TRUCKS	56.4	55.1	46.1	45.9	55.1
VEHICULAR NOISE	61.0	59.4	55.4	50.9	60.1

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Gayley Road	DATE:	8/29/2023
Scenario:	**Existing**	BY:	J. Leech

ADT	10,320			PK HR VOL	1,032
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	60.5	58.5	56.7	50.7	59.9
MEDIUM TRUCKS	55.4	54.0	47.6	44.6	54.1
HEAVY TRUCKS	58.8	57.5	48.5	48.3	57.5
VEHICULAR NOISE	63.4	61.8	57.8	53.3	62.6

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Gayley Road	DATE:	8/29/2023
Scenario:	**Existing + Project Average Attendance Game**	BY:	J. Leech

ADT	10,570			PK HR VOL	1,057
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	60.6	58.6	56.8	50.8	60.0
MEDIUM TRUCKS	55.5	54.1	47.7	44.7	54.2
HEAVY TRUCKS	58.9	57.6	48.7	48.4	57.6
VEHICULAR NOISE	63.6	61.9	57.9	53.4	62.7

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Gayley Road	DATE:	8/29/2023
Scenario:	**Existing + Project Maximum Attendance Game**	BY:	J. Leech

ADT	10,424			PK HR VOL	1,042
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	60.5	58.6	56.8	50.8	60.0
MEDIUM TRUCKS	55.4	54.0	47.7	44.6	54.1
HEAVY TRUCKS	58.8	57.5	48.6	48.4	57.6
VEHICULAR NOISE	63.5	61.9	57.8	53.4	62.6

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Piedmont Road	DATE:	8/29/2023
Scenario:	**Existing**	BY:	J. Leech

ADT	8,080			PK HR VOL	808
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	59.4	57.5	55.7	49.7	58.9
MEDIUM TRUCKS	54.3	52.9	46.6	43.5	53.0
HEAVY TRUCKS	57.7	56.4	47.5	47.2	56.4
VEHICULAR NOISE	62.4	60.8	56.7	52.3	61.5

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Piedmont Avenue	DATE:	8/29/2023
Scenario:	**Existing + Project Average Attendance Game**	BY:	J. Leech

ADT	8,190			PK HR VOL	819
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	59.5	57.5	55.7	49.7	58.9
MEDIUM TRUCKS	54.4	53.0	46.6	43.6	53.1
HEAVY TRUCKS	57.8	56.5	47.5	47.3	56.5
VEHICULAR NOISE	62.4	60.8	56.8	52.3	61.6

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	UC Berkeley Women's Softball Field Renovation	JN:	12545.02
ROADWAY:	Piedmont Avenue	DATE:	8/29/2023
Scenario:	**Existing + Project Maximum Attendance Game**	BY:	J. Leech

ADT	8,126			PK HR VOL	813
SPEED	30				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	45.0				
ROADWAY VIEW:					
LF ANGLE	-45				
RT ANGLE	45				
DF ANGLE	90				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0200
HEAVY TRUCKS	0.891	0.028	0.081	0.0100

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	59.4	57.5	55.7	49.7	58.9
MEDIUM TRUCKS	54.3	52.9	46.6	43.5	53.0
HEAVY TRUCKS	57.7	56.5	47.5	47.3	56.5
VEHICULAR NOISE	62.4	60.8	56.7	52.3	61.5

APPENDIX H

Evacuation Modeling Report

TO:	Shraddha Navalli Patil, Physical and Environmental Planning, UC Berkeley
FROM:	Phuong Nguyen, PE; CR Associates (CRA)
DATE:	November 7, 2023
RE:	Cal Softball Field Renovation Project Fire Evacuation Analysis – Technical Memorandum

The purpose of this technical memorandum is to assess the time required for emergency evacuation under several scenarios, assuming a wind-driven fire that results in an evacuation affecting the Cal Softball Field Renovation Project (Project) and surrounding community.[1] The following discussion of evacuation traffic simulations is not intended to be an Evacuation Plan, nor include elements typically found in an Evacuation Plan. The sole purpose of the traffic simulations is to focus on the vehicle travel times in simulated evacuation events to support the preparation of the Environmental Impact Report (EIR) for the Project under the California Environmental Quality Act (CEQA) and the CEQA Guidelines.[2]

Background and Purpose

This memorandum provides a summary of the traffic simulations conducted for evacuation of the Project and surrounding community in the City of Berkeley (City), University of California Berkeley (UCB), and Alameda County (County) due to a wildfire. The simulations have been conducted for a variety of evacuation scenarios described below.

Modeling potential evacuation traffic impacts requires that numerous assumptions be made to address many variables that will impact a real-life evacuation scenario, including the number of existing vehicles in the community, the number of project vehicles that will need to evacuate, the roadway capacities and whether enhancements are provided (e.g., extra lanes, lane widening, signaling intersections), the total number of intersections and how they will be operating, the final destination, the targeted evacuation area, the total mobilization time, vegetation communities, weather and wind, fire spread rates, humidity, topography, risk to homes, locations of ignitions and new fire starts, lead time needed, etc. There are many hundreds or thousands of potential model scenarios, and every fire scenario poses variations that regularly change and are reassessed "real-time" during a wildfire. Agencies involved in implementing an evacuation order would not rely on project-specific evacuation modeling, but on situational awareness and wildfire pre-plans, which act as an operational tool to provide high-level fire assessments and assets at risk, preferred evacuation approaches, and safety information to inform evacuation decision-making, as further described below.

The following analysis is intended to present representative evacuation scenarios using the best available information, conservative assumptions, and the best available modeling technology. In an actual emergency, unified command will take into account numerous factors including fire location and spread rates, wind speeds and direction, humidity, topography, fuel loading, emergency access routes, evacuation routes, shelter-in-place options, time needed to evacuate, and other variables, and will issue specific evacuation or shelter-in-place directives consistent with the process and protocols outlined in the City's, County's, and UCB's Emergency Operations Plans. During a wildfire, residents should comply with those directives from authorities and first responders conducting the evacuation or emergency response. The evacuation traffic model used herein is appropriate for planning and

[1] UC Berkeley Cal Softball Field Renovation Project – Wildfire Protection Plan Proposed Conditions Chapter (September 2023)

[2] CEQA is found in the California Public Resources Code, Division 13, and the CEQA Guidelines are found in Title 14 of the California Code of Regulations, commencing with Section 15000.

comparison purposes; however, it provides useful information that will be provided to agencies and emergency managers.

This technical memorandum was performed based on CRA review and understanding of the City of Berkeley Emergency Operation Plan, the Alameda County Emergency Operation Plan, UCB Emergency Operation Plan, and other applicable documents. The analysis presented herein is in accordance and does not conflict with these documents. The list of applicable applicable documents from relevant State and Local agencies is provided in **Attachment A**.

The scenarios analyzed in this report represent "worse-case" evacuation scenarios based on a conservative assumption of factors that could affect the evacuation analysis. This "worst-case" evaluation is not required by CEQA; indeed, CEQA requires the application of reasonable standards and criteria only. Nonetheless, this preparer imposed a "worst-case" evaluation out of an abundance of caution. The factors are as follow:

Timing of Evacuation: Every scenario considered assumes either an early evening or weekend (Saturday) evacuation when all surrounding community residents would likely be home. Full parking occupancy at the Tilden Park Golf course and peak attendance at the Witter Rugby Field are also taken into account.

Mass Evacuation: The analysis further assumes a total evacuation[3] taking place during early evening or weekend as an extremely worst-case scenario. In a real-life evacuation scenario, it's improbable that all residents would be home, a softball game might not be ongoing, the golf course parking lot might not be at full capacity, a rugby game might not be happening concurrently. Additionally, the evacuation analysis assumed a mass evacuation[4] of the Lawrence Berkeley National Laboratory complex. The Lawrence Berkeley National Laboratory site maintains a detailed emergency operation plan. If evacuation becomes necessary, the lab's employees would adhere to the guidelines provided in the emergency operation plan of the laboratory. Sheltering in place might be deemed a better and safer alternative due to the defensible nature of the laboratory and to alleviate traffic and reserve road space for those in higher-risk areas.

Seasonal Considerations: The softball season commences in February and concludes in late May. Examination of the Cal Softball schedule from 2018 to 2022 (excluding 2020 due to the pandemic) shows that the final softball game ends in late May. This suggests that most of the softball season transpires outside of fire season. Looking at the fire history from 2013 to 2023, as per the CalFire database, a minimal five percent (5%) of the fires in Alameda County occurred during the softball season, specifically in the month of May. Please note that while fall practice games do lead to an overall increase in users with the Project, this increase is lower than the increase in users that would occur during the spring season with the Project.

The wildfire evacuation scenarios selected for this analysis were based on a comprehensive approach that included review of fire history, after fire reports, fire behavior science, area topography, fuel types and the evolved approach to evacuations which is surgical instead of area wide. Accordingly, given

[3] The analysis assumed full evacuation of all residents, researchers/staff, visitors, athletes, etc. in the study area.

[4] A mass evacuation scenario presumes that everyone in the study area leaves simultaneously. This methodology offers a conservative analysis, as evacuating everyone at once places extra burdens and pressures on the transportation network, thereby prolonging the time needed for a complete evacuation. In a real-world evacuation situation, the incident commander, consistent with best practices, would likely employ the Zonehaven system to focus on high-risk areas, enabling a more staggered and targeted evacuation approach.

the highest probability wildfire scenarios that would result in evacuation, the perimeter populations in certain locations may be targeted for evacuation. Alameda County as well as the surrounding jurisdiction utilize the Zone Haven targeted evacuation system. In an evacuation situation, it's likely that the Incident Commander would direct a focused evacuation of zones situated near the wild urban interface, which are at higher risk. Areas that are not in immediate danger would likely be instructed to remain in place to prioritize the evacuation of vehicles from areas under direct threat. This type of evacuation is consistent with current evacuation science[5] and recent wildfires (for example, the 2017 Lilac Fire) where the phased/surgical evacuation practice has been implemented with great success.

The Project incorporates additional elements aimed at enhancing emergency vehicle access to the site. These include a proposed turnabout within the Project area and the removal of roughly 85 parking spaces, while maintaining about 25 parking spaces in the existing Witter Lot. These improvements would improve response times and decrease the number of vehicles exiting the site during an evacuation.

Project Description

The University of California, Berkeley (UC Berkeley or the university) proposes to renovate and improve the existing Cal Softball Field (Cal Softball Field or field), which is the home for the UC Berkeley Intercollegiate Athletic (IA) Women's Softball Program. The Project would preserve and upgrade the existing softball facility to meet modern safety and competition standards for the IA Women's Softball Program and Recreational Sports (Rec Sports) Intramural softball players, as well as support campus compliance with Title IX of the Education Amendments of 1972 (20 USC 1681 et seq.) (Title IX) through the provision of equitable athletics facilities for male and female student athletes. The use of the softball facility would remain the same. Proposed changes to the existing facility would include providing additional spectator and player amenities and permanent seating for up to 1,511 spectators, up from approximately 1,340 spectator seats under existing conditions. The primary physical changes associated with the Project would include providing additional permanent spectator seats in place of temporary bleachers, a press box, spectator concourse, competition-grade lights, restrooms, public address system, expanded playing field dimensions, team and locker rooms, a ticket booth, improved training facilities (e.g., batting cages), entry plaza, landscaping, sustainable design features, access and bus stop improvements and utilities. The proposed Project would remove approximately 85 parking spaces and retain approximately 25 parking spaces in the existing Witter Lot, provide for a new roundabout on the northeast corner of the site near the Strawberry Canyon pool entrance, and upgrade the existing sidewalk along the Project frontage on Centennial Drive. The proposed Project also includes the implementation of applicable UC Berkeley university continuing best practices and Project-specific transportation demand management plan and a wildfire protection plan.

During the fall, the facility would be primarily used for practices, intramural play, camps/clinics, and other occasional daytime competitions. During the spring semester, the facility use would be comparatively more active, with up to 21 regular season softball events and up to 4 post-season events, as well as practices and intramural sports and activities when not scheduled for IA use. Overall, competitive games would increase somewhat from 15 to 20 under existing conditions to up to 25 with the proposed Project. During the summer, the facility would not be used for competitions, but would be used for intramural recreation, as well as Rec Sports summer camps (same as existing uses). Non-

[5] The City of Berkeley and Alameda County employ a variety of communication methods to promptly issue evacuation orders or warnings to areas that may be impacted. Zones are used to organize evacuations, aiming to minimize traffic congestion and prioritize the safety of higher-risk areas. For additional information please see: https://berkeleyca.gov/safety-health/fire/fire-weather-evacuationhttps://berkeleyca.gov/safety-health/fire/fire-weather-evacuation and https://www.berkeleyside.org/berkeley-wildfire-guide/fire-warnings-evacuation-guidance-berkeley-california.

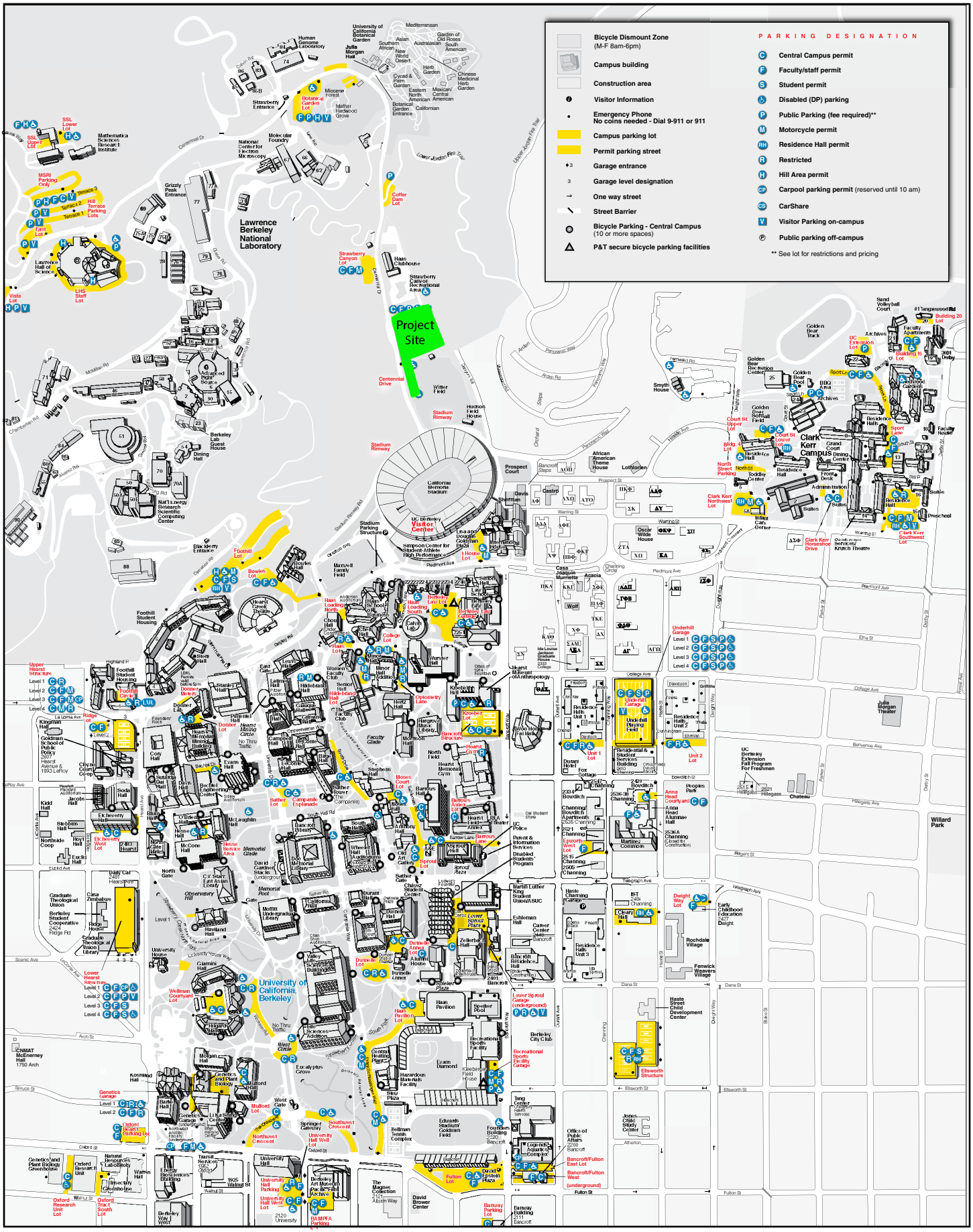
athletic events, such as concerts or other similar entertainment uses would not be allowed at the Project site.

Transportation Access and Parking

Existing primary vehicle access to the field is from Centennial Drive. As indicated previously, Witter Lot, a 110-space campus permit parking lot for faculty, staff, and students, is located along the northern edge of the project site. In addition to Cal Softball Field, Witter Lot serves Witter Rugby Field and Strawberry Canyon Pool. When portable bleachers are installed, they occupy up to 20 parking spaces in Witter Lot. Game spectators who drive to the field are directed (through existing signage and use of existing mobile apps) to park in other campus parking lots with visitor parking including the Stadium Garage at 2175 Piedmont Avenue, Underhill Garage, Lower Hearst Garage, and Recreational Sports Facility Garage. **Figure 1** displays the Project Site location and nearby parking spaces/structures.

Public transit services in the Project vicinity are provided by Alameda-Contra Costa Transit District (AC Transit). Several AC Transit routes operate near the Project site. The nearest AC Transit bus stops to the Project site include one stop on Piedmont Avenue near the UC Faculty Club (Routes F and 52), one stop at the intersection of Piedmont Avenue and Bancroft Way (Routes 36 and 79) both approximately 0.3 miles from the Project site, one stop at the intersection of College Avenue and Bancroft Way (Route 51B) approximately 0.4 miles from the Project site, and one stop at the intersection of Telegraph Avenue and Bancroft Way (Route 6) approximately 0.7 miles from the Project site.

The Project site is also served by Bear Transit. Operated by UC Berkeley, Bear Transit is a campus shuttle system that primarily serves the UC Berkeley campus and community. Daytime shuttles operate on a fixed route and schedule between 7:30 a.m. and 7:30 p.m. on weekdays only. Night shuttles operate on both weekdays and weekends, with a fixed schedule between 7:30 p.m. and 3:00 a.m. and door-to-door service throughout the service area between 3:00 a.m. and 6:00 a.m. The nearest Bear Transit bus stops to the Project site includes two on Centennial Drive: one directly across the street from the Project site, serving the westbound H Line, and one about 250 feet east of the Project site, serving the eastbound H Line. The P-Line and the R-Line also both have stops along Piedmont Avenue near the Haas School of Business, approximately 0.3 miles from the Project site.



Cal Softball Field Renovation Project Fire Evacuation Analysis
Technical Memorandum

C+R

Figure 1
Project Site Location

Assumptions

This evacuation analysis was performed for the Project to determine how long it would take for users and spectators of the Cal Softball Field project and the surrounding community to evacuate to nearby urban areas in case of a fire emergency. Current evacuation practice typically targets the scope of the evacuation only to the area in immediate danger. This practice allows for better evacuation operations, reduces gridlock, and reserves sufficient travel way for emergency vehicles. It is assumed that first responders or law enforcement will direct traffic at all major intersections during the evacuation process.

During the evacuation process, the generally unexposed, developed evacuation corridors, wildfire progress may be slowed by firefighting efforts that would likely include fixed wing and helicopter firefighting assets. Hand crews would also be deployed toward containment.

Evacuating Vehicles

The methods used to estimate the number of vehicles evacuating each area, classified by land use, are detailed below:

Residential Areas: The estimated number of evacuating vehicles in residential areas was arrived at by multiplying the total count of residential units by the local average vehicle ownership rate of 1.86 vehicles per household.

Tilden Park Golf Course: For a conservative estimate, it was assumed that the golf course would be at full capacity during evacuation.

Cumulative Evacuation: The cumulative scenarios assumed a complete implementation of the UC Berkeley Long Range Development Plan (LRDP), a 10% increase in evacuating vehicles for non-residential land uses located outside of the LRDP area, and an increase of 5% in the number of vehicles evacuating from residential areas. This 5% increase for residential land use was chosen as a conservative approach to factor in possible residential developments such as conversions into condos, extensions to existing residences, the addition of accessory dwelling units, and other minor enhancements.[6]

Public Parking Spaces and Lawrence Berkeley National Laboratory: Aerial images and the data from the University of California Berkeley Parking Study by National Data & Surveying Services (NDS 2019 parking study) were used to estimate the number of evacuating vehicles from each of the public parking lots, as well as the laboratory-associated parking lot.

Existing Project Site: The average attendance of the Project, which is 592 users (500 spectators and 92 players, coaches and staff) translating to 173 vehicles, was determined by the Project team through ticket sales and intercept surveys. The maximum attendance under existing conditions for the Project site is 1,432 users or 439 vehicles.

Proposed Project Site: The proposed Project conditions indicate an increase in the average attendance by 500 users and 158 vehicles, resulting in a total of 1,092 users and 331 vehicles. The proposed maximum attendance would see an increase of 171 users and 54 vehicles, resulting in a total of 1,603 users and 493 vehicles.

[6] Based on review of the City's Planning Portal on June 30, 2023. https://berkeley.buildingeye.com/planning

For the analysis, these scenarios assumed that two percent (2%) of the evacuating vehicles are heavy vehicles (trucks with trailers). Two percent is the nationally acceptable ratio of heavy vehicles to all vehicles[7]. Evacuating vehicles calculations are provided in **Attachment B**.

Evacuation Areas

The selection of evacuation areas was made using a conservative approach that encompassed all land use types near the Project's location and could potentially share the same evacuation route network as the traffic from the Project. The areas included were within the High and Very High Fire Severity Zones, as determined by the fire severity zone maps obtained from the City of Berkeley[8] and the State of California[9]. It should be noted that the most recent fire severity zone map from the City and State of California identify the high fire severity zone as north of Gayley Road, however, to maintain a conservative approach this study utilized the larger fire severity zones identified in the City of Berkeley Fire Zone Map (Zones 2 & 3)[10]. **Figure 2** displays the evacuation area and evacuation routes.

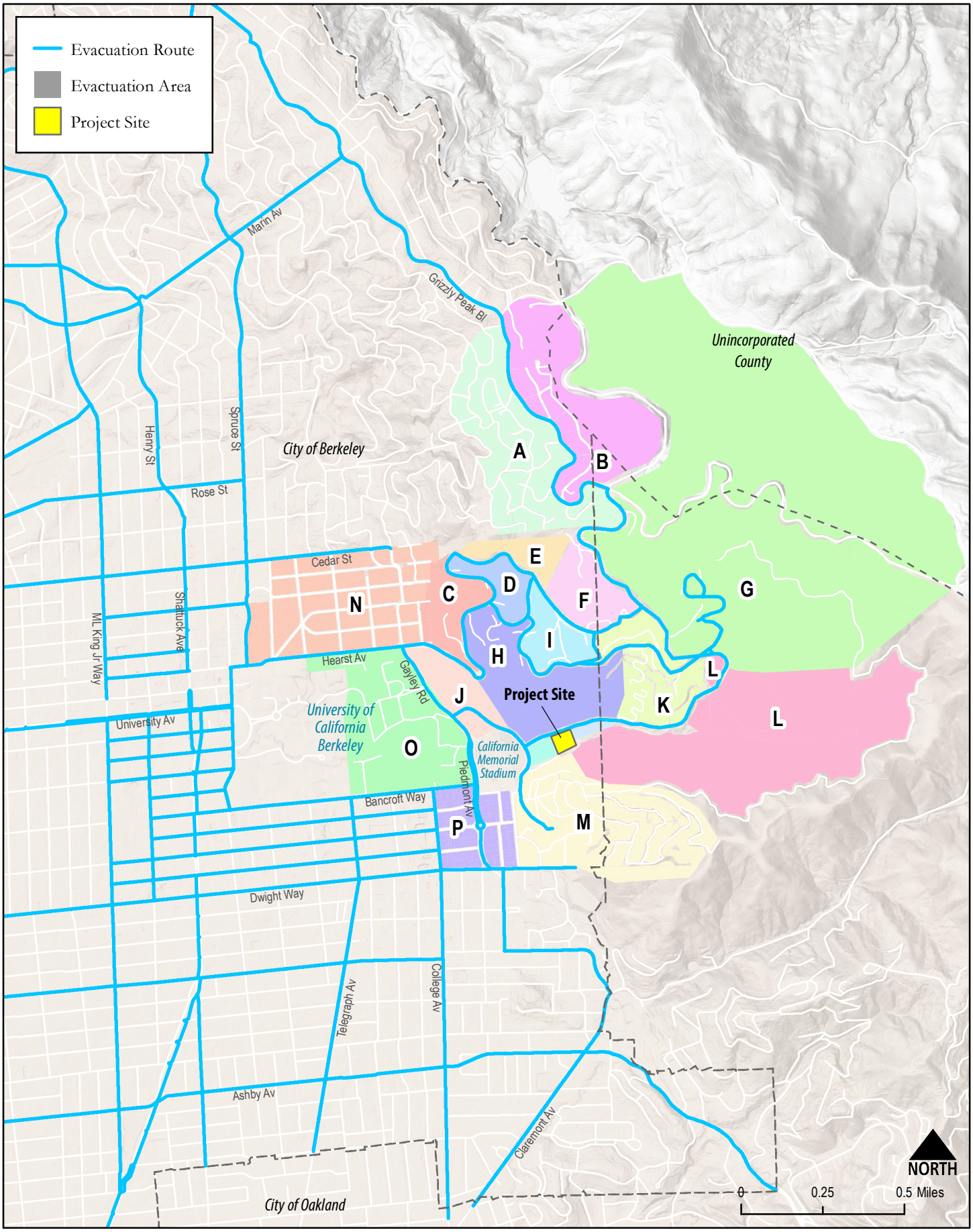
These parking structures are situated near the Hill Campus and are surrounded by vegetation managed according to the University of California Berkeley's Wildland Vegetative Fuel Management Plan. The combination of fuel management practices and concrete construction makes these parking structures more defensible compared to areas with greater exposure to vegetation. Consequently, in a real evacuation situation, incident commanders and campus safety personnel have various strategies at their disposal for managing evacuating traffic. This could include temporarily halting vehicles from leaving the parking structures in order to prioritize the flow of traffic from more vulnerable hillside areas.

[7] https://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_599.pdf (p.5)

[8] https://osfm.fire.ca.gov/media/5604/berkeley.pdf

[9] https://calfire-forestry.maps.arcgis.com/apps/webappviewer/index.html?id=988d431a42b242b29d89597ab693d008

[10] https://berkeleyca.gov/sites/default/files/2022-04/Berkeley-Fire-Zone-Map.pdf



Cal Softball Field Renovation Project Fire Evacuation Analysis Technical Memorandum

Figure 2
Fire Evacuation Area

Evacuating Scenarios

To provide a comprehensive analysis a total of 18 evacuation scenarios were analyzed to represent the different scenario under existing weekday (4 scenarios), existing weekend (4 scenarios), cumulative weekday (4 scenarios), cumulative weekend (4 scenarios), and hillside evacuation only (weekday, 2 scenarios).

The first 16 scenarios represent a conservative analysis of the existing and cumulative conditions without and with the proposed Project, as they assumed mass evacuation. The last two scenarios focus solely on hillside evacuations and provide a more accurate depiction of potential evacuation conditions. This is because the hillside communities are situated within the "Interface level"[11] of the Wildland-Urban Interface, making them more vulnerable to risk[12]. As a result, these areas are more likely to receive evacuation orders earlier than other parts of the study area.

Because the purpose of the analysis is to determine the change in evacuation time when compared to baseline conditions, all of the existing and cumulative scenarios without the "Project" assumed either existing average softball attendance or existing max softball attendance. **Table 1** summarizes the evacuation assumptions under each of the scenarios.

Table 1 illustrates that the most significant changes in the quantity of evacuated vehicles take place under various "average" scenarios. Additionally, the most substantial shift in evacuation times between the baseline and the "with Project" conditions would likely occur under the various weekday scenarios, where vehicle numbers are higher. In these weekday scenarios, the multiplication of the large number of baseline vehicles by any potential delay would result in a longer overall delay. As a result, the evacuation summary provided in this section focused on the "average" weekday scenarios during weekdays (bolded). Comprehensive analysis results for all scenarios are included in Appendix B.

Table 1 – Evacuating Scenarios Summary

Scenario	Scenario Name	Evacuation Area	Nearby Land Uses Vehicles	Softball Field Vehicles	Total Vehicles
1	Existing Weekday (Average)	All	7,429	173	7,602
2	Existing Weekday (Average) with Project	All	7,429	331	7,760
3	Existing Weekday (Max)	All	7,429	439	7,868
4	Existing Weekday (Max) with Project	All	7,429	493	7,922
5	Existing Weekend (Average)	All	7,151	173	7,324
6	Existing Weekend (Average) with Project	All	7,151	331	7,482
7	Existing Weekend (Max)	All	7,151	439	7,590
8	Existing Weekend (Max) with Project	All	7,151	493	7,644
9	Cumulative Weekday (Average)	All	8,238	173	8,411
10	Cumulative Weekday (Average) with Project	All	8,238	331	8,569
11	Cumulative Weekday (Max)	All	8,238	439	8,677
12	Cumulative Weekday (Max) with Project	All	8,238	493	8,731

[11] https://cwpp-berkeley.hub.arcgis.com/apps/berkeley-cwpp-community-base-map/explore
[12] https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fsbdev3_053107.pdf

Table 1 – Evacuating Scenarios Summary

Scenario	Scenario Name	Evacuation Area	Nearby Land Uses Vehicles	Softball Field Vehicles	Total Vehicles
13	Cumulative Weekend (Average)	All	7,889	173	8,062
14	Cumulative Weekend (Average) with Project	All	7,889	331	8,220
15	Cumulative Weekend (Max)	All	7,889	439	8,328
16	Cumulative Weekend (Max) with Project	All	7,889	493	8,382
17	Existing Weekday (Average) – Hillside Evacuation Only	F, G, K, L, O, P	1,437	173	1,610
18	Existing Weekday (Average) with Project – Hillside Evacuation Only	F, G, K, L, O, P	1,437	331	1,768

As previously stated in this memo, in evacuation situations, the Incident Commander might prioritize areas with the highest exposure to the wildland-urban interface, like areas F, G, K, L, and O (Scenario 17). It is plausible that visitors or users of the Project site, upon noticing these evacuating vehicles, might opt to leave the area with the exiting traffic (Scenario 18), even without instructions to evacuate.

Extreme Wildfire Event

The evacuation analysis set forth below assumes a Diablo-wind driven fire from the north and/or east of the study area that travels in a westerly and southerly direction. This fire condition is the one most likely to require a large-scale evacuation, and the one that creates the most risk to property and humans.

In California, wildfire-related large-scale evacuations are almost exclusively associated with wildfires that occur on extreme fire weather days, also known as "Red Flag Warning" days. These days occur when relative humidity drops to low levels and strong winds from the north/northeast are sustained. With climate change, periods in which such wildfires occur may increase. During Red Flag Warning days, vegetation is more likely to ignite and fire spread is more difficult to control. In Alameda County, these extreme weather days typically occur during limited periods in the late summer, fall and, occasionally, in the spring, but may occur at other times on a less frequent basis. Currently, it is not common to experience more than 20 to 25 Red Flag Warning days in a typical year[13] and less than 10% of the classified as Extreme Fire Weather[14]. Wildfires that occur during these periods of extreme weather are driven by winds – referred to as "Diablo" winds – that come from the north or east and blow toward the south or west. Fires driven by these winds move very quickly, making them difficult to control. In response to such fires, emergency managers typically activate pre-planned evacuation triggers that require down-wind communities to sequentially be notified to evacuate and move to nearby urbanized areas prior to the fire's encroachment.

Wildfires that occur on non-extreme weather days behave in a much less aggressive manner and pose fewer dangers to life and property because they include less aggressive fire behavior and are easier to control. Terrain and fuel are typically the wildfire drivers. During these non-extreme weather days,

[13] Iowa Environmental Mesonet Data IEM :: NWS Watches Warnings Advisories Download (iastate.edu)IEM :: NWS Watches Warnings Advisories Download (iastate.edu)

[14] In 2020, two days were classified as Extreme Fire Weather days out of 25 Red Flag Weather days. https://berkeleyca.gov/safety-health/fire/fire-weather-evacuation

vegetation is much more difficult to ignite and does not spread fire as rapidly. In these situations, firefighters have a very high success rate of controlling fires and keeping them under 10 acres. CALFIRE estimates that 90% of all vegetation fires occur during normal, onshore weather conditions and that such fires account for only 10% of the land area burned. Conversely, the 10% of wildfires that occur during extreme fire weather account for 90% of the land area burned[15]. This data highlights that the most dangerous fire conditions are those related to a fire that moves rapidly due to high winds and low humidity, whereas under normal conditions fires are likely to be controlled with no evacuation or possibly limited extent, focused evacuations.

Evacuation Routes

CRA assumed that both the Project's and adjacent land uses' evacuation traffic would utilize local streets to access emergency evacuation routes[16]. From there, all possible evacuation routes would be employed to move westward, out of high and very high fire severity zones. No contraflow lanes were assumed to provide access.[17] Two-way travel was assumed, with evacuating vehicles traveling outbound to the Safe Zone. It is assumed that first responders or law enforcement will direct traffic at all major intersections during the evacuation process. Should evacuation managers determine that contraflow is preferred or necessary, evacuation capacity would increase while evacuation times would decrease.

Note that the City of Berkeley's 2019 Local Hazard Mitigation Plan outlines alternate evacuation paths for residents of the hillside, featuring a wide-ranging network of trails that facilitate more direct exits from the area during emergencies. However, the current analysis intentionally does not factor in these trail networks, aiming for a more conservative assessment.[18].

Analysis Methodology

To analyze the evacuation events, CRA conducted simulations using *Vissim*, a microscopic, multimodal traffic flow modeling software used to simulate different traffic conditions. In *Vissim* simulations, roadway capacity is accounted for and each vehicle in the traffic system is individually tracked through the model and comprehensive measures of effectiveness, such as average vehicle speed and queueing, are collected on every vehicle during each 0.1-second of the simulation. This software enables drivers' behaviors during an evacuation to be replicated. A total of 20 simulations were conducted to yield a reasonable sample size to determine the performance of the study area roadways and impacts during evacuation scenarios. To be conservative, CRA assumed a worst-case scenario that all vehicles belonging to households in the study area would be used in the evacuation, instead of the necessary number of vehicles needed to evacuate the impacted population.

[15] CAL FIRE. 2018. Wildfires 2018. Page 186
[16] https://berkeleyca.gov/sites/default/files/documents/Berkeley-Emergency-Access-Evacuation-Routes-06-2011.pdf
[17] Contraflow or lane reversal involves directing traffic to use lanes coming from the source of a hazard to move people away from the hazard. Such a strategy can be used to eliminate bottlenecks in communities with road geometries that prevent efficient evacuations or to facilitate traffic flow out of a major urban area. Among the considerations in planning emergency contraflow are whether sufficient traffic control officers are available, potential negative impact on responding fire apparatus, access management, merging, exiting, safety concerns, and labor requirements. Contraflow configurations must be carefully planned based on on-site factors and should not be implemented in an *ad-hoc* fashion. Dudek July 2014. "Wildland Fire Evacuation Procedures Analysis" for City of Santa Barbara, California, page 65.
[18] City of Berkeley 2019 Local Hazard Mitigation Plan – page B-102
https://berkeleyca.gov/sites/default/files/2022-01/Local-Hazard-Mitigation-Plan-2019.pdf

Evacuation Analysis & Results

Based on the analysis methodology described above, **Table 2** reflects evacuation times for each of the average scenarios, given that these scenarios represent the greatest increase in the number of evacuating vehicles with the Project, as demonstrated in Table 1. Comprehensive analysis results for all scenarios are included in **Attachment C**. The results, as presented in Table 2 show the following:

- **Existing With Project (Weekday)** - The greatest increases in evacuation time with the Project for existing weekday scenarios are observed in areas J (7 minutes 9 seconds) and P (10 minutes 25 seconds). These areas include parking structures, resulting in a longer exit time for the Project's traffic. The largest increase in evacuation time for a non-parking structure area is seen in area G, with an increase of 4 minutes and 54 seconds.
- **Existing With Project (Weekend)** - For the weekend scenarios, the greatest changes in evacuation time with the Project are also seen in areas J (3 minutes 16 seconds) and P (5 minutes 18 seconds). Again, these are areas with parking structures, meaning it would take a more extended period for the Project's traffic to vacate the structures. The greatest increase in evacuation time for a non-parking structure area with the Project would happen in area G, at 2 minutes and 41 seconds.
- **Hillside Only With Project (Weekday)** - The greatest changes in evacuation time with the Project under the Hillside only scenario are seen in areas L (4 minutes 38 seconds) and P (7 minutes 22 seconds). Again, these are areas with parking structures, meaning it would take a more extended period for the Project's traffic to vacate the structures. The greatest increase in evacuation time for a non-parking structure area with the Project in the Hillside only scenario would happen in area G, at 3 minutes and 37 seconds.
- **Cumulative With Project (Weekday and Weekend)** - Under the cumulative scenarios, the largest changes are found at area J (weekday: 10 minutes 26 seconds/weekend: 6 minutes 19 seconds), area P (weekday: 11 minutes 11 seconds/weekend: 5 minutes 57 seconds), and area G (weekday: 5 minutes 34 seconds/weekend: 5 minutes 13 seconds).

The proposed Project incorporates several characteristics that would foster efficient and safe evacuation, as provided in the UC Berkeley Cal Softball Field Renovation Project Wildfire Protection Plan – Proposed Conditions Chapter (Sherwood Design Engineers, September 2023) and is included as **Attachment C**. However, these elements are conservatively not included in the evacuation time results. Such features include preparedness for evacuation[19], fuel modification along Project roadways being conducted under the adopted UCB Hill Campus Wildland Vegetative Management Plan[20], a turnaround area for emergency vehicles, and reduction in project site parking and implementation of a project-specific TDM plan to reduce vehicle travel to the site. Additionally, the EIR for the Project includes a mitigation measure requiring pedestrian safety improvements between the project site and the adjacent access routes along Stadium Rim Way and Canyon Road to improve pedestrian access between the project site and adjacent parking lots. While these enhancements could minimize the possibility of evacuation friction or interruption, the traffic evacuation model does not aptly represent them. Further limitations of the model are explained in the following sections.

[19] See UCB Emergency Operation Plan and Project Element under the Wildfire Protection Plan

[20] https://capitalstrategies.berkeley.edu/hill-campus

Table 2 – Evacuation Time by Area by Scenario

Scenario	Name	Evacuating Vehicles			Zone Evacuation Time														
		Nearby Land Uses	Project	Total	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Existing Weekday (Average)	7,429	173	7,602	0:46:56	1:18:24	0:35:09	0:45:30	0:43:09	0:55:54	1:21:57	0:40:22	0:50:59	1:20:24	0:58:18	0:42:50	0:55:18	2:08:39	0:25:50	0:53:05
2	Existing Weekday (Average) with Project	7,429	331	7,760	0:46:56	1:18:24	0:35:09	0:45:30	0:43:09	0:55:54	1:26:51	0:40:22	0:50:59	1:27:33	1:01:36	0:42:50	0:55:34	2:08:40	0:25:50	1:03:30
Change in Evacuation Time		-	**158**	**158**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:04:54**	**0:00:00**	**0:00:00**	**0:07:09**	**0:03:17**	**0:00:00**	**0:00:16**	**0:00:01**	**0:00:00**	**0:10:25**
5	Existing Weekend (Average)	7,151	173	7,324	0:46:56	1:13:26	0:32:28	0:40:57	0:38:30	0:50:02	1:19:34	0:37:10	0:46:34	1:19:21	0:57:39	0:41:01	0:55:46	2:06:51	0:23:48	0:55:38
6	Existing Weekend (Average) with Project	7,151	331	7,482	0:46:56	1:13:26	0:32:28	0:40:57	0:38:30	0:50:02	1:22:15	0:37:10	0:46:34	1:22:37	0:59:49	0:41:08	0:55:46	2:06:51	0:23:48	1:00:56
Change in Evacuation Time		-	**158**	**158**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:02:41**	**0:00:00**	**0:00:00**	**0:03:16**	**0:02:10**	**0:00:08**	**0:00:00**	**0:00:00**	**0:00:00**	**0:05:18**
9	Cumulative Weekday (Average)	8,238	173	8,411	0:48:44	1:42:31	0:46:43	1:12:18	1:04:26	1:25:54	1:30:02	0:59:37	1:19:28	1:32:01	1:01:28	0:43:39	0:57:41	2:16:49	1:14:37	0:58:28
10	Cumulative Weekday (Average) with Project	8,238	331	8,569	0:48:44	1:42:31	0:46:43	1:12:18	1:04:26	1:25:54	1:35:36	0:59:37	1:19:28	1:42:27	1:04:50	0:43:39	0:58:26	2:16:49	1:14:37	1:09:39
Change in Evacuation Time		-	**158**	**158**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:05:34**	**0:00:00**	**0:00:00**	**0:10:26**	**0:03:22**	**0:00:00**	**0:00:45**	**0:00:00**	**0:00:00**	**0:11:11**
13	Cumulative Weekend (Average)	7,889	173	8,062	0:48:44	1:38:41	0:43:42	1:04:08	1:00:13	1:16:23	1:23:36	0:54:09	1:11:51	1:26:55	0:59:26	0:42:11	0:58:04	2:14:23	1:06:39	0:57:25
14	Cumulative Weekend (Average) with Project	7,889	331	8,220	0:48:44	1:38:41	0:43:42	1:04:08	1:00:13	1:16:23	1:28:49	0:54:09	1:11:51	1:33:15	1:01:42	0:42:11	0:58:04	2:14:23	1:06:39	1:03:22
Change in Evacuation Time		-	**158**	**158**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:05:13**	**0:00:00**	**0:00:00**	**0:06:19**	**0:02:16**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:05:57**
17	Existing Weekday (Average) – Hillside Evacuation Only	1,437	173	1,610	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:21:00	0:38:05	0:00:00	0:00:00	0:00:00	0:29:10	0:23:15	0:54:36	0:00:00	0:00:00	0:22:42
18	Existing Weekday (Average) with Project – Hillside Evacuation Only	1,437	331	1,768	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:21:00	0:41:42	0:00:00	0:00:00	0:00:00	0:32:59	0:27:53	0:55:19	0:00:00	0:00:00	0:30:04
Change in Evacuation Time		-	**158**	**158**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:00:00**	**0:03:37**	**0:00:00**	**0:00:00**	**0:00:00**	**0:03:49**	**0:04:38**	**0:00:43**	**0:00:00**	**0:00:00**	**0:07:22**

Analysis and Conclusion

Study of evacuation timeframes and potential increases in evacuation time with a proposed project are relatively new CEQA focus areas. Public safety, not time, is generally the guiding consideration for evaluating impacts related to emergency evacuation. Consistent with CEQA Guidelines Appendix G, a Project's impact on evacuation is significant if the Project will significantly impair or physically interfere with implementation of an adopted emergency response or evacuation plan.

In any populated area, safely undertaking large-scale evacuations may take several hours or more and require moving people long distances to designated areas. Further, evacuations are fluid and timeframes may vary widely depending on numerous factors, including, among other things, the number of vehicles evacuating, the road capacity to accommodate those vehicles, residents' awareness and preparedness, evacuation messaging and direction, and on-site law enforcement control. The "Best Practices for Analyzing and Mitigating Wildfire Impacts of Development Projects Under the California Environmental Quality Act"[21] guidance from the California Office of the Attorney General suggests that jurisdictions set benchmarks of significance based on past successful evacuations or on those from communities in similar situations.

A recent study titled "Review of California Wildfire Evacuation from 2017 to 2019[22]" provides more insights on the topic. This research involved interviews with 553 individuals (297 evacuees affected by various fires) including the Creek Fire, Rye Fire, Skirball Fire, and Thomas Fire. The study aimed to understand the decision-making processes of these individuals during the fires, such as whether to evacuate or stay, when to leave, the paths taken, chosen shelters, destinations, and modes of transportation. According to this research, the time it took for evacuations ranged from under 30 minutes to over 10 hours. From this dataset[23], the average evacuation time for the Creek Fire was found to be 3 hours and 40 minutes, involving 115,000 people[24]. For the Thomas Fire, the average time was 4 hours and 25 minutes, impacting 104,607 individuals.

California fire and law enforcement agencies have integrated training, experience, and technology to assist in successful evacuations, which focus on moving persons at risk to safer areas before a wildfire encroaches on a populated area.. Timeframes for moving people vary by site specifics, population, road capacities and other factors and there is no one threshold that would be appropriate to all locations. There are no established thresholds for evacuation times for this Project or at the time of this plan's preparation, for any California community, to the knowledge of the authors. This is primarily because every location and fire scenario are unique. While it may take one community 20 minutes to evacuate safely, it is not a valid assumption to consider a 3-hour evacuation for another community as unsafe. The 3-hour evacuation can be very safe while the 20-minute evacuation may be unsafe due to the conditions and exposures along the evacuation routes.

Notwithstanding evacuation challenges and variables, City/County in safely managing both mass and targeted evacuations to great success, for example the Glass Fire resulted in an evacuation of nearly 70,000 individuals[25] and zero fatalities. It should be noted that other variables can impact the number of fatalities during an evacuation. For instance, some individuals may choose to stay behind to defend

[21] https://oag.ca.gov/system/files/attachments/press-docs/2022.10.10%20-%20Wildfire%20Guidance.pdf
[22] Wong, S. D, Broader, J. C, & Shaheen, S. A. (2020). Review of California Wildfire Evacuations from 2017 to 2019. UC Office of the President: University of California Institute of Transportation Studies. http://dx.doi.org/10.7922/G29G5K2R Retrieved from https://escholarship.org/uc/item/5w85z07g, https://escholarship.org/uc/item/5w85z07g
[23] 2018 Carr Wildfire Evacuation Survey Data | Zenodo 2018 Carr Wildfire Evacuation Survey Data | Zenodo
[24] https://abc7.com/sylmar-brush-fire-creek-kagel-canyon/2740550/
[25] https://www.abc10.com/article/news/local/wildfire/glass-fire-contained/103-f1664f9a-5904-4d0e-a44f-a3bef942d406https://www.abc10.com/article/news/local/wildfire/glass-fire-contained/103-f1664f9a-5904-4d0e-a44f-a3bef942d406 and https://www.nbcbayarea.com/news/local/north-bay-glass-fire/2372445/

their property or adopt a wait-and-see approach[26]. Such decisions could delay their evacuation to a point where it becomes too late to leave safely[27].

Technological advancements and improved evacuation strategies learned from prior wildfire evacuation events have resulted in a system that is many times more capable of managing evacuations. With the technology in use today, evacuations are more strategic and surgical than in the past, evacuating smaller areas at highest risk and phasing evacuation traffic so that it flows more evenly and minimizes the surges that may slow an evacuation. Mass evacuation scenarios where large populations are all directed to leave simultaneously, resulting in traffic delays, are thereby avoided, and those populations most at risk are able to safely evacuate. While mass evacuation scenarios are avoided with the technology in use today, the evacuation simulations conducted in this report are based on mass evacuation scenarios to provide a worst-case scenario, as described previously.

As indicated previously, the evacuation simulations conducted herein represent mass evacuations in the project vicinity to provide worst-case scenarios. In a probable evacuation scenario, individuals in the existing surrounding land uses would have the opportunity to evacuate before the users of the Project even reach their vehicles in the parking structures, thereby giving priority to the existing land uses. The Incident Commander would direct a focused evacuation of zones situated near the wild urban interface, which are at higher risk. Areas that are not in immediate danger would likely not be provided an evacuation notice initially and may be instructed to remain in place to prioritize the evacuation of vehicles from areas under direct threat. This would result in phasing evacuation traffic so that it flows more evenly and minimizes the surges that may slow an evacuation. Therefore, evacuation flow would be able to be effectively managed and would not likely lead to mass evacuations, as simulated in this report.

UCB would also provide emergency managers the alternative option of recommending users temporarily seeking refuge on-site in fire-resistant buildings or within the wide, converted landscapes and hardscapes on the Project site that would not readily facilitate wildfire spread. This would provide emergency managers with a safer alternative to risking a late evacuation. By contrast, the examples of California evacuations that have included loss of life have been the result of residents who did not evacuate when directed, and then attempted a late evacuation with travel through long distances of exposed travel ways as wildfire was overtaking the area. These examples occurred in fire environments that were more aggressive and included less maintenance than would occur at the Project area.[28]

The Project would not cut off, block, or otherwise modify existing evacuation routes. It would, instead, implement certain parking, roadway and sidewalk improvements that would improve evacuation, as discussed under the "Evacuation Analysis and Results" section above. While the proposed Project incorporates several characteristics that would foster efficient and safe evacuation, these elements cannot be represented in the traffic evacuation model and are therefore not accounted for in the results. Further, the evacuation model does not account for the seasonal nature of the project; as indicated in the Background and Purpose section, most of the softball season transpires outside of fire season.

This information will be provided to emergency managers for use in pre-planning scenarios to better inform in the field decisions made pursuant to adopted Emergency Operations Plans. Emergency personnel who issue an evacuation order may take into account these time estimates in determining

[26] Preparing for wildfire evacuation and alternatives: Exploring influences on residents' intended evacuation behaviors and mitigations (https://doi.org/10.1016/j.ijdrr.2021.102177https://doi.org/10.1016/j.ijdrr.2021.102177) Table 2 indicates that the majority of the surveyed individuals strongly agree with the stay and defend statements.

[27] National Institute of Standards and Technology – Department of Commerce – WUI Fire Evacuation and Sheltering Consideration Assessment, Planning, and Execution (August 2023) – Evacuation Alternatives

[28] San Diego County Sheriff's Department, Captain Dave Brown during public testimony for the Harmony Grove Village South, Newland Sierra, Otay Ranch Villages 13 and 14 projects – various dates from 2017 to 2019.

when and where to issue evacuation orders. In a real evacuation scenario, emergency managers may use alternative actions/options to further expedite evacuation. Such actions may include providing additional lead time in issuing evacuation orders, providing alternative signal control at downstream intersections, utilizing additional off-site routes or directing traffic to roadways with additional capacity, implementing contra-flow lanes, issuing "shelter-in-place" orders when determined to be safer than evacuation, or considering the possibility of a delayed evacuation where parts of the population could be directed to remain on-site until the fire burns out in the sparse fuels around the evacuation route. These options require "in the field" determinations of when evacuations are needed and how they are phased to maximize efficiency.

Limitations

CRA has presented a conservative analysis simulating evacuation during an extreme wildfire event. However, as discussed above, wildfires are variable events. The underlying planning principle for fire preparedness, given the dynamic nature of a fire, is to demonstrate the availability of multiple route alternatives and response strategies to permit emergency professionals to manage their response according to the specific circumstances. The Project area provides ample route and response alternatives that were not considered in this model. Emergency responders will coordinate the safest possible evacuation based on the dynamic circumstances of the actual event, including the appropriate phasing of the evacuation, and utilization of the most appropriate ingress and egress routes for area residents and emergency responders.

The breadth of route alternatives and response strategies available to emergency professionals to manage a potential fire in the City/County cannot and should not be evaluated using this evacuation analysis alone. A comprehensive view of Project fire safety is gained by understanding this memorandum, the relevant plans (see reference section) along with the standard protocols and "in-the-field" decision making of emergency responders as detailed in the County, City, and UCB Emergency Operations Plans.

This travel time analysis presents a reasonable vehicle travel time estimate based on professional judgment made by CRA, Sherwood/Carol Rice, and review of previous evacuation efforts. Changing any number of these assumptions can lengthen or shorten the average vehicle travel time.

For instance, a situation could arise in which professionals *may* choose to utilize additional roadways for evacuation not utilized in the analyses and *may also* choose to guide vehicle trips to more or different route permutations relative to what has been modeled in this analysis. A phased evacuation is also likely to be implemented, which improves the orderly flow of traffic in an evacuation scenario.

The net result of changing the variables selected could yield an average evacuation travel time shorter or longer than the results detailed in the analysis. Many factors can shorten or lengthen the vehicle time from the results shown herein. For example:

1. Changing the possible evacuation routes selected would affect the results. For instance, utilizing roads for ingress and/or egress that are not utilized in this analysis could shorten vehicle travel times relative to the results shown herein.

2. Increasing or decreasing the number of path permutations and percentage of the population utilizing each route that leads out of the immediate area could shorten or lengthen vehicle travel time relative to the results shown herein.

3. Emergency professionals electing to reserve certain travel lanes for emergency vehicle ingress for periods of time could affect the travel time relative to the results shown herein.

4. Assuming evacuees utilize fewer or more vehicles to evacuate from their homes relative to the vehicle utilization rate selected in the analysis would shorten or lengthen vehicle travel time relative to the results shown herein.

5. Changing the mix of vehicle trips allocated to each evacuation route could shorten or lengthen vehicle travel time relative to the results shown herein.

6. Assuming different road condition adjustment factors could shorten or lengthen the vehicle travel time relative to the results shown herein.

7. Assuming fewer people are at home when the evacuation notice is given would reduce the number of vehicle trips and shorten vehicle travel time relative to the results shown herein. For instance, an evacuation during daytime hours could result in fewer outbound trips than assumed in this analysis.

8. Assuming some portion of vehicle trips are made in advance of the evacuation notice would reduce the number of vehicle trips relative to the results shown herein.

9. Assuming emergency professionals elect to implement contraflow on certain roadways to open up additional lanes for emergency evacuation egress could reduce the travel time results shown herein.

This evacuation time analysis is necessarily limited in scope given the numerous variables inherent in a wildfire and evacuation event.

Prepared by

Phuong Nguyen, PE
Senior Transportation Engineer
CR Associates

Attachment A

List of Applicable Documents from State and Local Agencies

1. City of Berkeley 2016 Emergency Operations Plan
2. City of Berkeley General Plan – Transportation Element
3. City of Berkeley 2019 Local Hazard Mitigation Plan
4. City of Berkeley Resilience Strategy
5. City of Berkeley Emergency Access and Evacuation Network
6. City of Berkeley 2023 Community Wildfire Protection Plan
7. University of California, Berkeley 2022 Emergency Operation Plan
8. Alameda County 2019 Emergency Operations Plan
9. Alameda County 2021 Local Hazard Mitigation Plan

Attachment B
Evacuating Vehicles Calculation

Average Vehicle Ownership Obtained from US Census

The higher vehicle ownership (1.86 was used in the analysis)

GEO_ID	1500000US060014227001
NAME	Block Group 1, Census Tract 4227, Alameda County, California
Total	214
Owner	87
Own_Zero	0
Own_OneV	33
Own_TwoV	33
Own_ThreeV	21
Own_FourV	0
Own_FiveP	0
Renter	127
Rent_Zero	32
Rent_OneV	75
Rent_TwoV	20
Rent_ThreeV	0
Rent_FourV	0
Rent_FiveP	0
Owner - Vehicle Ownership	
Households	87
Vehicles	162
Avg Vehicle Own	1.86
Renter - Vehicle Ownership	
Households	127
Vehicles	147
Avg Vehicle Rent	1.16
Average Vehicle Ownership	
Households	214
Vehicles	309
Avg Vehicle Total	1.44

Project Trip Generation (Average Event)

Vehicle Type	Daily No. of Persons	Non-Vehicle Travel	Vehicle Travel	AVO[1]	Daily No. of Vehicles	Daily Vehicle Trips
Existing[2,3]						
UCB Student Athletes[4]	*30*	*28*	*2*	*1.0*	*2*	*4*
Visiting Student Athletes[5]	*30*	*0*	*30*	*30.0*	*1*	*2*
UCB Staff[6]	*27*	*15*	*12*	*1.0*	*12*	*24*
Visiting Staff[5]	*5*	*0*	*5*	*5.0*	*0*	*0*
Average Spectators[7]	*500*	*10*	*490*	*3.1*	*158*	*316*
Total Existing Users	*592*					*346*
				Proposed Project Total	***173***	***346***
Proposed Project[2,3]						
UCB Student Athletes[4]	*30*	*28*	*2*	*1.0*	*2*	*4*
Visiting Student Athletes[5]	*30*	*0*	*30*	*30.0*	*1*	*2*
UCB Staff[6]	*27*	*15*	*12*	*1.0*	*12*	*24*
Visiting Staff[5]	*5*	*0*	*5*	*5.0*	*0*	*0*
Average Spectators[7]	*1,000*	*20*	*980*	*3.1*	*316*	*632*
Total Proposed Project Users	*1,092*					*662*
				Proposed Project Total	***331***	***662***
Proposed Project Net						
UCB Student Athletes[4]	*0*	*0*	*0*	*0*	*0*	*0*
Visiting Student Athletes[5]	*0*	*0*	*0*	*0*	*0*	*0*
UCB Staff[6]	*0*	*0*	*0*	*0*	*0*	*0*
Visiting Staff[5]	*0*	*0*	*0*	*0*	*0*	*0*
Average Spectators[7]	*500*	*10*	*490*	*3.1*	*158*	*316*
Total Proposed Project Net Users	*500*					*316*
Project Net Total (Proposed Project - Existing)					**158**	**316**

Notes:

[1] Total vehicles based on an Average Vehicle Occupancy (AVO).

[2] While the Levine-Fricke Softball Field would accommodate an increase in athletics users, it would not increase the UCB student, faculty and staff population.

[3] Trip Generation estimates and data based on information provided by UC Berkeley for the typical number of users during standard use of the facilities.

[4] Approximately 5% of UCB students (athletes) drive alone (AVO = 1.0). UC Berkeley 2019 Transportation Survey data, reflecting only the population that commutes; summarized by Fehr & Peers, 2020 within the UC Berkeley 2021 LRDP and Housing Projects #1 and #2 DEIR, 2021

[5] Visiting student athletes and staff would be expected to arrive to the site by passenger bus. One 56-person passenger bus was assumed.

[6] Approximately 44% of UCB employees drive alone (AVO = 1.0). UC Berkeley 2019 Transportation Survey data, reflecting only the population that commutes; summarized by Fehr & Peers, 2020 within the UC Berkeley 2021 LRDP and Housing Projects #1 and #2 DEIR, 2021. Includes all gameday staff such as grounds crews, audio/visual staff, television crew, etc.

[7] Approximately 98% of spectators drive, with AVO of 3.1. This is based on trip data gathered during a travel survey conducted during a UC Berkeley softball game vs Stanford University. The survey was conducted by National Data & Surveying Services, on Saturday, April 16, 2022.

Project Trip Generation (Max Event)

Vehicle Type	Daily No. of Persons	Non-Vehicle Travel	Vehicle Travel	AVO[1]	Daily No. of Vehicles	Daily Vehicle Trips
Existing[2,3]						
UCB Student Athletes[4]	*30*	*28*	*2*	*1.0*	*2*	*4*
Visiting Student Athletes[5]	*30*	*0*	*30*	*30.0*	*1*	*2*
UCB Staff[6]	*27*	*15*	*12*	*1.0*	*12*	*24*
Visiting Staff[5]	*5*	*0*	*5*	*5.0*	*0*	*0*
Maximum Spectators[7]	*1,340*	*27*	*1,313*	*3.1*	*424*	*848*
Total Existing Users	*1,432*					*878*
				Proposed Project Total	***439***	***878***
Proposed Project[2,3]						
UCB Student Athletes[4]	*30*	*28*	*2*	*1.0*	*2*	*4*
Visiting Student Athletes[5]	*30*	*0*	*30*	*30.0*	*1*	*2*
UCB Staff[6]	*27*	*15*	*12*	*1.0*	*12*	*24*
Visiting Staff[5]	*5*	*0*	*5*	*5.0*	*0*	*0*
Maximum Spectators[7]	*1,511*	*30*	*1,481*	*3.1*	*478*	*956*
Total Proposed Project Users	*1,603*					*986*
				Proposed Project Total	***493***	***986***
Proposed Project Net						
UCB Student Athletes[4]	*0*	*0*	*0*	*0*	*0*	*0*
Visiting Student Athletes[5]	*0*	*0*	*0*	*0*	*0*	*0*
UCB Staff[6]	*0*	*0*	*0*	*0*	*0*	*0*
Visiting Staff[5]	*0*	*0*	*0*	*0*	*0*	*0*
Maximum Spectators[7]	*171*	*3*	*168*	*3.1*	*54*	*108*
Total Proposed Project Net Users	*171*					*108*
				Project Net Total (Proposed Project - Existing)	**54**	**108**

Notes:

1 Total vehicles based on an Average Vehicle Occupancy (AVO).

2 While the Levine-Fricke Softball Field would accommodate an increase in athletics users, it would not increase the UCB student, faculty and staff population.

3 Trip Generation estimates and data based on information provided by UC Berkeley for the maximum number of users during peak use of the facilities.

4 Approximately 5% of UCB students (athletes) drive alone (AVO = 1.0). UC Berkeley 2019 Transportation Survey data, reflecting only the population that commutes; summarized by Fehr & Peers, 2020 within the UC Berkeley 2021 LRDP and Housing Projects #1 and #2 DEIR, 2021

5 Visiting student athletes and staff would be expected to arrive to the site by passenger bus. One 56-person passenger bus was assumed.

6 Approximately 44% of UCB employees drive alone (AVO = 1.0). UC Berkeley 2019 Transportation Survey data, reflecting only the population that commutes; summarized by Fehr & Peers, 2020 within the UC Berkeley 2021 LRDP and Housing Projects #1 and #2 DEIR, 2021. Includes all gameday staff such as grounds crews, audio/visual staff, television crew, etc.

7 Approximately 98% of spectators drive, with AVO of 3.1. This is based on trip data gathered during a travel survey conducted during a UC Berkeley softball game vs Stanford University. The survey was conducted by National Data & Surveying Services, on Saturday, April 16, 2022.

Rugby Attendance Calculation

Cal Rugby 2022-23 Attendance	Game 1	Game 2	Game 3	Game 4	Game 5	Game 6	Game 7	Game 8	Game 9
VS.	Santa Clara	GCU	UCLA	Utah	Arizona	Army	St. Mary's (Playoff)	Cal Poly (Playoff)	BYU (Playoff)
Tickets Out	477	325	598	418	792	1280	1920	760	1439
Scans (Bold = highest)	419	195	486	417	709	923	**1734**	558	1204
Announced	477	278	572	418	792	923	1920	725	1439
Date	1.21.23	2.4.23	2.11.23	2.18.23	2.25.23	3.4.23	3.25.23	4.8.23	4.22.23
Cal Rugby 2021-22 Attendance	Game 1	Game 2	Game 3	Game 4	Game 5	Game 6	Game 7 PLAYOFF	GAME 8 PLAYOFFS	
VS.	Santa Clara	UCSB/ SAN DIEGO	CAL MARITIME	BYU	Central Washington	SMC	Central Washington	SMC	
Tickets Out	Covid Cancel	639	CANCELED	1074	694	1929	692	1845	
Scans (Bold = highest)	Covid Cancel	557	CANCELED	810	646	**1637**	560	1260	
Announced	0	639	0	1074	747	1929	692	1845	
Softball Player - On-Field	10								
Rugby on-Field	15								
Softball - Vehicles	15								
Rugby - Vehicles	25	Conservative Assumptions based on on-field player ratio.							
Average Vehicle Occupancy	3.1	Assumed the same as Softball							
Rugby Spectators - Vehicles	1800	Highest ticket scan was 1734, rounded up to 1800							
Rugby Spectators - Vehicles	581								
Rugby Total Vehicles - (Rounded Up)	610								

2019 Parking Study by National Data and Surveying Services

Location: Berkeley, CA | NDS Project No. 19-8460 | Dates 09/17/2019 - 09/18/2019

Typology : S = Surface, U = Underground, OS = On-Street, ST = Structure

Subarea: WB = West Berkeley, SS = Southside, DT = Downtown, CP = Campus Perimeter,

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Fourth Street Lot	Fourth Street Lot	293	58	61	30	78	78	27%	57	19%	
Fourth Street Lot	Fourth Street Lot	10	0	1	1	1	1	10%	1	8%	
Anna Head Court	Anna Head Court	16	16	16	16	14	16	100%	16	97%	
Anna Head Court	Anna Head Court	1	0	0	1	1	1	100%	1	50%	
BAMPFA Lot	BAMPFA Lot	19	12	10	9	11	12	63%	11	55%	
BAMPFA Lot	BAMPFA Lot	8	7	8	5	7	8	100%	7	84%	
BAMPFA Lot	BAMPFA Lot	2	0	1	0	1	1	50%	1	25%	
BAMPFA Lot	BAMPFA Lot	5	1	2	1	1	2	40%	1	25%	
Bancroft/Fulton West (Underground)	Bancroft/Fulton West (Underground)	30	30	25	29	26	30	100%	28	92%	
Bancroft/Fulton West (Underground)	Bancroft/Fulton West (Underground)	1	1	0	1	0	1	100%	1	50%	
Bancroft/Fulton West (Underground)	Bancroft/Fulton West (Underground)	1	1	1	1	1	1	100%	1	100%	
Bancroft/Fulton (Lot)	Bancroft/Fulton (Lot)	47	44	43	45	46	46	98%	45	95%	
Bancroft/Fulton (Lot)	Bancroft/Fulton (Lot)	2	1	1	0	0	1	50%	1	25%	
Bancroft Structure	Bancroft Structure	1	1	1	1	1	1	100%	1	100%	
Bancroft Structure	Bancroft Structure	4	1	2	1	1	2	50%	1	31%	
Bancroft Structure	Bancroft Structure	102	102	102	79	80	102	100%	91	89%	
Bancroft Structure	Bancroft Structure	20	20	20	17	16	20	100%	18	91%	
Bancroft Structure	Bancroft Structure	5	5	5	5	5	5	100%	5	100%	
Banway Lot	Banway Lot	1	0	0	0	0	0	0%	0	0%	
Banway Lot	Banway Lot	48	45	42	16	27	45	94%	33	68%	
Banway Lot	Banway Lot	1	0	0	0	0	0	0%	0	0%	
Banway Lot	Banway Lot	2	1	0	0	0	1	50%	0	13%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Barrows Annex Lot	Barrows Annex Lot	2	1	1	2	2	2	100%	2	75%	
Barrows Annex Lot	Barrows Annex Lot	2	1	1	2	2	2	100%	2	75%	
Barrows Lane	Barrows Lane	23	22	20	14	17	22	96%	18	79%	
Barrows Lane	Barrows Lane	2	2	0	2	2	2	100%	2	75%	
Barrows Lane	Barrows Lane	1	0	0	0	1	1	100%	0	25%	
Barrows Lane	Barrows Lane	7	7	7	7	6	7	100%	7	96%	
Barrows Lane	Barrows Lane	1	0	0	0	1	1	100%	0	25%	
Bechtel Drive	Bechtel Drive	10	0	2	1	0	2	20%	1	8%	
Boalt Garage	Boalt Garage	3	2	3	1	1	3	100%	2	58%	
Boalt Garage	Boalt Garage	3	2	2	0	1	2	67%	1	42%	
Boalt Garage	Boalt Garage	22	20	20	21	16	21	95%	19	88%	
Boalt Lot	Boalt Lot	114	103	111	77	94	111	97%	96	84%	
Boalt Lot	Boalt Lot	4	2	2	1	1	2	50%	2	38%	
Boalt Lot	Boalt Lot	1	0	1	0	1	1	100%	1	50%	
Boalt Lot	Boalt Lot	2	1	0	0	0	1	50%	0	13%	
Botanical Garden Lot	Botanical Garden Lot	3	0	1	0	0	1	33%	0	8%	
Botanical Garden Lot	Botanical Garden Lot	72	33	55	38	31	55	76%	39	55%	
Bowles Lot	Bowles Lot	58	57	54	16	15	57	98%	36	61%	
Bowles Lot	Bowles Lot	2	0	0	1	1	1	50%	1	25%	
Carleton Lot	Carleton Lot	11					11	100%	11	100%	Assumed at capacity
Carleton Lot	Carleton Lot	1					1	100%	1	100%	Assumed at capacity
Carleton Lot	Carleton Lot	2					1	50%	1	50%	Assumed at capacity
Clark Kerr - Building 4	Clark Kerr - Building 4	8	0	0	0	1	1	13%	0	3%	
Clark Kerr - Building 4	Clark Kerr - Building 4	4	0	0	0	0	0	0%	0	0%	
Clark Kerr - Building 4	Clark Kerr - Building 4	1	0	0	0	0	0	0%	0	0%	
Clark Kerr - Building 19	Clark Kerr - Building 19	4	2	2	1	1	2	50%	2	38%	
Clark Kerr - Building 19	Clark Kerr - Building 19	1	0	0	0	0	0	0%	0	0%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Clark Kerr - Building 20	Clark Kerr - Building 20	24	16	15	11	13	16	67%	14	57%	
Clark Kerr - Building 20	Clark Kerr - Building 20	1	1	1	0	0	1	100%	1	50%	
Clark Kerr - Golden Bear Lot	Clark Kerr - Golden Bear Lot	6	1	1	0	2	2	33%	1	17%	
Clark Kerr - Golden Bear Lot	Clark Kerr - Golden Bear Lot	2	0	0	0	0	0	0%	0	0%	
Clark Kerr - Golden Bear Lot	Clark Kerr - Golden Bear Lot	16	0	3	0	0	3	19%	1	5%	
Clark Kerr - Horseshoe Lot	Clark Kerr - Horseshoe Lot	9	1	5	4	3	5	56%	3	36%	
Clark Kerr - Horseshoe Lot	Clark Kerr - Horseshoe Lot	3	1	1	0	0	1	33%	1	17%	
Clark Kerr - Horseshoe Lot	Clark Kerr - Horseshoe Lot	1	0	0	0	0	0	0%	0	0%	
Clark Kerr - Lower Court Street	Clark Kerr - Lower Court Street	2	0	1	0	0	1	50%	0	13%	
Clark Kerr - Lower Court Street	Clark Kerr - Lower Court Street	1	0	0	0	0	0	0%	0	0%	
Clark Kerr - Northwest Lot	Clark Kerr - Northwest Lot	46	19	20	17	20	20	43%	19	41%	
Clark Kerr - Northwest Lot	Clark Kerr - Northwest Lot	2	0	0	0	0	0	0%	0	0%	
Clark Kerr - Northwest Lot	Clark Kerr - Northwest Lot	12	6	6	6	3	6	50%	5	44%	
Clark Kerr - North Street	Clark Kerr - North Street	7	4	3	2	3	4	57%	3	43%	
Clark Kerr - Southwest Lot (Lower)	Clark Kerr - Southwest Lot (Lower)	63	29	29	25	25	29	46%	27	43%	
Clark Kerr - Southwest Lot (Lower)	Clark Kerr - Southwest Lot (Lower)	4	0	0	0	0	0	0%	0	0%	
Clark Kerr - Southwest Lot (Lower)	Clark Kerr - Southwest Lot (Lower)	3	1	0	1	0	1	33%	1	17%	
Clark Kerr - Southwest Lot (Lower)	Clark Kerr - Southwest Lot (Lower)	2	1	1	1	0	1	50%	1	38%	
Clark Kerr - Southwest Lot (Upper)	Clark Kerr - Southwest Lot (Upper)	11	3	3	3	3	3	27%	3	27%	
Clark Kerr - Southwest Lot (Upper)	Clark Kerr - Southwest Lot (Upper)	60	7	6	8	7	8	13%	7	12%	
Clark Kerr - Southwest Lot (Upper)	Clark Kerr - Southwest Lot (Upper)	20	2	3	1	2	3	15%	2	10%	
Clark Kerr - Southwest Lot (Upper)	Clark Kerr - Southwest Lot (Upper)	2	0	0	0	0	0	0%	0	0%	
Clark Kerr - Sports Lane	Clark Kerr - Sports Lane	8	7	5	3	4	7	88%	5	59%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Clark Kerr - Sports Lane	Clark Kerr - Sports Lane	1	0	0	0	0	0	0%	0	0%	
Clark Kerr - Upper Court Street	Clark Kerr - Upper Court Street	1	0	0	0	0	0	0%	0	0%	
College Lot	College Lot	2	2	1	2	0	2	100%	1	63%	
College Lot	College Lot	3	3	3	3	1	3	100%	3	83%	
College Lot	College Lot	1	1	1	0	1	1	100%	1	75%	
College Lot	College Lot	6	0	0	6	5	6	100%	3	46%	
Donner Lot	Donner Lot	14	9	7	8	5	9	64%	7	52%	
Dwinelle Annex	Dwinelle Annex	1	1	0	1	1	1	100%	1	75%	
Dwinelle Annex	Dwinelle Annex	1	1	0	0	1	1	100%	1	50%	
Dwinelle Annex	Dwinelle Annex	2	0	0	0	1	1	50%	0	13%	
Dwinelle Annex	Dwinelle Annex	4	1	2	1	3	3	75%	2	44%	
Dwinelle Annex	Dwinelle Annex	5	4	4	5	4	5	100%	4	85%	
Dwinelle Annex	Dwinelle Annex	1	1	1	0	1	1	100%	1	75%	
Dwinelle Lot	Dwinelle Lot	4	2	3	1	2	3	75%	2	50%	
Dwinelle Lot	Dwinelle Lot	3	1	3	2	2	3	100%	2	67%	
Dwinelle Lot	Dwinelle Lot	75	64	73	43	70	73	97%	63	83%	
Dwight Way Lot	Dwight Way Lot	4	4	4	2	0	4	100%	3	63%	
Dwight Way Lot	Dwight Way Lot	1	0	0	0	0	0	0%	0	0%	
Dwight Way Lot	Dwight Way Lot	5	5	5	3	3	5	100%	4	80%	
East Lot	East Lot	54	4	5	5	4	5	9%	5	8%	
Ellsworth Structure	Ellsworth Structure	3	3	2	1	2	3	100%	2	67%	
Ellsworth Structure	Ellsworth Structure	12	12	12	12	12	12	100%	12	100%	
Ellsworth Structure	Ellsworth Structure	4	3	1	1	3	3	75%	2	50%	
Ellsworth Structure	Ellsworth Structure	1	0	0	0	0	0	0%	0	0%	
Ellsworth Structure	Ellsworth Structure	20	20	18	10	15	20	100%	16	79%	
Ellsworth Structure	Ellsworth Structure	50	35	15	45	29	45	90%	31	62%	
Ellsworth Structure	Ellsworth Structure	160	157	153	156	158	158	99%	156	98%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Epworth West Lot	Epworth West Lot	8	5	6	7	8	8	100%	7	81%	
Epworth West Lot	Epworth West Lot	3	0	3	1	2	3	100%	2	50%	
Eshleman Road	Eshleman Road	1	1	1	0	1	1	100%	1	75%	
Eshleman Road	Eshleman Road	12	10	12	10	10	12	100%	11	88%	
Extension Lot	Extension Lot	52	47	48	45	51	51	98%	48	92%	
Extension Lot	Extension Lot	3	0	0	0	0	0	0%	0	0%	
Extension Lot	Extension Lot	8	4	2	1	2	4	50%	2	28%	
Faculty Club Lane	Faculty Club Lane	1	1	0	1	1	1	100%	1	75%	
Faculty Club Lane	Faculty Club Lane	2	1	1	1	1	1	50%	1	50%	
Faculty Club Lane	Faculty Club Lane	3	1	1	0	1	1	33%	1	25%	
Foothill Lane	Foothill Lane	14	12	14	14	14	14	100%	14	96%	
Foothill Lane	Foothill Lane	208	141	189	200	208	208	100%	185	89%	
Foothill Lane	Foothill Lane	2	2	2	2	2	2	100%	2	100%	
Foothill Lane	Foothill Lane	4	0	0	0	0	0	0%	0	0%	
Frank Schlessinger Way	Frank Schlessinger Way	1	1	1	1	1	1	100%	1	100%	
Frank Schlessinger Way	Frank Schlessinger Way	8	2	4	5	4	5	63%	4	47%	
Frank Schlessinger Way	Frank Schlessinger Way	3	1	1	2	0	2	67%	1	33%	
Frank Schlessinger Way	Frank Schlessinger Way	78	50	66	31	50	66	85%	49	63%	
Frank Schlessinger Way	Frank Schlessinger Way	6	1	2	1	3	3	50%	2	29%	
Genetics Structure - Lower	Genetics Structure -Lower	6	2	1	0	2	2	33%	1	21%	
Genetics Structure - Lower	Genetics Structure -Lower	1	1	0	1	1	1	100%	1	75%	
Genetics Structure - Lower	Genetics Structure -Lower	7	3	7	0	3	7	100%	3	46%	
Genetics Structure - Lower	Genetics Structure -Lower	1	1	1	0	1	1	100%	1	75%	
Genetics Structure - Lower	Genetics Structure -Lower	1	0	1	0	0	1	100%	0	25%	
Genetics Structure - Lower	Genetics Structure -Lower	2	1	1	0	0	1	50%	1	25%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Genetics Structure - Lower	Genetics Structure -Lower	2	2	2	2	2	2	100%	2	100%	
Genetics Structure - Lower	Genetics Structure -Lower	4	3	2	0	1	3	75%	2	38%	
Genetics Structure - Lower	Genetics Structure -Lower	1	1	0	1	0	1	100%	1	50%	
Genetics Structure - Lower	Genetics Structure -Lower	95	82	73	55	63	82	86%	68	72%	
Genetics Structure - Lower	Genetics Structure -Lower	1	1	0	0	1	1	100%	1	50%	
Genetics Structure - Upper	Genetics Structure -Upper	4	2	2	1	2	2	50%	2	44%	
Genetics Structure - Upper	Genetics Structure -Upper	160	157	155	145	152	157	98%	152	95%	
Genetics Structure - Upper	Genetics Structure -Upper	5	5	5	5	5	5	100%	5	100%	
Genetics Structure - Upper	Genetics Structure -Upper	4	4	4	4	4	4	100%	4	100%	
Genetics Structure - Upper	Genetics Structure -Upper	5	5	5	5	5	5	100%	5	100%	
Genetics Structure - Upper	Genetics Structure -Upper	6	6	2	1	3	6	100%	3	50%	
Gridiron Way	Gridiron Way	20	0	2	5	5	5	25%	3	15%	
Hass Pavillion Lot	Hass Pavillion Lot	7	5	7	5	6	7	100%	6	82%	
Hass Pavillion Lot	Hass Pavillion Lot	4	2	3	3	4	4	100%	3	75%	
Hearst Gym	Hearst Gym	3	3	3	0	1	3	100%	2	58%	
Hearst Gym	Hearst Gym	1	0	1	0	1	1	100%	1	50%	
Hearst Gym	Hearst Gym	1	0	1	1	0	1	100%	1	50%	
Hearst Gym	Hearst Gym	6	4	3	2	4	4	67%	3	54%	
Haste Channing Garage	Haste Channing Garage	39	NA	NA	NA	NA	NA	#VALUE!	NA	#VALUE!	Gated garage. No counts completed
Hearst / Oxford Lot	Hearst / Oxford Lot	38	38	38	38	38	38	100%	38	100%	
Hearst / Oxford Lot	Hearst / Oxford Lot	11	7	7	5	4	7	64%	6	52%	
Hildebrand Hall	Hildebrand Hall	2	2	1	2	2	2	100%	2	88%	
Hildebrand Hall	Hildebrand Hall	1	1	1	1	1	1	100%	1	100%	
Hildebrand Hall	Hildebrand Hall	6	6	6	6	5	6	100%	6	96%	
Hildebrand Hall	Hildebrand Hall	4	3	3	2	4	4	100%	3	75%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Hill Terrace 1	Hill Terrace 1	45	0	0	0	0	0	0%	0	0%	
Hill Terrace 2	Hill Terrace 2	55	0	0	0	0	0	0%	0	0%	
Hill Terrace 3	Hill Terrace 3	53	0	2	0	2	2	4%	1	2%	
Lawrence Hall of Science Circle	Lawrence Hall of Science Circle	10	2	2	2	1	2	20%	2	18%	
Lawrence Hall of Science Circle	Lawrence Hall of Science Circle	5	0	0	0	0	0	0%	0	0%	
Lawrence Hall of Science Staff Lot	Lawrence Hall of Science Staff Lot	6	4	5	4	5	5	83%	5	75%	
Lawrence Hall of Science Staff Lot	Lawrence Hall of Science Staff Lot	4	0	1	0	1	1	25%	1	13%	
Lawrence Hall of Science Staff Lot	Lawrence Hall of Science Staff Lot	71	37	47	41	46	47	66%	43	60%	
Lower Hearst Structure (Level 1)	Lower Hearst Structure	126	116	126	119	124	126	100%	121	96%	
Lower Hearst Structure (Level 1)	Lower Hearst Structure	6	3	2	4	5	5	83%	4	58%	
Lower Hearst Structure (Level 1)	Lower Hearst Structure	9	9	9	9	9	9	100%	9	100%	
Lower Hearst Structure (Level 1)	Lower Hearst Structure	13	4	4	0	1	4	31%	2	17%	
Lower Hearst Structure (Level 1)	Lower Hearst Structure	2	2	2	2	1	2	100%	2	88%	
Lower Hearst Structure (Level 1)	Lower Hearst Structure	25	18	20	6	14	20	80%	15	58%	
Lower Hearst Structure (Level 2)	Lower Hearst Structure	71	56	61	0	53	61	86%	43	60%	
Lower Hearst Structure (Level 2)	Lower Hearst Structure	92	92	90	0	92	92	100%	69	74%	
Lower Hearst Structure (Level 3)	Lower Hearst Structure	125	125	125	119	125	125	100%	124	99%	
Lower Hearst Structure (Level 3)	Lower Hearst Structure	50	41	40	49	39	49	98%	42	85%	
Lower Hearst Structure (Level 4)	Lower Hearst Structure	141	139	139	130	135	139	99%	136	96%	
Lower Hearst Structure (Level 4)	Lower Hearst Structure	4	4	4	4	4	4	100%	4	100%	
Lower Hearst Structure (Level 4)	Lower Hearst Structure	1	0	0	0	0	0	0%	0	0%	
Lower Hearst Structure (Level 4)	Lower Hearst Structure	60	56	54	50	44	56	93%	51	85%	
Lower Sproul Garage	Lower Sproul Garage	71	23	68	17	67	68	96%	44	62%	
Lower Sproul Garage	Lower Sproul Garage	4	3	4	4	3	4	100%	4	88%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Lower Sproul Garage	Lower Sproul Garage	8	2	4	1	4	4	50%	3	34%	
Manvillle Garage	Manvillle Garage	18	NA	NA	NA	NA	NA	#VALUE!	NA	#VALUE!	Gated garage. No counts completed
Moses Court	Moses Court	1	0	1	0	1	1	100%	1	50%	
Moses Court	Moses Court	1	0	0	1	0	1	100%	0	25%	
Moses Court	Moses Court	7	7	6	5	6	7	100%	6	86%	
MSRI Parking Only	MSRI Parking Only	12	9	11	11	12	12	100%	11	90%	
MSRI Parking Only	MSRI Parking Only	15	8	12	12	15	15	100%	12	78%	
Kroeber Lot	Kroeber Lot	3	2	2	0	0	2	67%	1	33%	
Kroeber Lot	Kroeber Lot	6	6	4	4	5	6	100%	5	79%	
Kroeber Lot	Kroeber Lot	5	5	5	5	4	5	100%	5	95%	
Kroeber Lot	Kroeber Lot	3	0	0	0	0	0	0%	0	0%	
Kroeber Lot	Kroeber Lot	2	0	1	1	0	1	50%	1	25%	
Mulford Hall Lot	Mulford Hall Lot	2	0	1	2	1	2	100%	1	50%	
Mulford Hall Lot	Mulford Hall Lot	2	1	0	0	1	1	50%	1	25%	
Mulford Hall Lot	Mulford Hall Lot	7	2	1	6	7	7	100%	4	57%	
Northwest Crescent	Northwest Crescent	11	11	10	11	11	11	100%	11	98%	
Northwest Crescent	Northwest Crescent	2	0	1	0	1	1	50%	1	25%	
Optometry Lane	Optometry Lane	1	1	1	0	1	1	100%	1	75%	
Optometry Lane	Optometry Lane	1	1	1	0	1	1	100%	1	75%	
Optometry Lane	Optometry Lane	7	6	7	6	6	7	100%	6	89%	
Optometry Lane	Optometry Lane	2	1	1	1	1	1	50%	1	50%	
Oxford Research Unit Lot	Oxford Research Unit Lot	17	7	10	13	13	13	76%	11	63%	
Oxford Research Unit Lot	Oxford Research Unit Lot	1	0	1	0	0	1	100%	0	25%	
Oxford Tract South Lot	Oxford Tract South Lot	5	5	3	4	2	5	100%	4	70%	
Oxford Tract South Lot	Oxford Tract South Lot	2	0	0	0	0	0	0%	0	0%	
Oxford Tract South Lot	Oxford Tract South Lot	1	1	1	1	1	1	100%	1	100%	
Oxford Tract South Lot	Oxford Tract South Lot	1	0	0	0	0	0	0%	0	0%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Oxford Tract South Lot	Oxford Tract South Lot	1	1	0	1	0	1	100%	1	50%	
Ridge Lot	Ridge Lot	21	21	21	20	21	21	100%	21	99%	
RSF Garage	RSF Garage	205	192	205	178	168	205	100%	186	91%	
RSF Garage	RSF Garage	7	2	2	1	3	3	43%	2	29%	
RSF Garage	RSF Garage	12	9	8	8	9	9	75%	9	71%	
RSF Garage	RSF Garage	10	3	2	8	2	8	80%	4	38%	
RSF Garage	RSF Garage	30	23	25	25	25	25	83%	25	82%	
Sather Lot	Sather Lot	7	3	5	5	6	6	86%	5	68%	
South Drive	South Drive	6	2	2	2	1	2	33%	2	29%	
South Drive	South Drive	5	1	0	3	1	3	60%	1	25%	
South Drive	South Drive	2	1	0	0	0	1	50%	0	13%	
South Drive	South Drive	2	1	0	2	0	2	100%	1	38%	
South Drive	South Drive	7	3	3	5	3	5	71%	4	50%	
South Drive	South Drive	1	1	1	1	1	1	100%	1	100%	
South Drive	South Drive	1	1	1	1	1	1	100%	1	100%	
South Drive	South Drive	1	1	1	1	1	1	100%	1	100%	
South Drive	South Drive	1	0	0	1	1	1	100%	1	50%	
South Drive	South Drive	3	0	1	2	1	2	67%	1	33%	
South Drive	South Drive	1	1	1	1	0	1	100%	1	75%	
South Drive	South Drive	1	1	0	0	0	1	100%	0	25%	
Southwest Crescent	Southwest Crescent	35	34	34	26	27	34	97%	30	86%	
Space Science Lab Access Rd	Space Science Lab Access Rd	25	3	9	4	6	9	36%	6	22%	
Space Sciences Lab - Lower Lot	Space Sciences Lab - Lower Lot	2	1	1	1	1	1	50%	1	50%	
Space Sciences Lab - Lower Lot	Space Sciences Lab - Lower Lot	1	1	1	1	1	1	100%	1	100%	
Space Sciences Lab - Lower Lot	Space Sciences Lab - Lower Lot	2	1	1	1	1	1	50%	1	50%	
Space Sciences Lab - Lower Lot	Space Sciences Lab - Lower Lot	27	7	21	7	12	21	78%	12	44%	
Space Sciences Lab - Lower Lot	Space Sciences Lab - Lower Lot	3	1	1	1	1	1	33%	1	33%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Space Sciences Lab - Upper Lot	Space Sciences Lab - Upper Lot	2	0	0	0	0	0	0%	0	0%	
Space Sciences Lab - Upper Lot	Space Sciences Lab - Upper Lot	2	2	2	2	1	2	100%	2	88%	
Space Sciences Lab - Upper Lot	Space Sciences Lab - Upper Lot	34	20	16	14	21	21	62%	18	52%	
Sproul Lot	Sproul Lot	2	2	2	1	1	2	100%	2	75%	
Sproul Lot	Sproul Lot	21	21	21	21	21	21	100%	21	100%	
Sproul Lot	Sproul Lot	2	1	1	1	0	1	50%	1	38%	
Sproul Lot	Sproul Lot	1	1	1	1	1	1	100%	1	100%	
Strawberry Canyon Lot	Strawberry Canyon Lot	12	9	5	12	4	12	100%	8	63%	
Tang Center	Tang Center	2	1	0	0	0	1	50%	0	13%	
Tang Center	Tang Center	2	1	0	0	0	1	50%	0	13%	
Tang Center	Tang Center	5	4	3	2	0	4	80%	2	45%	
Tang Center	Tang Center	1	1	1	1	0	1	100%	1	75%	
Underhill Structure (Level 1)	Underhill Structure	260	260	260	252	190	260	100%	241	93%	
Underhill Structure (Level 1)	Underhill Structure	4	0	2	2	0	2	50%	1	25%	
Underhill Structure (Level 1)	Underhill Structure	4	0	0	3	0	3	75%	1	19%	
Underhill Structure (Level 1)	Underhill Structure	3	2	2	3	2	3	100%	2	75%	
Underhill Structure (Level 2)	Underhill Structure	206	206	206	206	201	206	100%	205	99%	
Underhill Structure (Level 2)	Underhill Structure	12	2	4	2	4	4	33%	3	25%	
Underhill Structure (Level 2)	Underhill Structure	1	0	0	0	0	0	0%	0	0%	
Underhill Structure (Level 2)	Underhill Structure	2	1	1	1	0	1	50%	1	38%	
Underhill Structure (Level 3)	Underhill Structure	202	201	202	201	202	202	100%	202	100%	
Underhill Structure (Level 3)	Underhill Structure	3	0	0	0	0	0	0%	0	0%	
Underhill Structure (Level 3)	Underhill Structure	4	0	0	0	0	0	0%	0	0%	
Underhill Structure (Level 4)	Underhill Structure	265	198	265	176	265	265	100%	226	85%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Underhill Structure (Level 4)	Underhill Structure	2	0	0	0	0	0	0%	0	0%	
Underhill Structure (Level 4)	Underhill Structure	3	0	0	0	0	0	0%	0	0%	
UNEX Underground	UNEX Underground	143	141	143	143	143	143	100%	143	100%	
UNEX Underground	UNEX Underground	7	1	3	2	5	5	71%	3	39%	
UNEX Underground	UNEX Underground	18	7	12	9	11	12	67%	10	54%	
UNEX Underground	UNEX Underground	1	0	0	0	0	0	0%	0	0%	
UNEX Underground	UNEX Underground	30	0	21	0	30	30	100%	13	43%	
UNEX Surface Lot	UNEX Surface Lot	57	57	57	57	57	57	100%	57	100%	
UNEX Surface Lot	UNEX Surface Lot	6	3	6	6	4	6	100%	5	79%	
UNEX Surface Lot	UNEX Surface Lot	6	3	6	5	4	6	100%	5	75%	
UNEX Surface Lot	UNEX Surface Lot	3	1	3	0	2	3	100%	2	50%	
UNEX Surface Lot	UNEX Surface Lot	1	0	1	1	0	1	100%	1	50%	
UNEX Surface Lot	UNEX Surface Lot	10	0	0	0	0	0	0%	0	0%	
UNEX Surface Lot	UNEX Surface Lot	2	0	0	2	2	2	100%	1	50%	
Unit 1	Unit 1	31	29	30	31	30	31	100%	30	97%	
Unit 1	Unit 1	3	1	1	1	1	1	33%	1	33%	
Unit 2	Unit 2	18	17	18	18	15	18	100%	17	94%	
Unit 2	Unit 2	1	0	1	1	1	1	100%	1	75%	
University Drive	University Drive	10	4	4	5	3	5	50%	4	40%	
University Hall Well Lot	University Hall Well Lot	4	3	3	3	2	3	75%	3	69%	
University Hall Well Lot	University Hall Well Lot	1	1	0	1	1	1	100%	1	75%	
University Hall Well Lot	University Hall Well Lot	11	11	11	11	11	11	100%	11	100%	
University Hall Well Lot	University Hall Well Lot	1	0	0	1	1	1	100%	1	50%	
University Hall Well Lot	University Hall Well Lot	1	1	1	0	0	1	100%	1	50%	
University Hall West Lot	University Hall West Lot	2	1	1	1	1	1	50%	1	50%	
University Hall West Lot	University Hall West Lot	2	0	0	1	1	1	50%	1	25%	
University Hall West Lot	University Hall West Lot	2	0	0	1	1	1	50%	1	25%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
University Hall West Lot	University Hall West Lot	23	22	23	23	21	23	100%	22	97%	
Upper Hearst Structure (Level1)	Upper Hearst Structure	75	61	67	70	71	71	95%	67	90%	
Upper Hearst Structure (Level 2)	Upper Hearst Structure	102	102	98	100	99	102	100%	100	98%	Occupancy includes attendant parking, which is not included in inventory
Upper Hearst Structure (Level 3)	Upper Hearst Structure	76	75	70	76	74	76	100%	74	97%	Occupancy includes attendant parking, which is not included in inventory
Upper Hearst Structure (Level 4)	Upper Hearst Structure	79	51	75	67	72	75	95%	66	84%	
Vista Lot	Vista Lot	59	16	14	16	17	17	29%	16	27%	
Wellman Courtyard Lot	Wellman Courtyard Lot	34	10	10	9	1	10	29%	8	22%	Parking spaces not available due to construction
Wellman Courtyard Lot	Wellman Courtyard Lot	2	0	1	0	1	1	50%	1	25%	Parking spaces not available due to construction
Wellman Courtyard Lot	Wellman Courtyard Lot	4	0	0	0	0	0	0%	0	0%	Parking spaces not available due to construction
West Circle	West Circle	3	1	0	2	1	2	67%	1	33%	
West Circle	West Circle	7	7	7	6	7	7	100%	7	96%	
West Circle	West Circle	1	1	1	0	1	1	100%	1	75%	
Wickson Road	Wickson Road	14	7	10	10	11	11	79%	10	68%	
Wickson Road	Wickson Road	1	1	0	1	1	1	100%	1	75%	
Witter Lot	Witter Lot	6	2	1	0	0	2	33%	1	13%	
Witter Lot	Witter Lot	107	72	83	92	92	92	86%	85	79%	
Stadium Level 1	Stadium	10	7	4	3	5	7	70%	5	48%	
Stadium Level 1	Stadium	164	112	147	148	150	150	91%	139	85%	

Parking Facility	Parking Facility2	Inventory	Occupancy, Tues Morning	Occupancy, Tues Aft	Occupancy, Wed Morning	Occupancy, Wed Aft	Peak Occupancy	Peak Occupancy2	Avg Occupancy	Peak Occupancy3	Notes
Stadium Level 1	Stadium	12	6	7	5	8	8	67%	7	54%	
Stadium Level 1	Stadium	1	1	1	1	1	1	100%	1	100%	
Stadium Level 1	Stadium	9	6	6	6	5	6	67%	6	64%	
Stadium Level 1	Stadium	1	0	0	0	0	0	0%	0	0%	
Stadium Level 1	Stadium	10	0	0	1	0	1	10%	0	3%	
Stadium Level 1	Stadium	5	5	5	5	2	5	100%	4	85%	
Stadium Level 2	Stadium	213	96	116	114	123	123	58%	112	53%	
Stadium Level 2	Stadium	10	0	0	3	3	3	30%	2	15%	
Stadium Level 2	Stadium	4	0	0	0	0	0	0%	0	0%	

Existing and Cumulative On-Campus Parking Demand Assumption

Zone	Land Use	Source	Inventory	Occupancy Rate[29]	Max Evacuating Veh	Cumulative Residential DU or Parking Spaces	Cumulative Occupancy Rate[30]	Cumulative Max Evacuating Vehicles
C	Building 88	Aerial	47	0.41	19	47	0.45	21
C	Building 65	Aerial	13	0.41	5	13	0.45	6
C	Lot D	Aerial	96	0.41	39	96	0.45	43
C	Lot D Side Lot	Aerial	24	0.41	10	24	0.45	11
D	Building 90	Aerial	63	0.41	26	63	0.45	28
D	Building 55	Aerial	19	0.41	8	19	0.45	9
D	Building 63	Aerial	6	0.41	2	6	0.45	3
D	Former Bevatron Site	Aerial	17	0.41	7	17	0.45	8
E	Building 71	Aerial	38	0.41	16	38	0.45	17
F	LHS - Staff Lot	2022 Inventory	72	0.41	30	72	0.45	32
F	LHS - Vista Lot	2022 Inventory	59	0.41	24	59	0.45	27
F	LHS - Circle	2022 Inventory	8	0.41	3	8	0.45	4
F	Building 76	Aerial	61	0.41	25	61	0.45	27
F	Building 75	Aerial	23	0.41	9	23	0.45	10
F	Building 75A	Aerial	5	0.41	2	5	0.45	2
F	Building 69	Aerial	17	0.41	7	17	0.45	8
G	LHS - Terrace Level 1	2022 Inventory	45	0.41	18	45	0.45	20
G	LHS - Terrace Level 2	2022 Inventory	55	0.41	23	55	0.45	25
G	LHS - Terrace Level 3	2022 Inventory	53	0.41	22	53	0.45	24
G	LHS - East Lot	2022 Inventory	54	0.41	22	54	0.45	24
G	SSL - Lower Lot	2022 Inventory	42	0.41	17	42	0.45	19
G	SSL - Upper Lot	2022 Inventory	38	0.41	16	38	0.45	17

[29] Vehicle Ownership Rate or Average Occupancy Rate based on 2019 Parking Survey

[30] Assumed Occupancy Rate Under Cumulative with 20% growth

Zone	Land Use	Source	Inventory	Occupancy Rate[29]	Max Evacuating Veh	Cumulative Residential DU or Parking Spaces	Cumulative Occupancy Rate[30]	Cumulative Max Evacuating Vehicles
G	Building 74 & 84	Aerial	53	0.41	22	53	0.45	24
G	Strawberry Entrance	Aerial	36	0.41	15	36	0.45	16
G	Mathematical Sciences Research Institute	Aerial	7	0.41	3	7	0.45	3
H	Building 50	Aerial	33	0.41	14	33	0.45	15
H	Building 50A	Aerial	6	0.41	2	6	0.45	3
H	Building 54	Aerial	65	0.41	27	65	0.45	29
H	Building 70	Aerial	41	0.41	17	41	0.45	18
H	Building 70A	Aerial	23	0.41	9	23	0.45	10
H	Building 54 Upper Lot	Aerial	39	0.41	16	39	0.45	18
I	Building 80	Aerial	26	0.41	11	26	0.45	12
I	Building 2	Aerial	26	0.41	11	26	0.45	12
I	Building 47	Aerial	6	0.41	2	6	0.45	3
I	Building 46	Aerial	39	0.41	16	39	0.45	18
I	Building 26	Aerial	47	0.41	19	47	0.45	21
I	Building 7	Aerial	13	0.41	5	13	0.45	6
I	Building 53	Aerial	9	0.41	4	9	0.45	4
I	Building 27	Aerial	9	0.41	4	9	0.45	4
I	Building 52	Aerial	30	0.41	12	30	0.45	14
I	Building 16	Aerial	12	0.41	5	12	0.45	5
I	Building 48	Aerial	10	0.41	4	10	0.45	5
K	Building 31	Aerial	41	0.41	17	41	0.45	18
K	Building 62	Aerial	55	0.41	23	55	0.45	25
K	Building 66	Aerial	23	0.41	9	23	0.45	10
L	Botanical Garden Parking Lot	2022 Inventory	80	0.41	33	80	0.45	36
M	Botanical Garden	None - see lot	0	0.41	0	0	0.45	0
G	Tiden Park Golf Course	Aerial	250	1.00	250	250	1.00	250
A	Single Family Residential	Parcel Data	461	1.86	857	484	1.86	900
B	Single Family Residential	Parcel Data	171	1.86	318	180	1.86	335

Zone	Land Use	Source	Inventory	Occupancy Rate[29]	Max Evacuating Veh	Cumulative Residential DU or Parking Spaces	Cumulative Occupancy Rate[30]	Cumulative Max Evacuating Vehicles
Q	Single Family Residential	Parcel Data	606	1.86	1127	636	1.86	1183
P	Single Family Residential	Parcel Data	456	1.86	848	479	1.86	891
Q	Single Family Residential	Parcel Data	606	1.86	1127	636	1.86	1183
S	Single Family Residential	Parcel Data	119	1.86	221	125	1.86	233
J	Foothill Lane	2022 Inventory	229	0.50	115	229	0.55	126
J	Bowles Lot	2022 Inventory	55	0.49	27	200	0.54	108
J	Stadium Parking Garage	2019 Parking Study	439	0.35	154	439	0.39	171
N	Witter Parking Lot	Aerial	111	0.42	47	25	0	0
O	Strawberry Canyon Recreation	2019 Parking Study	12	0.50	6	12	0.55	7
Q	Lower Hearts Parking Structure	2022 Inventory	624	0.48	300	624	0.53	331
Q	Upper Hearst Structure	2022 Inventory	337	0.49	165	337	0.54	182
R	Bancroft Structure (CP-22)	2022 Inventory	130	0.50	65	451	0.55	248
R	Law Lot (CP-27)	2022 Inventory	121	0.50	61	330	0.55	182
S	Underhill Garage	2022 Inventory	1027	0.49	503	1027	0.54	555
S	Unit 1 Lot	2022 Inventory	33	0.48	16	33	0.53	17
S	Unit 2 Lot	2022 Inventory	20	0.50	10	20	0.55	11

Cumulative Development Tracking

No.	Project Name	Project Type	Existing Use	Proposed Use	Existing SF	Proposed SF	Existing Beds	Proposed Beds	Existing Parking	Proposed Parking	Change in Parking
CP2	Dwinelle Lot	New Development	Parking	Academic Life	0	144,000	0	0	96	0	-96
CP5	Architects & Engineers	Redevelopment	Academic Life, Parking	Campus Life	5,166	15,000	0	0	27	3	-24
CP8	Central Plant Expansion	Redevelopment e	Parking	Academic Life	0	21,000	0	0	7	0	-7
CP13	Donner Lab	Redevelopment	Academic Life, Parking	Academic Life	53,234	141,000	0	0	15	0	-15
CP15	Edwards Stadium	Redevelopment	Campus Life, Parking	Academic Life, Campus Life	59,326	281,000	0	0	63	2	-61
CP17	Haas Pavilion Addition	Redevelopment e	Parking	Campus Life	0	58,000	0	0	11	5	-6
CP18	Hearst Field Annex	Redevelopment	Academic Life, Parking	Academic Life	34,975	104,000	0	0	38	0	-38
CP20	Hesse/O'Brien	Redevelopment	Academic Life, Parking	Academic Life	82,660	245,000	0	0	12	4	-8
CP22	Anthropology and Art Practice- Bancroft	Redevelopment	Academic Life, Parking	Academic Life, Parking	156,800	459,000	0	0	148	631	483
CP25	Minor Hall Addition and Optometry Clinic Expansion	Redevelopment e	Academic Life	Academic Life	55,516	215,000	0	0	9	0	-9
CP27	Piedmont Site	Redevelopment e	Academic Life, Parking	Academic Life, Campus Life, Parking	55,042	415,500	0	0	121	330	209
CP31	Wellman Courtyard *	Redevelopment	Academic Life, Parking	Academic Life, Campus Life	788	33,300	0	0	40	0	-40
HW1	Bowles Lot	New Development	Parking	Parking, Campus Life	0	30,000	0	0	53	200	147
CK1	Clark Kerr – Central *	Redevelopment	Residential, Academic Life, Campus Life, Parking	Residential, Campus Life	59,688	349,000	111	1,550	16	1	-15
CK2	Clark Kerr – Hillside *	Redevelopment	Campus Life, Parking	Campus Life	19,704	40,000	0	0	42	4	-38
CK3	Clark Kerr – NW *	Redevelopment	Campus Life, Parking	Residential, Campus Life	1,757	53,000	0	235	86	7	-79
CK4	Clark Kerr – SE	Redevelopment	Residential, Campus Life, Parking	Residential, Campus Life	17,226	200,000	2	615	28	0	-28

CK5	Clark Kerr – SW *	Redevelopment	Residential, Academic Life, Parking	Residential, Campus Life, Parking	42,106	234,000	144	840	155	400	245
CE2	1995 University Avenue	Redevelopment	Academic Life, Parking	Residential, Academic Life, Parking	244,249	450,000	0	550	232	240	8
CE3	2000 Carleton Street	Redevelopment	Academic Life	Residential, Campus Life	256,563	257,000	0	330	14	3	-11
CE4	2111 Bancroft Way	Redevelopment	Academic Life, Parking	Academic Life	45,955	76,000	0	0	46	3	-43
CE5	Anna Head *	Redevelopment [e]	Academic Life, Campus Life, Parking	Academic Life, Campus Life, Parking	27,531	210,000	0	0	17	1	-16
CE6	Beverly Cleary	Redevelopment	Residential	Residential, Campus Life	58,355	176,000	236	540	39	0	-39
CE7	Channing Ellsworth	Redevelopment	Parking	Residential, Campus Life, Parking	61,884	713,000	0	2,980	200	600	400
CE8	Channing/Bowditch [g]	Redevelopment	Academic Life	Residential, Campus Life	44,531	100,000	0	285	8	0	-8
CE11	Fulton-Bancroft	Redevelopment	Academic Life, Parking	Residential, Campus Life	26,950	276,000	0	1,200	81	2	-79
CE12	Oxford Tract	Redevelopment	Academic Life, Parking	Residential, Campus Life, Parking	171,948	1,145,000	0	1,640	28	627	599
CE14	University Hall	Redevelopment	Academic Life, Parking	Academic Life, Parking	150,887	660,000	0	0	47	1,000	953
CE15	Housing Project #1 * [h]	Redevelopment	Academic Life, Campus Life	Residential, Campus Life, Parking	31,052	506,000	16	770	42	21	-21

Evacuation Data Summary

Evacuation Zone	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Baseline without Events																
Residential Units	461	171	0	0	0	0	0	0	0	0	0	0	456	1212	0	119
Average Vehicle Ownership																
Evacuating Vehicles from Residential @ 1.86 veh/ hh	858	319	0	0	0	0	0	0	0	0	0	0	849	2255	0	222
Public Parking Availability Nearby Project																
Number of Public Parking Spaces	0	0	180	105	38	245	633	207	227	723	119	80	0	961	251	1080
Peak Parking Demand Based on 2019 Parking Study by NDS for UCB	0	0	73	43	16	100	408	85	93	296	49	33	0	465	126	529
Available Remaining Spaces	0	0	107	62	22	145	225	122	134	427	70	47	0	496	125	551
Rugby - Max Capacity 1,800 spectators with a ratio of 31% based on softball survey = 610 vehicles (round up)	0	0								427	70	47				66
Total Evacuating Vehicles (Weekday)	858	319	73	43	16	100	408	85	93	723	119	80	849	2720	126	817
Hillside Only Scenario						100	408					80	849			
Total Evacuating Vehicles (Saturday) @ 88%	858	319	64	38	14	88	359	75	82	687	113	76	849	2664	111	754
Cumulative without Project																
Cumulative Residential Units	484	180	0	0	0	0	0	0	0	0	0	0	479	1272	0	125
Evacuating Vehicles from Residential @ 1.86 veh/ hh	901	335	0	0	0	0	0	0	0	0	0	0	891	2366	0	233
Cumulative Public Parking Inventory	0	0	180	105	38	245	633	207	227	868	119	80	0	961	781	1080
Cumulative Public Parking Demand	0	0	81	48	17	110	422	93	104	405	53	36	0	513	430	583
Rugby - Max Capacity 1,800 spectators with a ratio of 31% based on softball survey = 610 vehicles (round up)	0	0	0	0	0	0	0	0	0	427	70	47	0	0	0	66
Total Cumulative Evacuating Vehicles	901	335	81	48	17	110	422	93	104	832	123	83	891	2879	430	882
Total Cumulative Evacuating Vehicles (Saturday) @ 88%	901	335	71	42	15	97	371	82	92	783	117	79	891	2817	378	812

Prepared by National Data & Surveying Services

VOLUME

Centennial Dr E/O Stadium Rim Wy & by Witter Rugby Field

Day: Friday **City:** Berkeley

Date: 3/17/2023 **Project #:** CA23_080055_033

DAILY TOTALS							NB	SB	EB			Total
							0	0	2,279			4,241
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL
0:00	0	0	7	7	14		12:00	0	0	24	53	77
0:15	0	0	8	6	14		12:15	0	0	32	30	62
0:30	0	0	2	5	7		12:30	0	0	38	42	80
0:45	0	0	1	4	5		12:45	0	0	38	28	66
1:00	0	0	2	2	4		13:00	0	0	36	35	71
1:15	0	0	3	5	8		13:15	0	0	46	36	82
1:30	0	0	5	3	8		13:30	0	0	42	26	68
1:45	0	0	0	3	3		13:45	0	0	48	29	77
2:00	0	0	1	7	8		14:00	0	0	33	35	68
2:15	0	0	1	0	1		14:15	0	0	49	46	95
2:30	0	0	0	1	1		14:30	0	0	61	54	115
2:45	0	0	2	2	4		14:45	0	0	59	44	103
3:00	0	0	0	3	3		15:00	0	0	41	50	91
3:15	0	0	1	1	2		15:15	0	0	46	47	93
3:30	0	0	0	0			15:30	0	0	47	37	84
3:45	0	0	1	0	1		15:45	0	0	53	41	94
4:00	0	0	1	1	2		16:00	0	0	46	34	80
4:15	0	0	3	2	5		16:15	0	0	55	33	88
4:30	0	0	2	4	6		16:30	0	0	59	47	106
4:45	0	0	1	1	2		16:45	0	0	52	48	100
5:00	0	0	3	2	5		17:00	0	0	49	50	99
5:15	0	0	3	2	5		17:15	0	0	43	42	85
5:30	0	0	8	2	10		17:30	0	0	54	37	91
5:45	0	0	23	2	25		17:45	0	0	44	35	79
6:00	0	0	23	7	30		18:00	0	0	42	38	80
6:15	0	0	18	17	35		18:15	0	0	34	33	67
6:30	0	0	18	13	31		18:30	0	0	37	41	78
6:45	0	0	21	5	26		18:45	0	0	25	35	60
7:00	0	0	19	16	35		19:00	0	0	28	17	45
7:15	0	0	25	12	37		19:15	0	0	26	26	52
7:30	0	0	17	18	35		19:30	0	0	22	31	53
7:45	0	0	22	14	36		19:45	0	0	23	35	58
8:00	0	0	21	30	51		20:00	0	0	14	19	33
8:15	0	0	31	30	61		20:15	0	0	15	18	33
8:30	0	0	35	19	54		20:30	0	0	11	9	20
8:45	0	0	47	16	63		20:45	0	0	21	12	33
9:00	0	0	44	27	71		21:00	0	0	16	13	29
9:15	0	0	35	26	61		21:15	0	0	11	8	19
9:30	0	0	27	28	55		21:30	0	0	10	15	25
9:45	0	0	36	20	56		21:45	0	0	12	16	28
10:00	0	0	35	11	46		22:00	0	0	10	8	18

Prepared by National Data & Surveying Services

VOLUME

Centennial Dr E/O Stadium Rim Wy & by Witter Rugby Field

Day: Friday **City:** Berkeley

Date: 3/17/2023 **Project #:** CA23_080055_033

DAILY TOTALS												
			NB	SB			EB					Total
			0	0			2,279					4,241
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL
10:15	0	0	29	23	52		22:15	0	0	15	16	31
10:30	0	0	33	20	53		22:30	0	0	13	8	21
10:45	0	0	25	23	48		22:45	0	0	9	12	21
11:00	0	0	32	30	62		23:00	0	0	11	4	15
11:15	0	0	23	25	48		23:15	0	0	4	11	15
11:30	0	0	34	25	59		23:30	0	0	7	16	23
11:45	0	0	34	33	67		23:45	0	0	6	9	15

Prepared by National Data & Surveying Services

VOLUME

Centennial Dr E/O Stadium Rim Wy & by Witter Rugby Field

Day: Saturday **City:** Berkeley

Date: 3/18/2023 **Project #:** CA23_080055_033

DAILY TOTALS												Total
			NB	SB			EB	WB				
			0	0			2,009	1,742				3,751
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL
0:00	0	0	5	11	16		12:00	0	0	39	41	80
0:15	0	0	4	2	6		12:15	0	0	46	39	85
0:30	0	0	2	6	8		12:30	0	0	38	49	87
0:45	0	0	6	5	11		12:45	0	0	45	40	85
1:00	0	0	7	3	10		13:00	0	0	43	31	74
1:15	0	0	5	14	19		13:15	0	0	59	38	97
1:30	0	0	4	3	7		13:30	0	0	34	30	64
1:45	0	0	3	3	6		13:45	0	0	58	47	105
2:00	0	0	0	6	6		14:00	0	0	54	42	96
2:15	0	0	3	5	8		14:15	0	0	44	35	79
2:30	0	0	6	2	8		14:30	0	0	67	36	103
2:45	0	0	0	5	5		14:45	0	0	50	32	82
3:00	0	0	3	0	3		15:00	0	0	42	43	85
3:15	0	0	1	5	6		15:15	0	0	44	38	82
3:30	0	0	2	2	4		15:30	0	0	64	50	114
3:45	0	0	2	1	3		15:45	0	0	42	62	104
4:00	0	0	0	1	1		16:00	0	0	32	34	66
4:15	0	0	0	0			16:15	0	0	26	44	70
4:30	0	0	1	1	2		16:30	0	0	55	46	101
4:45	0	0	1	1	2		16:45	0	0	89	49	138
5:00	0	0	2	1	3		17:00	0	0	50	48	98
5:15	0	0	2	1	3		17:15	0	0	42	33	75
5:30	0	0	2	1	3		17:30	0	0	22	35	57
5:45	0	0	1	2	3		17:45	0	0	31	31	62
6:00	0	0	3	1	4		18:00	0	0	33	22	55
6:15	0	0	2	1	3		18:15	0	0	29	28	57
6:30	0	0	1	3	4		18:30	0	0	26	24	50
6:45	0	0	3	5	8		18:45	0	0	12	33	45
7:00	0	0	4	5	9		19:00	0	0	15	24	39
7:15	0	0	5	5	10		19:15	0	0	16	21	37
7:30	0	0	11	5	16		19:30	0	0	13	23	36
7:45	0	0	9	6	15		19:45	0	0	11	14	25
8:00	0	0	9	3	12		20:00	0	0	14	6	20
8:15	0	0	9	6	15		20:15	0	0	12	15	27
8:30	0	0	13	5	18		20:30	0	0	14	7	21
8:45	0	0	29	11	40		20:45	0	0	14	8	22
9:00	0	0	15	14	29		21:00	0	0	10	10	20
9:15	0	0	21	11	32		21:15	0	0	11	14	25
9:30	0	0	34	14	48		21:30	0	0	17	9	26
9:45	0	0	31	17	48		21:45	0	0	14	12	26
10:00	0	0	39	16	55		22:00	0	0	17	12	29

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VOLUME

Centennial Dr E/O Stadium Rim Wy & by Witter Rugby Field

Day: Saturday **City:** Berkeley

Date: 3/18/2023 **Project #:** CA23_080055_033

DAILY TOTALS			NB	SB		EB	WB			Total
			0	0		2,009	1,742			3,751
AM Period	**NB**	**SB**	**EB**	**WB**	**TOTAL**	**PM Period**	**NB**	**SB**	**EB**	**WB**	**TOTAL**
10:15	0	0	42	21	63	**22:15**	0	0	16	8	24
10:30	0	0	21	23	44	**22:30**	0	0	13	7	20
10:45	0	0	39	26	65	**22:45**	0	0	8	14	22
11:00	0	0	26	35	61	**23:00**	0	0	12	12	24
11:15	0	0	32	23	55	**23:15**	0	0	7	12	19
11:30	0	0	41	34	75	**23:30**	0	0	13	17	30
11:45	0	0	32	41	73	**23:45**	0	0	13	5	18

Friday ADT	**4,241**
Saturday ADT	3751
Weekend Parking Ratio	0.884461212

Attachment C
Evacuation Analysis Worksheets

Scenario/Gate	1	3	Existing - Average								Existing + Project - Average							
Zone Evacuation Time	Existing - Average	Existing + Project - Average	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:46:56	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56
B	1:18:24	1:18:24	B	2	199.495	B	19	4903.71	4704.215	1:18:24	B	2	199.495	B	19	4903.72	4704.225	1:18:24
C	0:35:09	0:35:09	C	3	124.205	C	20	2233.645	2109.44	0:35:09	C	3	124.205	C	20	2233.645	2109.44	0:35:09
D	0:45:30	0:45:30	D	4	131.585	D	21	2861.745	2730.16	0:45:30	D	4	131.585	D	21	2861.745	2730.16	0:45:30
E	0:43:09	0:43:09	E	5	178.75	E	22	2768.02	2589.27	0:43:09	E	5	178.75	E	22	2768.02	2589.27	0:43:09
F	0:55:54	0:55:54	F	6	169.69	F	23	3523.5	3353.81	0:55:54	F	6	169.69	F	23	3523.5	3353.81	0:55:54
G	1:21:57	1:26:51	G	7	164	G	24	5081.47	4917.47	1:21:57	G	7	164	G	24	5375.115	5211.115	1:26:51
H	0:40:22	0:40:22	H	8	117.665	H	25	2539.7	2422.035	0:40:22	H	8	117.665	H	25	2539.7	2422.035	0:40:22
I	0:50:59	0:50:59	I	9	116.175	I	26	3175.655	3059.48	0:50:59	I	9	116.175	I	26	3175.655	3059.48	0:50:59
J	1:20:24	1:27:33	J	10	106.89	J	27	4931.245	4824.355	1:20:24	J	10	106.89	J	27	5360.17	5253.28	1:27:33
K	0:58:18	1:01:36	K	11	238.245	K	28	3736.535	3498.29	0:58:18	K	11	238.245	K	28	3933.755	3695.51	1:01:36
L	0:42:50	0:42:50	L	12	171.055	L	29	2741.5	2570.445	0:42:50	L	12	171.055	L	29	2741.525	2570.47	0:42:50
M	0:55:18	0:55:34	M	13	233.265	M	30	3551.34	3318.075	0:55:18	P	13	233.265	M	30	3567.32	3334.055	0:55:34
N	2:08:39	2:08:40	N	14	159.055	N	31	7878.25	7719.195	2:08:39	Q	14	159.055	N	31	7879.36	7720.305	2:08:40
O	0:25:50	0:25:50	O	15	170.305	O	32	1720.24	1549.935	0:25:50	R	15	170.305	O	32	1720.24	1549.935	0:25:50
P	0:53:05	1:03:30	P	16	110.395	P	33	3295.27	3184.875	0:53:05	S	16	109.93	P	33	3920.025	3810.095	1:03:30

Scenario/Gate	2	4	Existing - Max								Existing + Project - Max							
Zone Evacuation Time	Existing - Max	Existing + Project - Max	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:46:56	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56
B	1:18:24	1:18:24	B	2	199.495	B	19	4903.6	4704.105	1:18:24	B	2	199.495	B	19	4903.6	4704.105	1:18:24
C	0:35:09	0:35:09	C	3	124.205	C	20	2233.645	2109.44	0:35:09	C	3	124.205	C	20	2233.645	2109.44	0:35:09
D	0:45:30	0:45:30	D	4	131.585	D	21	2861.745	2730.16	0:45:30	D	4	131.585	D	21	2861.745	2730.16	0:45:30
E	0:43:09	0:43:09	E	5	178.75	E	22	2768.02	2589.27	0:43:09	E	5	178.75	E	22	2768.02	2589.27	0:43:09
F	0:55:54	0:55:54	F	6	169.69	F	23	3523.5	3353.81	0:55:54	F	6	169.69	F	23	3523.5	3353.81	0:55:54
G	1:28:33	1:29:21	G	7	164	G	24	5476.68	5312.68	1:28:33	G	7	164	G	24	5524.545	5360.545	1:29:21
H	0:40:22	0:40:22	H	8	117.665	H	25	2539.7	2422.035	0:40:22	H	8	117.665	H	25	2539.7	2422.035	0:40:22
I	0:50:59	0:50:59	I	9	116.175	I	26	3175.655	3059.48	0:50:59	I	9	116.175	I	26	3175.655	3059.48	0:50:59
J	1:30:13	1:32:01	J	10	106.89	J	27	5520.19	5413.3	1:30:13	J	10	106.89	J	27	5627.44	5520.55	1:32:01
K	1:02:53	1:03:19	K	11	238.245	K	28	4011.465	3773.22	1:02:53	K	11	238.245	K	28	4037.335	3799.09	1:03:19
L	0:42:46	0:42:59	L	12	171.055	L	29	2737.41	2566.355	0:42:46	L	12	171.055	L	29	2749.765	2578.71	0:42:59
M	0:56:20	0:56:20	M	13	233.265	M	30	3613.235	3379.97	0:56:20	P	13	233.265	M	30	3613.51	3380.245	0:56:20
N	2:08:39	2:08:40	N	14	159.055	N	31	7878.35	7719.295	2:08:39	Q	14	159.055	N	31	7879.36	7720.305	2:08:40
O	0:25:50	0:25:50	O	15	170.305	O	32	1720.24	1549.935	0:25:50	R	15	170.305	O	32	1720.24	1549.935	0:25:50
P	1:08:02	1:10:12	P	16	109.84	P	33	4191.39	4081.55	1:08:02	S	16	109.78	P	33	4321.455	4211.675	1:10:12

Scenario/Gate	5	6	Existing - Average - SAT								Existing + Project - Average - SAT							
Zone Evacuation Time	Existing - Average - SAT	Existing + Project - Average - SAT	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:46:56	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56
B	1:13:26	1:13:26	B	2	199.495	B	19	4605.675	4406.18	1:13:26	B	2	199.495	B	19	4605.675	4406.18	1:13:26
C	0:32:28	0:32:28	C	3	126.365	C	20	2074.585	1948.22	0:32:28	C	3	126.365	C	20	2074.585	1948.22	0:32:28
D	0:40:57	0:40:57	D	4	135.095	D	21	2592.22	2457.125	0:40:57	D	4	135.095	D	21	2592.22	2457.125	0:40:57
E	0:38:30	0:38:30	E	5	188.095	E	22	2498.03	2309.935	0:38:30	E	5	188.095	E	22	2498.03	2309.935	0:38:30
F	0:50:02	0:50:02	F	6	171.04	F	23	3173.47	3002.43	0:50:02	F	6	171.04	F	23	3173.47	3002.43	0:50:02
G	1:19:34	1:22:15	G	7	164.42	G	24	4938.43	4774.01	1:19:34	G	7	164.42	G	24	5099.655	4935.235	1:22:15
H	0:37:10	0:37:10	H	8	119.2	H	25	2348.795	2229.595	0:37:10	H	8	119.2	H	25	2348.795	2229.595	0:37:10
I	0:46:34	0:46:34	I	9	117.375	I	26	2911.085	2793.71	0:46:34	I	9	117.375	I	26	2911.085	2793.71	0:46:34
J	1:19:21	1:22:37	J	10	106.96	J	27	4867.475	4760.515	1:19:21	J	10	106.96	J	27	5063.84	4956.88	1:22:37
K	0:57:39	0:59:49	K	11	238.62	K	28	3698.095	3459.475	0:57:39	K	11	238.62	K	28	3827.635	3589.015	0:59:49
L	0:41:01	0:41:08	L	12	171.64	L	29	2632.205	2460.565	0:41:01	L	12	171.64	L	29	2639.83	2468.19	0:41:08
M	0:55:46	0:55:46	M	13	233.265	M	30	3579.595	3346.33	0:55:46	P	13	233.265	M	30	3580.03	3346.765	0:55:47
N	2:06:51	2:06:51	N	14	159.075	N	31	7770.445	7611.37	2:06:51	Q	14	159.075	N	31	7770.445	7611.37	2:06:51
O	0:23:48	0:23:48	O	15	171.385	O	32	1599.17	1427.785	0:23:48	R	15	171.385	O	32	1599.17	1427.785	0:23:48
P	0:55:38	1:00:56	P	16	110.28	P	33	3448.095	3337.815	0:55:38	S	16	110.03	P	33	3765.595	3655.565	1:00:56

Scenario/Gate	7	8	Existing - Max - SAT								Existing + Project - Max - SAT							
Zone Evacuation Time	Existing - Max - SAT	Existing + Project - Max - SAT	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:46:56	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56	A	1	179.99	A	18	2995.895	2815.905	0:46:56
B	1:13:26	1:13:26	B	2	199.495	B	19	4605.675	4406.18	1:13:26	B	2	199.495	B	19	4605.675	4406.18	1:13:26
C	0:32:28	0:32:28	C	3	126.365	C	20	2074.585	1948.22	0:32:28	C	3	126.365	C	20	2074.585	1948.22	0:32:28
D	0:40:57	0:40:57	D	4	135.095	D	21	2592.22	2457.125	0:40:57	D	4	135.095	D	21	2592.22	2457.125	0:40:57
E	0:38:30	0:38:30	E	5	188.095	E	22	2498.03	2309.935	0:38:30	E	5	188.095	E	22	2498.03	2309.935	0:38:30
F	0:50:02	0:50:02	F	6	171.04	F	23	3173.47	3002.43	0:50:02	F	6	171.04	F	23	3173.47	3002.43	0:50:02
G	1:23:45	1:24:23	G	7	164.42	G	24	5189.23	5024.81	1:23:45	G	7	164.42	G	24	5227.46	5063.04	1:24:23
H	0:37:10	0:37:10	H	8	119.2	H	25	2348.795	2229.595	0:37:10	H	8	119.2	H	25	2348.795	2229.595	0:37:10
I	0:46:34	0:46:34	I	9	117.375	I	26	2911.085	2793.71	0:46:34	I	9	117.375	I	26	2911.085	2793.71	0:46:34
J	1:24:59	1:26:25	J	10	106.96	J	27	5206.265	5099.305	1:24:59	J	10	106.96	J	27	5291.465	5184.505	1:26:25
K	1:00:53	1:01:29	K	11	238.62	K	28	3891.25	3652.63	1:00:53	K	11	238.62	K	28	3927.95	3689.33	1:01:29
L	0:41:03	0:41:03	L	12	171.64	L	29	2634.975	2463.335	0:41:03	L	12	171.64	L	29	2635.03	2463.39	0:41:03
M	0:55:25	0:55:51	M	13	233.265	M	30	3558.515	3325.25	0:55:25	P	13	233.265	M	30	3584.105	3350.84	0:55:51
N	2:06:51	2:06:51	N	14	159.075	N	31	7770.445	7611.37	2:06:51	Q	14	159.075	N	31	7770.445	7611.37	2:06:51
O	0:23:48	0:23:48	O	15	171.385	O	32	1599.17	1427.785	0:23:48	R	15	171.385	O	32	1599.17	1427.785	0:23:48
P	1:05:16	1:07:19	P	16	109.9	P	33	4025.865	3915.965	1:05:16	S	16	109.845	P	33	4148.375	4038.53	1:07:19

Scenario/Gate	9	10	Cumulative - Average								Cumulative + Project - Average							
Zone Evacuation Time	Cumulative - Average	Cumulative + Project - Average	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:48:44	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44
B	1:42:31	1:42:31	B	2	197.955	B	19	6348.77	6150.815	1:42:31	B	2	197.955	B	19	6348.77	6150.815	1:42:31
C	0:46:43	0:46:43	C	3	122.685	C	20	2925.48	2802.795	0:46:43	C	3	122.685	C	20	2925.48	2802.795	0:46:43
D	1:12:18	1:12:18	D	4	128.79	D	21	4467.1	4338.31	1:12:18	D	4	128.79	D	21	4467.1	4338.31	1:12:18
E	1:04:26	1:04:26	E	5	174.905	E	22	4040.615	3865.71	1:04:26	E	5	174.905	E	22	4040.615	3865.71	1:04:26
F	1:25:54	1:25:54	F	6	168.79	F	23	5322.445	5153.655	1:25:54	F	6	168.79	F	23	5322.445	5153.655	1:25:54
G	1:30:02	1:35:36	G	7	163.865	G	24	5745.935	5582.07	1:33:02	G	7	163.865	G	24	5900.31	5736.445	1:35:36
H	0:59:37	0:59:37	H	8	116.69	H	25	3693.62	3576.93	0:59:37	H	8	116.69	H	25	3693.62	3576.93	0:59:37
I	1:19:28	1:19:28	I	9	115.21	I	26	4883.015	4767.805	1:19:28	I	9	115.21	I	26	4883.015	4767.805	1:19:28
J	1:32:01	1:42:27	J	10	106.74	J	27	5627.7	5520.96	1:32:01	J	10	106.74	J	27	6253.47	6146.73	1:42:27
K	1:01:28	1:03:44	K	11	238.02	K	28	3926.185	3688.165	1:01:28	K	11	238.02	K	28	4061.565	3823.545	1:03:44
L	0:43:39	0:43:39	L	12	170.655	L	29	2789.275	2618.62	0:43:39	L	12	170.655	L	29	2789.35	2618.695	0:43:39
M	0:57:41	0:58:26	M	13	233.225	M	30	3694.635	3461.41	0:57:41	P	13	233.225	M	30	3739.34	3506.115	0:58:26
N	2:16:49	2:16:49	N	14	159	N	31	8367.605	8208.605	2:16:49	Q	14	159	N	31	8367.605	8208.605	2:16:49
O	1:14:37	1:14:37	O	15	164.27	O	32	4641.01	4476.74	1:14:37	R	15	164.27	O	32	4641.01	4476.74	1:14:37
P	0:58:28	1:09:39	P	16	110.06	P	33	3738.32	3628.26	1:00:28	S	16	109.88	P	33	4289.12	4179.24	1:09:39

Scenario/Gate	11	12	Cumulative - Max								Cumulative + Project - Max							
Zone Evacuation Time	Cumulative - Max	Cumulative + Project - Max	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:48:44	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44
B	1:42:31	1:42:31	B	2	197.955	B	19	6348.77	6150.815	1:42:31	B	2	197.955	B	19	6348.77	6150.815	1:42:31
C	0:46:43	0:46:43	C	3	122.685	C	20	2925.48	2802.795	0:46:43	C	3	122.685	C	20	2925.48	2802.795	0:46:43
D	1:12:18	1:12:18	D	4	128.79	D	21	4467.1	4338.31	1:12:18	D	4	128.79	D	21	4467.1	4338.31	1:12:18
E	1:04:26	1:04:26	E	5	174.905	E	22	4040.615	3865.71	1:04:26	E	5	174.905	E	22	4040.615	3865.71	1:04:26
F	1:25:54	1:25:54	F	6	168.79	F	23	5322.445	5153.655	1:25:54	F	6	168.79	F	23	5322.445	5153.655	1:25:54
G	1:33:42	1:33:50	G	7	163.865	G	24	5786.235	5622.37	1:33:42	G	7	163.865	G	24	5793.585	5629.72	1:33:50
H	0:59:37	0:59:37	H	8	116.69	H	25	3693.62	3576.93	0:59:37	H	8	116.69	H	25	3693.62	3576.93	0:59:37
I	1:19:28	1:19:28	I	9	115.21	I	26	4883.015	4767.805	1:19:28	I	9	115.21	I	26	4883.015	4767.805	1:19:28
J	1:43:09	1:46:50	J	10	106.74	J	27	6296.065	6189.325	1:43:09	J	10	106.74	J	27	6516.41	6409.67	1:46:50
K	1:04:20	1:04:52	K	11	238.02	K	28	4097.92	3859.9	1:04:20	K	11	238.02	K	28	4130.145	3892.125	1:04:52
L	0:43:29	0:43:31	L	12	170.655	L	29	2779.935	2609.28	0:43:29	L	12	170.655	L	29	2781.23	2610.575	0:43:31
M	0:58:25	0:58:25	M	13	233.225	M	30	3737.805	3504.58	0:58:25	P	13	233.225	M	30	3737.985	3504.76	0:58:25
N	2:16:49	2:16:49	N	14	159	N	31	8367.605	8208.605	2:16:49	Q	14	159	N	31	8367.605	8208.605	2:16:49
O	1:14:37	1:14:37	O	15	164.27	O	32	4641.01	4476.74	1:14:37	R	15	164.27	O	32	4641.01	4476.74	1:14:37
P	1:10:48	1:12:30	P	16	109.77	P	33	4357.91	4248.14	1:10:48	S	16	109.715	P	33	4459.93	4350.215	1:12:30

Scenario/Gate	13	14	Cumulative - Average - SAT								Cumulative + Project - Average - SAT							
Zone Evacuation Time	Cumulative - Average - SAT	Cumulative + Project - Average - SAT	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:48:44	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44
B	1:38:41	1:38:41	B	2	197.955	B	19	6119.25	5921.295	1:38:41	B	2	197.955	B	19	6119.25	5921.295	1:38:41
C	0:43:42	0:43:42	C	3	124.63	C	20	2747.05	2622.42	0:43:42	C	3	124.63	C	20	2747.05	2622.42	0:43:42
D	1:04:08	1:04:08	D	4	132.215	D	21	3979.92	3847.705	1:04:08	D	4	132.215	D	21	3979.92	3847.705	1:04:08
E	1:00:13	1:00:13	E	5	183.11	E	22	3795.68	3612.57	1:00:13	E	5	183.11	E	22	3795.68	3612.57	1:00:13
F	1:16:23	1:16:23	F	6	170	F	23	4752.865	4582.865	1:16:23	F	6	170	F	23	4752.865	4582.865	1:16:23
G	1:23:36	1:28:49	G	7	164.265	G	24	5180.695	5016.43	1:23:36	G	7	164.265	G	24	5493.715	5329.45	1:28:49
H	0:54:09	0:54:09	H	8	118.09	H	25	3367.33	3249.24	0:54:09	H	8	118.09	H	25	3367.33	3249.24	0:54:09
I	1:11:51	1:11:51	I	9	116.265	I	26	4427.69	4311.425	1:11:51	I	9	116.265	I	26	4427.69	4311.425	1:11:51
J	1:26:55	1:33:15	J	10	106.8	J	27	5322.225	5215.425	1:26:55	J	10	106.8	J	27	5701.54	5594.74	1:33:15
K	0:59:26	1:01:42	K	11	238.375	K	28	3804.14	3565.765	0:59:26	K	11	238.375	K	28	3940.485	3702.11	1:01:42
L	0:42:11	0:42:11	L	12	171.185	L	29	2702.555	2531.37	0:42:11	L	12	171.185	L	29	2702.71	2531.525	0:42:12
M	0:58:04	0:58:04	M	13	233.225	M	30	3717.11	3483.885	0:58:04	P	13	233.225	M	30	3717.585	3484.36	0:58:04
N	2:14:23	2:14:23	N	14	159.03	N	31	8221.725	8062.695	2:14:23	Q	14	159.03	N	31	8221.725	8062.695	2:14:23
O	1:06:39	1:06:39	O	15	164.56	O	32	4163.305	3998.745	1:06:39	R	15	164.56	O	32	4163.305	3998.745	1:06:39
P	0:57:25	1:03:22	P	16	110.165	P	33	3555.235	3445.07	0:57:25	S	16	109.94	P	33	3912.245	3802.305	1:03:22

Scenario/Gate	15	16	Cumulative - Max - SAT								Cumulative + Project - Max - SAT							
Zone Evacuation Time	Cumulative - Max - SAT	Cumulative + Project - Max - SAT	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:48:44	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44	A	1	179.805	A	18	3103.925	2924.12	0:48:44
B	1:38:41	1:38:41	B	2	197.955	B	19	6119.25	5921.295	1:38:41	B	2	197.955	B	19	6119.25	5921.295	1:38:41
C	0:43:42	0:43:42	C	3	124.63	C	20	2747.05	2622.42	0:43:42	C	3	124.63	C	20	2747.05	2622.42	0:43:42
D	1:04:08	1:04:08	D	4	132.215	D	21	3979.92	3847.705	1:04:08	D	4	132.215	D	21	3979.92	3847.705	1:04:08
E	1:00:13	1:00:13	E	5	183.11	E	22	3795.68	3612.57	1:00:13	E	5	183.11	E	22	3795.68	3612.57	1:00:13
F	1:16:23	1:16:23	F	6	170	F	23	4752.865	4582.865	1:16:23	F	6	170	F	23	4752.865	4582.865	1:16:23
G	1:28:01	1:28:02	G	7	164.265	G	24	5445.6	5281.335	1:28:01	G	7	164.265	G	24	5446.125	5281.86	1:28:02
H	0:54:09	0:54:09	H	8	118.09	H	25	3367.33	3249.24	0:54:09	H	8	118.09	H	25	3367.33	3249.24	0:54:09
I	1:11:51	1:11:51	I	9	116.265	I	26	4427.69	4311.425	1:11:51	I	9	116.265	I	26	4427.69	4311.425	1:11:51
J	1:35:32	1:39:24	J	10	106.8	J	27	5839.04	5732.24	1:35:32	J	10	106.8	J	27	6070.555	5963.755	1:39:24
K	1:02:51	1:03:01	K	11	238.375	K	28	4009.39	3771.015	1:02:51	K	11	238.375	K	28	4019.49	3781.115	1:03:01
L	0:42:40	0:42:40	L	12	171.185	L	29	2731.36	2560.175	0:42:40	L	12	171.185	L	29	2731.55	2560.365	0:42:40
M	0:57:57	0:57:57	M	13	233.225	M	30	3710.43	3477.205	0:57:57	P	13	233.225	M	30	3710.49	3477.265	0:57:57
N	2:14:23	2:14:23	N	14	159.03	N	31	8221.725	8062.695	2:14:23	Q	14	159.03	N	31	8221.725	8062.695	2:14:23
O	1:06:39	1:06:39	O	15	164.56	O	32	4163.305	3998.745	1:06:39	R	15	164.56	O	32	4163.305	3998.745	1:06:39
P	1:07:57	1:09:53	P	16	109.84	P	33	4186.705	4076.865	1:07:57	S	16	109.785	P	33	4303.17	4193.385	1:09:53

Scenario/Gate	17	18	Hillside with Existing Average - softball game day								Hillside with Existing + Project Average - softball game day							
Zone Evacuation Time	Hillside with Existing Average - softball game day	Hillside with Existing + Project Average - softball game day	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time	Start Zone	Start Gate	Start Time	End Zone	End Gate	End Time	Elapse Seconds	Elapse Time
A	0:00:00	0:00	A	1	0	A	18	0	0	0:00:00	A	1	0	A	18	0	0	0:00:00
B	0:00:00	0:00	B	2	0	B	19	0	0	0:00:00	B	2	0	B	19	0	0	0:00:00
C	0:00:00	0:00	C	3	0	C	20	0	0	0:00:00	C	3	0	C	20	0	0	0:00:00
D	0:00:00	0:00	D	4	0	D	21	0	0	0:00:00	D	4	0	D	21	0	0	0:00:00
E	0:00:00	0:00	E	5	0	E	22	0	0	0:00:00	E	5	0	E	22	0	0	0:00:00
F	0:21:00	0:21	F	6	169.69	F	23	1429.63	1259.94	0:21:00	F	6	169.69	F	23	1429.63	1259.94	0:21:00
G	0:38:05	0:41	G	7	164	G	24	2448.715	2284.715	0:38:05	G	7	164	G	24	2666.205	2502.205	0:41:42
H	0:00:00	0:00	H	8	0	H	25	0	0	0:00:00	H	8	0	H	25	0	0	0:00:00
I	0:00:00	0:00	I	9	0	I	26	0	0	0:00:00	I	9	0	I	26	0	0	0:00:00
J	0:00:00	0:00	J	10	0	J	27	0	0	0:00:00	J	10	0	J	27	0	0	0:00:00
K	0:29:10	0:32	K	11	238.245	K	28	1988.03	1749.785	0:29:10	K	11	238.245	K	28	2217.285	1979.04	0:32:59
L	0:23:15	0:27	L	12	171.055	L	29	1565.83	1394.775	0:23:15	L	12	171.055	L	29	1843.735	1672.68	0:27:53
M	0:54:36	0:55	M	13	233.265	M	30	3508.965	3275.7	0:54:36	P	13	233.265	M	30	3552.235	3318.97	0:55:19
N	0:00:00	0:00	N	14	0	N	31	0	0	0:00:00	Q	14	0	N	31	0	0	0:00:00
O	0:00:00	0:00	O	15	0	O	32	0	0	0:00:00	R	15	0	O	32	0	0	0:00:00
P	0:22:42	0:30	P	16	117.645	P	33	1479.635	1361.99	0:22:42	S	16	113.315	P	33	1917.565	1804.25	0:30:04

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