FCS
An ADEC Innovation

Byway East Affordable Housing Project

Class 32 Exemption Analysis

City of Napa, Napa County, California

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ACRONYMS AND ABBREVIATIONS

µg/m3	micrograms per cubic meter
AB	Assembly Bill
ADA	Americans with Disabilities Act
ADT	Average Daily Traffic
APN	Assessor's Parcel Number
AQP	Air Quality Plan
ARB	California Air Resources Board
Bay Area Air District	Bay Area Air Quality Management District
BMP	Best Management Practice
BSA	Biological Study Area
CAL FIRE	California Department of Forestry and Fire Protection
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
Cal/OSHA	California Occupational Safety and Health Administration
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CMP	Congestion Management Program
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CO	carbon monoxide
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Rank
dBA	A-weighted decibels
DMA	Drainage Management Area
DOF	California Department of Finance
DPM	Diesel Particulate Matter
DPR	Department of Parks and Recreation
DTSC	California Department of Toxic Substances Control
du/acre	dwelling units per acre
EPA	United States Environmental Protection Agency
EV	electric vehicle

EVSE	Electric Vehicle Supply Equipment
FCS	FirstCarbon Solutions
FEMA	Federal Emergency Management Agency
FHSZ	Fire Hazard Severity Zone
FTA	Federal Transit Administration
GHG	greenhouse gas
HCP	Habitat Conservation Plan
HDR	High-Density Residential
HRA	Health Risk Assessment
in/sec	inches per second
lb	pound
L_{eq}	equivalent continuous noise/sound level
$L_{eq/(8\text{-}hr)}$	8-hour average equivalent noise/sound level
LID	Low Impact Development
L_{max}	maximum noise/sound level
LRA	Local Responsibility Area
MCE	Marin Clean Energy
MEIR	Maximally Exposed Individual Resident
MEIW	Maximally Exposed Individual Worker
MS4	Municipal Separate Storm Sewer System
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NapaSan	Napa Sanitation District
NCCP	Natural Community Conservation Plan
NO_X	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NRWS	Napa Recycling and Waste Services
NVTA	Napa Valley Transportation Authority
NWD	City of Napa Water Division
NWIC	Northwestern Information Center
O_3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PG&E	Pacific Gas and Electric Company
Phase I CRA/HRE	Phase I Cultural Resources Assessment and Historic Resources Evaluation
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PM_{10}	particulate matter less than 10 microns in diameter

PPV	Peak Particle Velocity
PQS	Professional Qualification Standards
RCRA	Resource Conservation and Recovery Act
RHNA	Regional Housing Needs Assessment
RM	Multi-Family Residential
ROG	reactive organic gases
RV	recreational vehicle
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SFBAAB	San Francisco Bay Area Air Basin
SLF	Sacred Lands File
SR	State Route
SRA	State Responsibility Area
SWPPP	Storm Water Pollution Prevention Plan
TAC	toxic air contaminant
TCR	Tribal Cultural Resource
TIS	Transportation Impact Study
TPZ	Tree Protection Zone
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VMT	Vehicle Miles Traveled
WEAP	Worker Environmental Awareness Program
WELO	Water Efficient Landscape Ordinance
WQMP	Water Quality Management Plan

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1 - INTRODUCTION

FirstCarbon Solutions (FCS) has prepared this memorandum to evaluate whether the proposed development of Byway East Affordable Housing Project (Proposed Project) meets the criteria identified in California Environmental Quality Act (CEQA) Guidelines Section 15332 to qualify for an Infill Exemption (Class 32). The Proposed Project is categorically exempt because it is consistent with all criteria listed in CEQA Guidelines Section 15332. No part of the Proposed Project triggers any of the disqualifying exceptions related to categorical exemptions listed in CEQA Guidelines Section 15300.2.

The Proposed Project is a 100 percent affordable housing development and qualifies for incentives, concessions, waivers, and density increases under California's State Density Bonus Law (Government Code Section 65915). As discussed further in Section 1.3, the Proposed Project utilizes these provisions to request modifications to certain local development standards, including building height, setbacks, open space, landscaping, and parking requirements. Accordingly, while certain aspects of the Proposed Project exceed otherwise applicable development standards of the applicable zoning district, those modifications are expressly authorized under State law and do not affect the Proposed Project's consistency with the General Plan or its eligibility for the Class 32 Infill Development Exemption.

1.1 - Project Location and Setting

1.1.1 - Regional Location

The City of Napa (City) is located in Napa County (County), part of the North Bay and the broader San Francisco Bay Area (Exhibit 1). The City covers approximately 18.05 square miles, or 11,552 acres, and has a population of approximately 77,803 persons.[1,2] The City grew rapidly between 1940 and 1950, and its economy currently blends tourism, hospitality, food, art, and entertainment together with the principal education, healthcare, and commercial uses in the County.[3]

Regional access to the City is provided by State Route 29 (SR-29), which runs in a north–south orientation and is located approximately 40 feet west of the approximately 2.61-acre Project Site across Byway East. Additionally, State Route 121 (SR-121) and State Route 12 (SR-12) provide regional access to the City, and both run east-west. SR-121 and SR-12 are located approximately 3.82 miles and 5.30 miles southeast of the Project Site, respectively.

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1 United States Census Bureau. 2026. QuickFacts. Napa City, California. Website: https://www.census.gov/quickfacts/fact/table/napacitycalifornia/PST045225. Accessed May 20, 2026.

2 California Department of Finance (DOF). 2026. E-5 Population and Housing Estimates for Cities, Counties, and the State, 2020-2026. Website: https://dof.ca.gov/forecasting/demographics/estimates/e-5-population-and-housing-estimates-for-cities-counties-and-the-state-2020-2026/. Accessed May 20, 2026.

3 City of Napa. 2022. 2040 General Plan. October.

1.1.2 - Local Vicinity

The approximately 2.61-acre Project Site is located at 4122 and 4124 Byway East (Assessor's Parcel Numbers [APNs] 038-063-001 and 038-063-007) in the City (Exhibit 1 and Exhibit 2). The two parcels would be merged as a part of the Proposed Project and thereafter would function as a single development site. The Project Site is located on the *Napa, California* United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle (Latitude 38° 20' 7" North; Longitude 122° 19' 14" West).

As shown in Exhibit 2, the Project Site is an infill site in the City, and it is bordered by Byway East and SR-29 on the west with commercial and hotel uses beyond, Reed Circle and a mobile home park on the north, a single-family residence on the east, and single-family residential and commercial uses near El Centro Avenue on the south. Situated in the northern part of the City, the area is primarily urban, surrounded by residential and commercial developments, with the Napa Valley Railroad and associated greenspace located further west of the Project Site. The nearest transit stop, the Byway Street East/Reed Circle stop, is immediately adjacent to the Project Site's western boundary and is serviced by Vine Transit Route E. The nearest transit station, the Soscol Gateway Transit Center, is located approximately 3.36 miles southeast of the Project Site and is serviced by 10 bus bays that provide bus services throughout the County.[4]

The Project Site is not located on a list compiled pursuant to Section 65962.5 of the Government Code (Cortese List).[5] According to the Federal Emergency Management Agency (FEMA), the Project Site is not located within a designated Flood Hazard Zone.[6] According to the California Department of Forestry and Fire Protection (CAL FIRE), the Project Site is not located in a State Responsibility Area (SRA) or Fire Hazard Severity Zone (FHSZ) within a Local Responsibility Area (LRA).[7]

1.1.3 - Existing Conditions

The Project Site is currently developed with the Advantage RV Center, consisting of a recreational vehicle (RV) repair shop, a storage area, and a single-family residence. The existing buildings total approximately 5,031 square feet. Surface parking is provided throughout the Project Site.

There are two (2) coast redwoods (*Sequoia sempervirens*), as well as Himalayan blackberry (*Rubus armeniacus*), willowherb sp (*Epilobium sp.*), and flax-leaved horseweed (*Erigeron bonariensis*) along

[4] 511 SF Bay. 2026. Napa Soscol Gateway Transit Center. Website: https://511.org/transit/centers/napa-soscol-gateway-transit-center. Accessed May 20, 2026.

[5] California Environmental Protection Agency (Cal/EPA). 2026. Cortese List Data Resources. Website: https://calepa.ca.gov/sitecleanup/corteselist/. Accessed May 21, 2026.

[6] Federal Emergency Management Agency (FEMA). 2026. National Flood Hazard Layer Viewer. Website: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd. Accessed May 21, 2026.

[7] California Department of Forestry and Fire Protection (CAL FIRE). 2026. Fire Hazard Severity Zone Viewer. Website: https://osfm.fire.ca.gov/what-we-do/community-wildfire-preparedness-and-mitigation/fire-hazard-severity-zones. Accessed May 21, 2026.

the Project Site's southeastern, eastern, and northwestern perimeters.[8,9] There is also a combination of planted trees, lawn, and a few scattered ornamental shrubs in front of the existing on-site residence located in the northwestern portion of the Project Site. Additional trees include coast live oak, valley oak (*Quercus lobata*), red ironbark (*Eucalyptus sideroxylon*), fig tree (*Ficus sp.*), various palm species, and other ornamental trees that are scattered outside of the Project Site's southeastern, eastern, and northwestern perimeters but overhang the Project Site.

An arborist survey prepared by Pramuk, Trees and Associates, LLC identified a total of 19 trees on and adjacent to the Project Site, including two (2) on-site coast redwoods and several native oak species located on neighboring properties.[10] Of the surveyed trees, 10 trees were identified as potentially subject to the City's Protected Native Tree regulations due to their species and size characteristics. Two (2) protected native trees are located on the Project Site: Tree #1, a 36.7-inch-diameter coast redwood in fair condition, and Tree #4, a 41.1-inch-diameter coast redwood in poor condition with a compacted root zone. The remaining eight (8) protected trees consist of coast live oaks and valley oaks located on adjacent properties whose canopies extend over portions of the Project Site.

Access to the Project Site is provided by one (1) existing driveway on Byway East. The Project Site is generally flat, with primarily pervious surfaces. The Project Site contains connections to existing wet and dry utilities within Byway East.

1.1.4 - General Plan Land Use and Zoning Designations

General Plan Land Use Designation

The 2040 General Plan (General Plan) designates the Project Site as High-Density Residential (HDR) (Exhibit 3).[11] The High-Density Residential designation is intended to allow for a full range of housing types, including multi-family, single-family attached, single-room occupancy facilities, live-work housing, and group quarters. Community-oriented non-residential uses, such as markets, restaurants, or other commercial uses that provide goods and services, are also permitted. The permitted density range for this land use designation ranges from 18.0 to 40.0 dwelling units per acre (du/acre).

Zoning

The Project Site is zoned as Multi-Family Residential (RM) (Exhibit 4).[12] The RM district is designed to provide opportunities for a mix of predominantly attached residential development patterns. Design standards for the RM district are intended to provide compatible transitions between higher density residential development and abutting lower-density residential uses. This district provides for medium

8 Stantec. 2025. 4122 Byway East, Napa - Biological Resource Survey Memorandum. October 16.

9 Pramuk, Trees and Associates, LLC. 2026. Arborist Report. June 23.

10 Ibid.

11 2040 General Plan. Page 2-9. Website: https://www.cityofnapa.org/DocumentCenter/View/10794/Napa-General-Plan-PDF. Accessed May 21, 2026.

12 City of Napa Zoning Map. Website: https://experience.arcgis.com/experience/6265a77033544cd5837a1216c3dba071#data_s=id%3AdataSource_1-19b133f8a1e-layer-17%3A3308009. Accessed May 21, 2026.

and higher density multi-family apartments, single-family attached and detached units, group residential, live-work housing, larger residential care facilities, and similar compatible uses, such as day care.[13]

Design standards for development on RM-zoned properties include a maximum height of 35 feet or 3 stories (whichever is lower), a front and side setback minimum of 20 feet and 15 feet, respectively, and a required minimum of 200 square feet of usable outdoor area per dwelling unit within private yards or common areas.

1.2 - Project Description

1.2.1 - Development Summary

The Proposed Project would include demolition of the existing Advantage RV Center, including the existing RV repair shop, storage yard, single-family residence, and carports, to construct an approximately 151,977-square-foot multi-family apartment building. The Proposed Project would be 100 percent affordable housing and would rely on the State Density Bonus Law for additional density over the maximum residential density allowed under the RM zoning standard, as well as incentives for and waivers of other applicable development standards in the Napa Municipal Code (refer to Section 1.3). As such, the apartment building consists of up to five (5) stories in height with 178 multi-family dwelling units, resulting in a density of approximately 68.2 du/acre. The proposed building would have a lot coverage of approximately 30 percent, and a maximum height of 68 feet, measured from grade to the top of the stair tower roof structure. The Proposed Project would also feature approximately 7,365 square feet of tuck-under (ground-level) parking, 1,683 square feet of leasing office space, and 1,940 square feet of amenity space.

The proposed building would consist of four (4) different unit plans, detailed in Table 3 below.

Table 1: Proposed Project Summary

Plan	Bed/Bath	Unit Area (Square Feet)	Number of Units	Total Unit Area (Square Feet)	Unit Mix
P1.0	1 Bed/1 Bath	559	106	59,254	-
P1.0 Alt	1 Bed/1 Bath	627	4	2,508	-
		1 Bed Subtotal	**110**	**61,762**	**62%**
P2.0	2 Bed/1 Bath	778	58	45,124	-
P2.1	2 Bed/1 Bath	721	10	7,210	-
		2 Bed Subtotal	**68**	**52,334**	**38%**

[13] Municipal Code. Title 17 Zoning. Chapter 17.08 Residential Districts (RS, RI, RT, RM). Section 17.08.010(I). Specific Purposes. Website: https://ecode360.com/43396456#43396456. Accessed May 21, 2026.

Plan	Bed/Bath	Unit Area (Square Feet)	Number of Units	Total Unit Area (Square Feet)	Unit Mix
		Unit Total	**178**	**114,096**	**100%**
		Non-unit total	**-**	**37,881**	**-**
		Total	***178***	***151,977***	-

Notes:
All values are approximate.

Source: RESI Architecture, Inc. and Cypress Equity Investments. March 27, 2026.

The proposed building would be primarily clad in exterior plaster and board and batten siding, providing a modern, three-dimensional look. The materials palette would include colors such as light and dark grey and light and dark green. The primary building entrances would be flanked with metal siding with a wood finish and dark bronze-framed windows.

1.2.2 - Landscaping

The Proposed Project would result in the removal of two (2) on-site protected native trees as defined by Municipal Code Section 12.45.030.[14] Approximately eight (8) protected native trees are located on adjacent properties. The adjacent, off-site protected trees would require the establishment of Tree Protection Zones (TPZs) at their respective drip lines. The City and applicant would evaluate grading, utility, and construction plans with respect to the off-site tree protection during the Engineering and Building Department plan review and make recommendations as necessary. Any impacts to adjacent trees, including potential removals, would be addressed through the City's tree protection and permitting requirements, as applicable. The Proposed Project would include the planting of approximately 58 new trees throughout the Project Site. Proposed tree species would include trident maple, red sunset maple, Armstrong red maple, Eddie's white wonder dogwood, crape myrtle, Saratoga hybrid laurel, Keith Davey Chinese pistache, and Canada red chokecherry.

The Proposed Project would include approximately 16,952 square feet of landscaping throughout the Project Site, including portions of the 9,261 square feet of common (usable) open space. Landscaping throughout the Project Site would include drought-resistant shrubs, ground cover, perennials, and ornamental grasses. Irrigation utilized for the Proposed Project would be required to adhere to the City's Water Efficient Landscape Ordinance (WELO), which provides requirements for plant selection, soil preparation, and irrigation.[15]

[14] Pramuk, Trees and Associates, LLC. 2026. Arborist Report. June 23.

[15] City of Napa. 2015. Water Efficient Landscape Guidelines. Website: https://www.cityofnapa.org/DocumentCenter/View/3566/WELO-Guidelines-PDF?bidId=. Accessed May 21, 2026.

1.2.3 - Access, Circulation, and Parking

Vehicular Circulation

Access to the Project Site would be provided via two (2) proposed driveways constructed along Byway East: One (1) 20-foot driveway located along the northwestern corner of the Project Site, which would function as the main entrance, and one (1) 20-foot driveway located in the southwestern corner of the Project Site that would function as a secondary entrance. Both driveways would facilitate two-way vehicle access and emergency vehicle access for the Proposed Project.

Parking

The Proposed Project would include a total of 182 vehicle parking spaces (1.02 spaces per unit), including nine (9) Americans with Disabilities Act (ADA)-accessible stalls. The proposed on-site parking would include 30 covered stalls located within tuck-under ground-level parking along the north façade of the building and 152 surface parking spaces. The 152 surface parking spaces would include 100 standard stalls, 50 compact stalls, and 2 parallel stalls. 178 on-site vehicle parking spaces would be electric vehicle (EV) ready (with all electrical charging infrastructure installed, ready for use).

Bicycle and Pedestrian Access

New pedestrian sidewalks would be constructed on the Project Site frontage along Byway East, and the Proposed Project would provide 12 short-term bicycle parking stalls and 90 long-term bicycle parking stalls.

1.2.4 - Utilities

The Project Site is located in an urban area and is currently served by all required utilities, including water, sanitary sewer, storm drainage, electricity, and telecommunications infrastructure. The Proposed Project would connect to existing wet and dry utilities within Byway East and the Project Site.

- **Water:** Water service to the Project Site is provided by the City of Napa Water Division (NWD).[16]
- **Wastewater:** Wastewater services to the Project Site are provided by Napa Sanitation District (NapaSan).
- **Storm Drainage:** The Proposed Project incorporates a sitewide stormwater drainage system that organizes runoff into multiple drainage management areas (DMAs) that generally correspond to building, parking, and circulation areas. Runoff from impervious surfaces would be routed via surface flow and/or on-site conveyance features to distributed bioretention facilities for treatment. The Proposed Project's stormwater control plan identifies eight (8) DMAs with calculated tributary areas, runoff factors, and required water quality treatment sizing, with each primary DMA providing bioretention areas that meet or slightly exceed the required treatment area, indicating compliance with applicable water quality design criteria. These facilities are integrated along the site perimeter and within internal landscaped areas adjacent to parking and

[16] City of Napa. 2026. Water Division. Website: https://www.cityofnapa.org/362/Water-Division. Accessed May 21, 2026.

drive aisles, allowing stormwater to be captured, filtered, and infiltrated on site. One (1) small DMA is identified as untreated, while the overall system is designed to manage predominantly impervious runoff and maintain post-development stormwater quality through dispersed, landscape-based treatment features. The Proposed Project would also connect to existing stormwater drainage facilities in Byway East.

- **Solid Waste:** Solid waste and recycling collection services for the Project Site would be provided by Napa Recycling and Waste Services (NRWS).[17] The Proposed Project would include trash enclosures to store waste receptacles for regular servicing.
- **Electricity and Telecommunications:** Electricity infrastructure would be maintained by the Pacific Gas and Electric Company (PG&E), while electricity would be generated by Marin Clean Energy (MCE).[18] The Proposed Project would be constructed as all-electric, with no natural gas service provided to the Project Site. There are also various telecommunications companies who operate and maintain transmission and distribution infrastructure in the project vicinity and currently serve the existing Project Site.

1.2.5 - Project Construction

Construction of the Proposed Project is anticipated to begin in November 2027 and be completed in September 2029, with a construction duration of approximately 22 months. Construction activities are expected to occur primarily Monday through Friday between 7:00 a.m. and 7:00 p.m. Construction activities would include demolition, site preparation, grading, construction, paving, and finishing with architectural coating. Proposed Project construction would require approximately 4,000 cubic yards of exported materials and 1,200 cubic yards of imported materials.

1.3 - State Density Bonus Law

California Government Code Section 65915 (Senate Bill [SB] 1818, Chapter 928) (State Density Bonus Law) includes provisions requiring local governments to provide developers with a density increase over otherwise maximum allowable residential density (density bonus) and other incentives, provided the developer meets certain requirements to construct housing with units affordable to lower- or moderate-income households, as explained in Section 65915(b) of the Government Code.

The RM zoning district allows a density of 18.0 to 40.0 du/acre. Given the Project Site's 2.61-acre size, the allowable density would be 47 to 105 dwelling units. However, the Proposed Project would provide 100 percent of the 178 units as affordable for Very Low and Low-income residents, with the exception of two (2) non-restricted manager's units. Therefore, as prescribed by the State Density Bonus Law as detailed in Government Code Section 65915(f)(3)(D)(i), the Proposed Project would be eligible for an 80 percent density increase over its maximum base density of 40 du/acre, equating to 32 additional

[17] City of Napa. 2026. Solid Waste and Recycling Division. Website: https://www.cityofnapa.org/488/Solid-Waste-Recycling-Division. Accessed May 21, 2026.

[18] Pacific Gas and Electric Company (PG&E). 2026. PG&E Service Area. Website: https://www.pge.com/en/featured/pge-service-area.html. Accessed June 9, 2026.

units per acre or a maximum of 72 du/acre, respectively.[19] Based on the 2.61-acre Project Site size, the Proposed Project would be allowed a new maximum of 189 total dwelling units.

As noted above, the Proposed Project would provide 178 dwelling units, which would be within the maximum density allowed pursuant to State Density Bonus Law. The Proposed Project's density calculations are summarized in Table 2.

Table 2: Proposed Project Density Calculations

Density Calculations	Project Site Size	Base Allowed Maximum Density	Eligible Density Bonus (80 percent above allowed base)
Base Density Calculations per Acre	—	40 du/acre	32 du/acre (with density bonus, total of 72 du/acre)
Density Bonus Calculations for Project Site	2.61 acres	105 units	189 units

Notes:
All values are approximate.
du/acre = dwelling units per acre

The Proposed Project would provide 100 percent of units as affordable to households with Very Low and Low Incomes, except for two (2) non-restricted manager's units, which are expressly allowed under Government Code Section 65915. Based on the Proposed Project's base density of 105 units and the provision of 100 percent of all units as affordable to lower-income households, the Proposed Project would be eligible for an 80 percent increase to the maximum density, resulting in a new maximum density of approximately 189 units. The Proposed Project, containing 178 units, would be within this allowable range.

Source: FirstCarbon Solutions (FCS). 2026.

In addition, by designating 100 percent of the units as inclusionary units affordable to Very Low and Low-income households, except for the two (2) manager's units, the Proposed Project qualifies for up to five (5) incentives or concessions, unlimited waivers or reductions of development standards, and parking reductions under the State Density Bonus Law. The applicant is requesting the following waivers from the City:

- **Building Height:** The RM zoning district has a maximum building height of three (3) stories or 35 feet, and the project applicant requests a waiver to increase the maximum building height to five (5) stories, equal to approximately 68 feet in height.

[19] California Legislative Information. 2026. California Government Code § 65195. Website: https://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?sectionNum=65915&lawCode=GOV. Accessed September 2, 2026.

- **Front Setback:** The RM zoning district has a minimum front setback of 20 feet, and the Proposed Project proposes a front setback of approximately 11 feet; therefore, the project applicant requests a waiver to reduce the minimum front setback.
- **Side Yard Setback:** The RM zoning district has a minimum interior side yard setback of 15 feet for buildings with three or more stories, and the Proposed Project proposes a side yard setback of approximately 3 feet; therefore, the project applicant requests a waiver to reduce the minimum interior side yard setback.
- **Open Space:** The City's Municipal Code requires new housing developments to provide 200 square feet of open space per dwelling unit, or a total of 35,600 square feet for the Proposed Project. The Proposed Project would provide approximately 9,261 square feet of common open space; therefore, the project applicant requests a waiver to reduce this open space requirement.
- **Landscaping within Parking Area:** The City's Landscaping Standards (Resolution No. 86-76) requires providing one (1) 3-foot by 15-foot landscaped area per 10 parking stalls. The Proposed Project would not provide this landscaping feature within the on-site parking areas; therefore, the project applicant requests a waiver for this requirement.
- **Parking:** Section 17.54.040, Parking Requirements, of the City's Municipal Code states that apartments of more than 50 units must provide 1.25 parking spaces per 1-bedroom unit and 1.50 spaces per 2-bedroom unit, as well as 1 guest space per 4 units, totaling 284 required spaces for the Proposed Project. Assembly Bill (AB) 2345 provides for reduced parking standards under the State Density Bonus Law (1 space per 1-bedroom unit and 1.5 spaces per 2-bedroom unit), totaling 212 required spaces for the Proposed Project. The Proposed Project would provide 182 parking stalls, representing a ratio of 1.02 spaces per unit. Therefore, the project applicant requests a waiver to reduce the minimum parking requirements.

The applicant is also requesting the following concession:

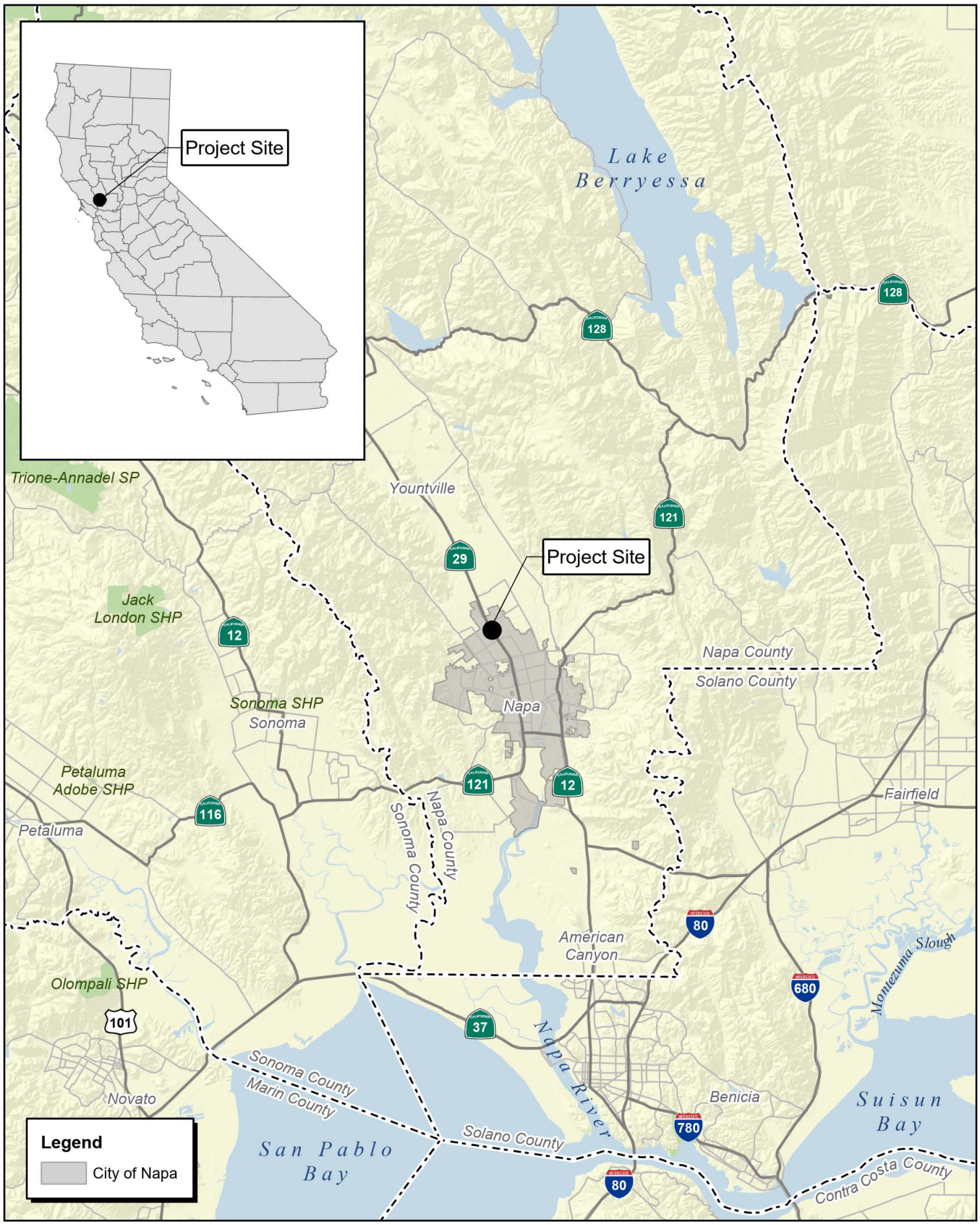
- **Parking Stall Width:** Section 17.54.160(A) of the City's Municipal Code requires standard parking stalls to have a minimum width of nine (9) feet. The Proposed Project requests an incentive/concession pursuant to Government Code Section 65915(k) to reduce the minimum parking stall width to 8.5 feet. This modification would allow four (4) additional parking stalls to be accommodated on-site. Without the requested incentive, the Proposed Project would require installation of four (4) mechanical parking stackers to provide the same parking capacity, resulting in an estimated minimum cost of approximately $60,000, excluding associated procurement, installation, and maintenance costs. Therefore, the project applicant requests an incentive to reduce the minimum parking stall width requirement because it would result in actual and identifiable cost reductions that would assist in providing affordable housing.

1.4 - Discretionary Approval

The Proposed Project requires the following discretionary approval from the City:

- Major Design Review Permit

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Source: Census Data. The California Spatial Information Library (CaSIL). City of Napa.

5 2.5 0 5 Miles

Exhibit 1
Regional Location Map

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Source: ESRI World Imagery. RSA+, 05/26/2026.

1,000 500 0 1,000 Feet

Exhibit 2
Local Vicinity Map

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Source: ESRI World Imagery. RSA+, 05/26/2026. City of Napa.

120 60 0 120 Feet

Exhibit 3
General Plan Land Use Designation Map

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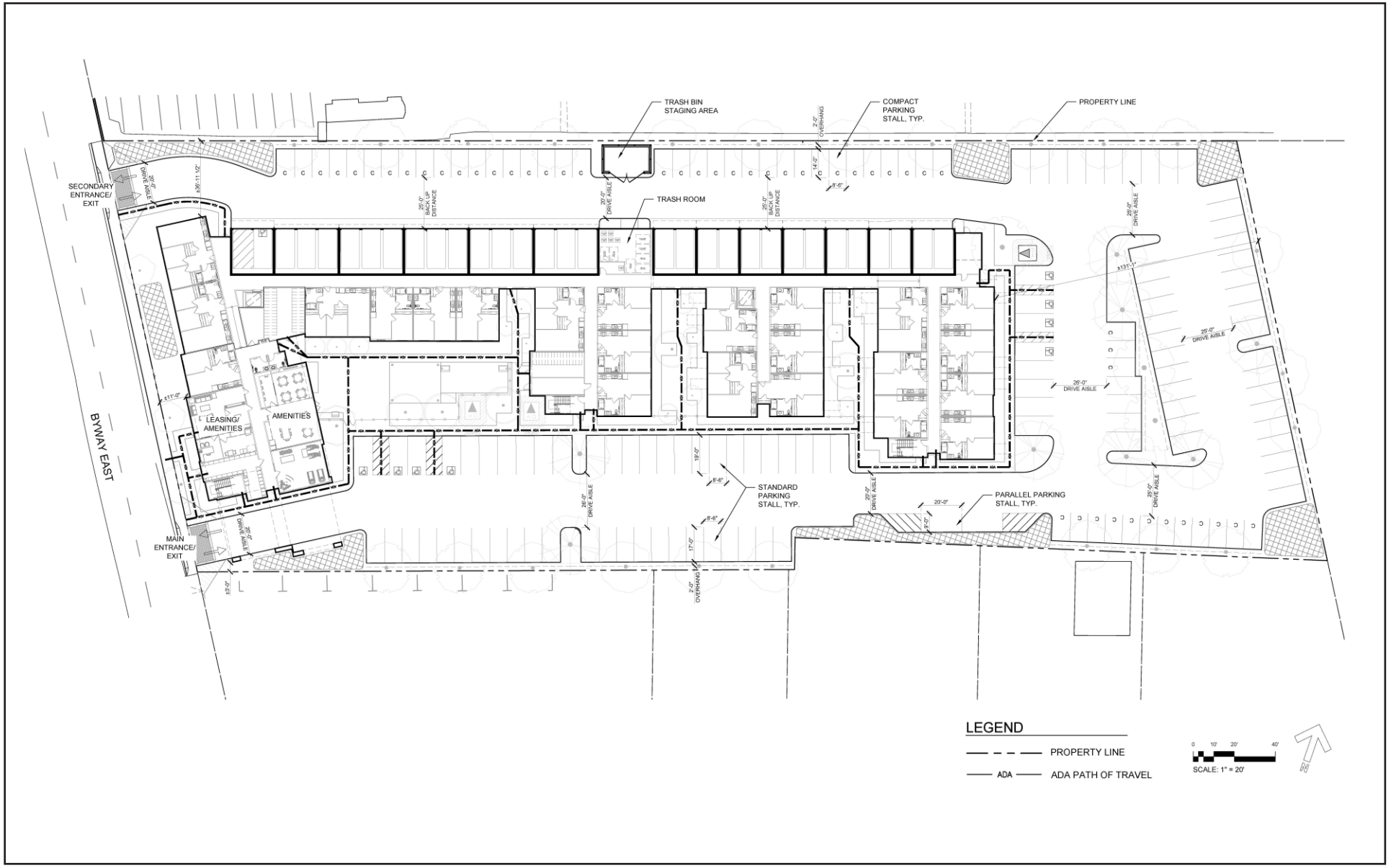


Source: ESRI World Imagery. RSA+, 05/26/2026. City of Napa.

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Exhibit 4
Zoning Districts

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Source: Resi Architecture, 09/08/2026.

Exhibit 5
Site Plan

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2 - CEQA FRAMEWORK FOR EXEMPTIONS

2.1 - Class 32 Exemption

A Class 32 Exemption applies to infill development projects that meet the following criteria as outlined in CEQA Guidelines Section 15332:

a) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulations.

b) The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses.

c) The project site has no value as habitat for endangered, rare, or threatened species.

d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.

e) The site can be adequately served by all required utilities and public services.

A Class 32 Exemption may be used where above-noted conditions (a) through (e) are supported by substantial evidence.

2.2 - Exceptions to Categorical Exemptions

In addition, CEQA Guidelines Section 15300.2 lists exceptions to qualifying for a categorical exemption. These exceptions apply only to categorical exemptions identified in CEQA Guidelines Sections 15300-15333.

These exceptions are as follows:

a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located–a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, State, or local agencies. This exception does not apply to Class 32 exemptions and will not be discussed further.

b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type, in the same place, and over time is significant.

c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

d) **Scenic Highways.** A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a State Scenic Highway.

e) **Hazardous Waste Sites.** A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

f) **Historical Resources.** A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historic resource.

The following evaluates the proposed project for Class 32 eligibility conditions (a) through (e) and exceptions (a) through (f) and is supported by substantial evidence in the record.

2.3 - Analysis of Potential Environmental Effects

2.3.1 - Class 32 Criteria

The proposed project qualifies for a Class 32 categorical exemption (CEQA Guidelines § 15332), which applies to infill development projects in urban areas.

Criteria Section 15332(a): General Plan and Zoning Consistency

The Project Site is designated HDR under the General Plan and is zoned RM. The HDR designation is intended to accommodate a variety of residential housing types, including multi-family housing, at densities ranging from 18 to 40 dwelling units per acre, while the RM zoning district is intended to support medium- and high-density residential development and related compatible uses. Based on the Project Site's 2.61-acre size, the HDR designation would allow between 47 and 105 dwelling units at the base density. However, because 100 percent of the Proposed Project consists of dwelling units affordable for Very Low- and Low-Income households, except for two (2) non-restricted manager's units, it qualifies for an 80 percent density bonus pursuant to State Density Bonus Law, increasing the maximum allowable density to 72 dwelling units per acre and permitting up to 189 units on the Project Site. As a result, the proposed 178 units would be within the maximum density allowed by State law. The Proposed Project also qualifies for incentives, concessions, waivers, and parking reductions under State Density Bonus Law due to its provision of affordable housing. Accordingly, the applicant has requested waivers from certain local development standards, including building height, front and side yard setbacks, open space requirements, landscaping within parking areas, and parking requirements, as well as an incentive for parking stall width. These waivers and incentives are sought pursuant to State Density Bonus Law and do not affect the Proposed Project's consistency with the General Plan land use designation or the RM zoning district. Therefore, the Proposed Project is consistent with the applicable General Plan designation and policies, as well as the applicable zoning designation and regulations, as modified through the provisions of State Density Bonus Law.

To the extent the Proposed Project utilizes incentives, concessions, waivers, or reductions of development standards authorized by Government Code Section 65915, those modifications are expressly permitted by State Density Bonus Law and therefore do not render the Proposed Project inconsistent with applicable General Plan or zoning regulations. Under CEQA Guidelines Section 15332(a), courts have held that development standard waivers, variances, and density bonus concessions do not disqualify a project from Class 32 eligibility. (Wollmer v. City of Berkeley (2011) 193 Cal.App.4th 1329; CBIA v. BAAQMD (2015) 62 Cal.4th 369; Berkeley Hills Watershed Coalition v. City of Berkeley (2019) 31 Cal.App.5th 880.) Therefore, the proposed project meets the criteria of CEQA Guidelines Section 15332(a).

Criteria Section 15332(b): Project Location, Size, and Context

The entire project site is located within city limits on approximately 2.61 acres, which is within the 5-acre limit, and is surrounded in all directions by urban land uses. Therefore, the proposed project meets the criteria of CEQA Guidelines Section 15332(b).

Criteria Section 15332(c): Endangered, Rare, or Threatened Species

A field survey and a habitat assessment were conducted during daylight hours on September 23, 2025, by Stantec Consulting Services (Stantec) biologist David Tange. Additionally, a Stantec Biologist prepared a Biological Resources Survey Memorandum to characterize biological conditions on the project site, dated October 16, 2025 (Appendix A).

Special-status Species

Special-status taxa include those listed as rare, threatened, or endangered under the Federal Endangered Species Act or California Endangered Species Act (CESA), as well as taxa proposed for such listing, taxa that are listed as Species of Special Concern by the California Department of Fish and Wildlife (CDFW), plants with California Rare Plant Rank (CRPR) 1-4, and other taxa that have been identified by United States Fish and Wildlife Service (USFWS), CDFW, or local jurisdictions as unique or rare. No special-status plant or wildlife species were observed within the Biological Study Area (BSA) during the survey.

Based on the California Natural Diversity Database (CNDDB) record search, the following species have known occurrences within 2 miles of the Project Site: Greene's narrow-leaved daisy (*Erigeron greenei*) and northwestern pond turtle (*Actinemys marmorata*) (Appendix A). No special-status plant or wildlife species were observed within the BSA during the September 2025 field survey. The Project Site is mostly developed and operates as an RV center with existing structures. Existing ground cover is mostly gravel with dispersed grassy areas and mature trees present along the Project Site boundary and adjacent properties. Due to the highly disturbed nature of the Project Site, the Project Site does not provide habitat of value, which would be suitable for occurrence of the two special-status species known to occur in the area. Additionally, the Project Site does not provide any open areas with natural habitat which would serve as a migratory corridor for northwestern pond turtle, nor is there suitable upland or aquatic habitat in the vicinity for an individual to disperse from. Based on the disturbed/developed and urban land cover types, no special-status plant and wildlife species were

determined to have potential to occur within and/or near the Project Site. Additionally, there is no USFWS-designated critical habitat that overlaps the Project Site.

Summary

As discussed in more detail above, the Project Site is in a developed area and is bound by residential homes to the north, residential and commercial uses to the east and south, and SR-29 to the west. Based on its location in an urbanized area, special-status plants were not identified and are not expected to occur on the Project Site. Similarly, because of the developed/disturbed nature of the Project Site and lack of suitable habitat, special-status wildlife is not expected to occur on the Project Site, and no significant impacts are anticipated.

The Project Site is developed and is surrounded in all directions by extensive urban development, roadways, and other structures that serve as existing barriers to wildlife movement. The Project Site does not provide value as habitat for endangered, rare, or threatened species. Therefore, the Proposed Project meets the criteria of CEQA Guidelines Section 15332(c).

Criteria Section 15332(d): Air Quality

An Air Quality, Greenhouse Gas Emissions, and Energy Analysis Memorandum was prepared for the Proposed Project and is included as Appendix B. Detailed calculations, modeling assumptions, health risk assessment data, and supporting analysis are provided therein. The findings of that analysis are summarized below.

Consistency with Air Quality Plan

The Bay Area Air Quality Management District (Bay Area Air District) has adopted several air quality policies and plans to address the attainment and maintenance of State and federal air quality standards. The current Bay Area Air District attainment plan is the 2017 Clean Air Plan, adopted in April 2017. The 2017 Clean Air Plan serves as the regional Air Quality Plan (AQP) for the San Francisco Bay Area Air Basin (SFBAAB) for attaining National Ambient Air Quality Standards (NAAQS). A project would be judged to conflict with or obstruct the 2017 Clean Air Plan implementation if it would result in substantial new regional emissions not foreseen in the air quality planning process. The Bay Area Air District's 2022 CEQA Guidelines outline the following criteria that should be used for determining a project's consistency with the AQP.

- Criterion 1: Does the project support the primary goals of the AQP?
- Criterion 2: Does the project include applicable control measures from the AQP?
- Criterion 3: Does the project disrupt or hinder implementation of any AQP control measures?

Criterion 1

The primary goals of the 2017 Clean Air Plan are to attain air quality standards, reduce population exposure to unhealthy air and protect the public health in the Bay Area, and reduce greenhouse gas (GHG) emissions and protect the climate.

As discussed below, the Proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant during project construction or operation with implementation and, therefore, would not impede the 2017 Clean Air Plan's goal to attain air quality standards.

As discussed below, implementation of the Proposed Project would not expose sensitive populations to unhealthy air during project construction or operation with implementation, and, therefore, the Proposed Project supports the 2017 Clean Air Plan's goal to reduce population exposure to unhealthy air and protect public health in the Bay Area.

Finally, the Proposed Project would incorporate several features that support climate protection and GHG reduction goals. The Proposed Project would redevelop an existing infill site with a transit-adjacent, high-density residential community served by Vine Transit promoting opportunities for reduced vehicle travel. The Proposed Project would be constructed as an all-electric development, thereby eliminating on-site GHG emissions associated with natural gas combustion. In addition, 178 vehicle parking spaces would be EV-ready, supporting transportation electrification. The Proposed Project would also provide new pedestrian improvements, including sidewalk enhancements along Byway East, as well as 102 bicycle parking spaces (12 short-term and 90 long-term) to encourage alternative modes of transportation. The Proposed Project would provide substantial landscaping, including approximately 58 new trees, and drought-tolerant plantings consistent with the City's WELO. Therefore, the Proposed Project supports the 2017 Clean Air Plan's goal to reduce GHG emissions and protect the climate. Overall, the Proposed Project supports the primary goals of the 2017 Clean Air Plan and therefore would be consistent with Criterion 1.

Criterion 2

As detailed in Appendix B, the Proposed Project would comply with applicable Clean Air Plan control measures by complying with the latest energy efficiency standards, utilizing an all-electric design, incorporating ample landscaping and trees, meeting fugitive dust emissions minimization requirements during construction, and redeveloping an infill site with a transit-adjacent, high-density residential community. Therefore, the Proposed Project would not conflict with any applicable measures under the 2017 Clean Air Plan and would be consistent with Criterion 2.

Criterion 3

The Proposed Project would not hinder implementation of the applicable 2017 Clean Air Plan control measures and would generally support their objectives. The Proposed Project would be developed as an all-electric, high-density infill residential project that complies with applicable Title 24 and California Green Building Standards Code (CALGreen) energy efficiency standards, supports building and grid decarbonization, and includes 58 new trees, extensive landscaping, and EV-ready parking spaces. It would also provide new pedestrian improvements and 102 bicycle parking spaces and would be located adjacent to public transit, which would support alternative transportation modes, while construction and operation would be subject to applicable dust control, recycling, and waste diversion requirements. As such, the Proposed Project would not disrupt or hinder the implementation of any AQP control measures and would be consistent with Criterion 3.

Cumulatively Considerable Net Increase of Any Criteria Pollutants

Potential impacts could result as a result of exceeding State or federal health-based ambient air quality standards for which the SFBAAB is in nonattainment, which includes ozone (O_3) (and ozone precursors: reactive organic gases [ROG] and nitrous oxides [NO_X]), particulate matter less than 2.5 microns in diameter ($PM_{2.5}$), and particulate matter less than 10 microns in diameter (PM_{10}). Therefore, the following analysis assesses the ROG, NO_X, PM_{10}, and $PM_{2.5}$ emissions associated with the Proposed Project and compares construction-related and operational-related emissions against identified thresholds of significance.

Construction and operational emissions are analyzed separately below.

Construction Emissions

Fugitive Dust

Construction-related activities, including demolition, site preparation, grading, material delivery, and hauling, would result in fugitive dust emissions (e.g., $PM_{2.5}$ and PM_{10}). PM_{10}/$PM_{2.5}$ (fugitive dust) is a recognized impact to local communities. The Bay Area Air District does not have a numerical threshold of significance for fugitive dust PM emissions. Instead, the Bay Area Air District bases the determination of significance for fugitive dust on whether feasible and effective control measures have been implemented or not. For a project to have a less than significant impact related to construction-related fugitive dust emissions, it must implement all of the Bay Area Air District's Basic Best Management Practices (BMPs). The Proposed Project would need to comply with the City's General Plan Policy NRC 5-3, which requires the Proposed Project to implement Basic Construction Mitigation Measures for fugitive dust. Therefore, the Proposed Project would have a less than significant impact related to short-term construction fugitive dust emissions. In addition, the Proposed Project would comply with all applicable Bay Area Air District rules, including Regulation 6, Rule 1 (General Requirements) and Regulation 6, Rule 6 (Prohibition of Trackout), which require dust-generating operations to limit PM emissions.

ROG, NO_X, PM_{10}, and $PM_{2.5}$ Exhaust

General Plan Policy NRC 5-4, requires all construction equipment to be maintained and tuned to meet appropriate United States Environmental Protection Agency (EPA) and California Air Resources Board (ARB) emission requirements, including use of Tier 4 engines in off-road equipment and cleaner heavy-duty trucks to reduce NO_X and PM exhaust emission levels. Consistent with this policy, the construction emissions analysis assumed the use of a clean construction fleet including Tier 4 Interim engines for all off-road equipment with a rating of 50 horsepower or greater.

Table 3 shows the Proposed Project's average daily emissions from construction. As indicated in Table 3, construction exhaust emissions would be below the Bay Area Air District's recommended thresholds of significance.

Table 3: Criteria Pollutant Emissions—Construction

Construction Year	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
	Pounds per day			
2027	0.35	4.14	0.05	0.05
2028	0.60	2.55	0.05	0.05
2029	11.69	2.24	0.04	0.04
Significance Threshold (lbs/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
lbs = pounds
NO_X = oxides of nitrogen
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases

Average daily emissions were calculated by dividing the pounds of emissions by the number of net workdays of construction for each construction year.

Source: Appendix B

Operational Emissions

ROG, NO_X, PM_{10}, and $PM_{2.5}$

Operational-related emissions for the Proposed Project were estimated using the California Emissions Estimator Model (CalEEMod) and were compared against the Bay Area Air District's thresholds of significance. Operational emissions from the Proposed Project include those associated with ongoing operation and would include area, energy, and mobile sources.

- Area sources would include emissions from architectural coatings, consumer products, and landscape equipment.
- Energy use would not be a source of direct emissions at the Proposed Project as the residential units would be all-electric.
- Mobile sources would include exhaust and road dust emissions from the vehicles that would travel to and from the Project Site.

As shown in Table 4, the Proposed Project would not exceed any of the Bay Area Air District's thresholds of significance for daily operational emissions.

Table 4: Criteria Pollutant Emissions—Operation

	ROG	NO_X	PM_{10} Total	$PM_{2.5}$ Total
Project Buildout				
Mobile (lbs/day)	2.00	1.57	2.30	0.60
Area (lbs/day)	4.27	0.05	<0.01	<0.01
Energy, all-electric (lbs/day)	0.00	0.00	0.00	0.00
Average Daily Total (lbs/day)	**6.27**	**1.62**	**2.30**	**0.60**
Significance Threshold (lbs/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**
Annual Average Total (tons/year)	**1.15**	**0.29**	**0.42**	**0.11**
Significance Threshold (tons/year)	**10**	**10**	**15**	**10**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
lbs/day = pounds per day
NO_X = oxides of nitrogen
PM_{10} = particulate matter, 10 microns or less in diameter
$PM_{2.5}$ = particulate matter, 2.5 microns or less in diameter
ROG = reactive organic gases

Totals were summed using unrounded numbers and may not appear to sum exactly due to rounding.

Source: Appendix B

Carbon Monoxide Hotspot

A carbon monoxide (CO) hotspot is a localized concentration of CO that is above a CO Ambient Air Quality Standard. Localized CO hotspots typically occur in areas with high vehicle density, such as intersections with heavy peak-hour traffic and also 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 CO emissions from traffic generated by the Proposed Project are a concern at the local level because project trip generation could lead to congested intersections that can result in high localized concentrations of CO.

The Bay Area Air District provides screening criteria to determine whether implementing the Proposed Project could result in local CO emissions that exceed thresholds of significance. If all the following screening criteria are met, operation of the Proposed Project would result in a less than significant impact related to CO:

- The Proposed Project is consistent with an applicable Congestion Management Plan established by the County Congestion Management Agency for designated roads or highways, the regional transportation plan, and local congestion management agency plans.

- Project-generated traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.
- Project-generated 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).

Consistency with an Applicable Congestion Management Program

The Napa County Congestion Management Program (CMP) is administered by the Napa Valley Transportation Authority (NVTA), the designated Congestion Management Agency for Napa County. The CMP is intended to coordinate transportation and land use planning, reduce traffic congestion, improve mobility, and promote transit, bicycle, and pedestrian transportation options throughout the County. The Proposed Project would redevelop an existing infill site within the City with a high-density residential development in an urbanized area served by existing transit facilities, including a Vine Transit bus stop immediately adjacent to the Project Site. In addition, the Proposed Project would provide new pedestrian sidewalks along Byway East, 12 short-term bicycle parking spaces, and 90 long-term bicycle parking spaces, which would support multimodal transportation and reduce reliance on single-occupancy vehicle travel. 178 vehicle parking spaces would be EV-ready, facilitating electric vehicle use and supporting reductions in transportation-related emissions. The Proposed Project would not preclude implementation of the County's congestion management and transportation planning objectives and is compatible with NVTA's efforts to improve transit, bicycle, and pedestrian connectivity throughout the region. Therefore, the Proposed Project would be consistent with the Napa County CMP and would satisfy the first criterion.

Increase Traffic Volumes at Affected Intersections to No More Than 44,000 Vehicles Per Hour (or 24,000 Vehicles Per Hour Where Mixing Is Substantially Limited)

According to the Transportation Impact Study for the Byway East Affordable Housing Project, prepared by W-Trans, the peak-hour traffic volumes at the intersection of SR-29 and Wine Country Avenue would be approximately 2,304 vehicles per hour. The Proposed Project would be expected to generate approximately 51 trips during the PM peak-hour, and therefore project-generated traffic would not increase traffic volumes at affected intersections to more than 44,000 or 24,000 vehicles per hour, which satisfies the screening requirements for the second and third criterion, respectively,

Therefore, based on the above criteria, the Proposed Project would not exceed the CO screening criteria and would have a less than significant impact related to CO.

Expose Sensitive Receptors to Substantial Pollutant Concentrations

Sensitive receptors are individuals who may be more susceptible to air pollution exposure and associated health effects, including children, older adults, and people with existing respiratory or cardiovascular illnesses, because they are people that are ill, elderly, or have lungs that are not fully developed. Sensitive land uses are locations where sensitive receptors reside or spend substantial amounts of time, including residences, schools, daycare centers, hospitals, senior care facilities, shelters, places of employment, and similar facilities.

As discussed above, the Proposed Project is within 1,000 feet of sensitive receptors, including residences approximately 40 feet to the north (across Reed Circle), residences approximately 250 feet to the east, a commercial building (worker receptors) approximately 25 feet to the south, and residences approximately 50 feet to the south. Localized air emissions, including $PM_{2.5}$ and diesel particulate matter (DPM), can pose significant health risks to nearby sensitive receptors due to their concentrated exposure levels. Unlike regional emissions, which contribute to broader air quality trends, a localized emissions analysis focuses on site-specific risks like cancer and respiratory effects, ensuring that sensitive receptors adjacent to a project are adequately protected.

Construction and operation are discussed separately below.

Construction

Construction emissions have the potential to result in significant health impacts due to emissions of DPM, which is a TAC, and $PM_{2.5}$. To evaluate these potential impacts, a health risk assessment (HRA) was conducted using air dispersion modeling and exposure assumptions consistent with Bay Area Air District and Office of Environmental Health Hazard Assessment (OEHHA) guidance. The HRA quantifies potential cancer and non-cancer health risks to nearby sensitive receptors resulting from project-related construction emissions. Cancer risk is evaluated because long-term exposure to toxic air contaminants (TACs) may increase the likelihood of developing cancer, while non-cancer hazard impacts are evaluated to assess the potential for adverse health effects other than cancer. DPM is used as a surrogate TAC for evaluating cancer risk because diesel exhaust is a well-characterized source of TAC emissions and DPM serves as an indicator of the carcinogenic potency of diesel exhaust, consistent with OEHHA guidance. In addition, $PM_{2.5}$ concentrations were evaluated in accordance with Bay Area Air District guidance because elevated concentrations of fine particulate matter have been associated with adverse health effects, including respiratory and cardiovascular impacts, independent of cancer risk. As stated above, additional details on the methodologies and assumptions utilized in the HRA are contained within Appendix B.

Table 5 summarizes the Proposed Project's construction cancer risk, chronic non-cancer hazard index, and annual $PM_{2.5}$ concentration impacts at the maximally exposed receptor locations. As shown in Table 5, the estimated cancer risk, chronic non-cancer hazard, and $PM_{2.5}$ concentration impacts associated with project construction would not exceed the Bay Area Air District's applicable single source significance thresholds, and impacts would be less than significant.

Table 5: Estimated Health Risks and $PM_{2.5}$ Concentrations–Construction

Receptor	Cancer Risk (risk per million)	Chronic Non-cancer Hazard Index	Maximum Annual $PM_{2.5}$ ($\mu g/m^3$)
MEIR	5.57	<0.01	0.02
MEIW	0.35	<0.01	0.01
Thresholds of Significance	**10**	**1**	**0.3**

Receptor	Cancer Risk (risk per million)	Chronic Non-cancer Hazard Index	Maximum Annual $PM_{2.5}$ ($\mu g/m^3$)
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Notes:
$\mu g/m^3$ = micrograms per cubic meter
MEIR = Maximally Exposed Individual Resident
MEIW = Maximally Exposed Individual Worker
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter

The MEIR is a residence located at the northern border of the Project Site (receptor ID 1259).
The MEIW is a worker located at the southern border of the Project Site (receptor ID 1056).

Source: Appendix B.

Health Risk Assessment–Cumulative (Project Construction and Existing Sources)

The Bay Area Air District recommends conducting a cumulative HRA to assess the cumulative impacts of the Proposed Project's construction-related health risks and $PM_{2.5}$ concentrations in combination with existing sources of TACs and $PM_{2.5}$ concentrations within 1,000 feet of the Proposed Project at the most impacted nearby receptors, including the Maximally Exposed Individual Resident (MEIR) and the Maximally Exposed Individual Worker (MEIW).

The cumulative health risks for the MEIR and the MEIW are summarized in Table 6. As shown, health risks and $PM_{2.5}$ concentrations would be below the Bay Area Air District's cumulative thresholds of significance, and impacts would be less than significant.

Table 6: Cumulative Health Risks and $PM_{2.5}$ Concentrations–Construction

Sources and Receptors	Cancer Risk (per million)	Chronic Hazard Index	Maximum Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
MEIR			
Project Construction	5.57	<0.01	0.02
Stationary Sources	9	0.00	0.01
Roadways and Railways	19.99	0.05	0.33
Cumulative Health Risks MEIR	**34.56**	**<0.07**	**0.36**
MEIW			
Project Construction	0.35	<0.01	0.01
Stationary Sources	9	0.00	0.01

Sources and Receptors	Cancer Risk (per million)	Chronic Hazard Index	Maximum Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Roadways and Railways	41.82	0.09	0.60
Cumulative Health Risks MEIW	**51.17**	**<0.10**	**0.62**
Threshold of Significance	**100**	**10**	**0.8**
Threshold Exceedance?	**No**	**No**	**No**

Notes:
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
$\mu g/m^3$ = micrograms per cubic meter
MEIR = Maximally Exposed Individual Resident
MEIW = Maximally Exposed Individual Worker

Project and stationary source risks and hazards are for diesel exhaust, which does not have an established Acute Reference Exposure Level.

Source: Appendix B

Operation

Residential land uses are not expected to generate substantive DPM or TAC emissions during operational activity. The traffic generated by the Proposed Project would consist mostly of light-duty gasoline-powered or electric vehicles from residences, which are not associated with significant emissions of DPM or TACs. Therefore, operational-related activity would not expose sensitive receptors to substantial concentrations of air pollutants, and impacts would be less than significant.

Result in Other Emissions, Such as Odors

The ability to detect odors varies considerably among the population and is subjective. The Bay Area Air District does not have a recommended odor threshold for construction activities. However, the Bay Area Air District recommends operational screening criteria based on the distance between receptors and types of sources known to generate odors. Project construction would generate diesel exhaust and ROGs; however, these emissions would disperse rapidly from the Project Site and therefore would not create significant odors affecting a substantial number of people. As such, construction odor impacts would be less than significant.

Land uses typically associated with objectionable odors include wastewater treatment plants, compost facilities, landfills, solid waste transfer stations, fiberglass manufacturing facilities, paint/coating operations (e.g., auto body shops), dairy farms, petroleum refineries, asphalt batch plants, chemical manufacturing, and food manufacturing facilities, as shown in Table 5-4, Odor Screening Distances, in Chapter 5 Project-level Air Quality Impacts, 2022 Bay Area Air District CEQA Guidelines.[20] The

[20] Bay Area Air Quality Management District (Bay Area Air District). 2022. CEQA Guidelines, Chapter 5 Project-level Air Quality Impacts, Table 5-4, Odor Screening Distances.

Proposed Project would not involve any of the uses in Table 5-4 of the Bay Area Air District CEQA Guidelines. Minor sources of odors, such as exhaust from mobile sources, are not typically associated with numerous odor complaints but are known to have temporary and not significant odors. The Proposed Project would not result in other emissions (such as those leading to odors) during project construction or project operation, and therefore impacts would be less than significant.

Summary

As discussed in the above analysis, no significant effects from project-related air quality emissions would occur with implementation of the Proposed Project. Therefore, approval of the Proposed Project would not result in any significant effects relating to air quality and the Proposed Project would meet the criteria of CEQA Guidelines Section 15332(d) with respect to air quality.

Criteria Section 15332(d): Noise

Substantial Noise Increase in Excess of Standards

A Noise Technical Memorandum dated July 7, 2026, and revised September 4, 2026, was prepared for the Proposed Project and is included as Appendix C. Detailed calculations and modeling assumptions are provided therein. The findings of the analysis are summarized below.

Construction Noise

A significant impact would occur if implementation of the Proposed Project would expose persons working or residing at the Project Site or in the project vicinity to noise levels in excess of established standards. Section 8.08.025 of the City of Napa Municipal Code outlines allowable hours for construction activities, but it does not establish a quantitative noise limit or threshold for construction activities. Therefore, this analysis uses the noise limits established by the Federal Transit Administration (FTA) to identify the potential for impacts due to substantial temporary construction noise. The FTA identifies construction noise limits in the Transit Noise and Vibration Impact Assessment Manual.[21] During daytime hours, a significant temporary increase would be an increase in excess of the average daily noise level of 80 A-weighted decibels (dBA) 8-hour average equivalent noise/sound level ($L_{eq(8\text{-}hr)}$) as measured at a receiving residential land use and 85 dBA $L_{eq(8\text{-}hr)}$ as measured at a receiving commercial land use.

The closest noise-sensitive residential receptor to the Project Site is a residence located north across Reed Circle. This receptor would be located approximately 40 feet from the nearest construction footprint where multiple pieces of heavy construction equipment would potentially operate at the Project Site. At this distance, the reasonable worst-case calculated 8-hour average noise level would be 77 dBA $L_{eq(8\text{-}hr)}$ as measured at this nearest sensitive receptor. These calculated worst-case construction noise levels do not exceed the FTA's 80 dBA $L_{eq(8\text{-}hr)}$ threshold as measured at this nearest sensitive receptor.

[21] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

The closest commercial receptor to the Project Site is the Napa Valley Real Estate office building located directly south of the Project Site. The façade of this building would be located approximately 25 feet from the nearest construction footprint where multiple pieces of heavy construction equipment would potentially operate at the Project Site. At this distance, the reasonable worst-case calculated 8-hour average noise level would be 82 dBA $L_{eq(8\text{-}hr)}$ as measured at this nearest commercial receptor.

Therefore, these calculated reasonable worst-case construction noise levels would not exceed the FTA's average daily thresholds of 80 dBA $L_{eq(8\text{-}hr)}$ as measured at the nearest residential receptors, and 85 dBA $L_{eq(8\text{-}hr)}$ as measured at the nearest commercial receptors.

In addition, compliance with the City's restrictions on permissible hours for construction activity would preclude nighttime noise impacts. Therefore, the Proposed Project would not result in a substantial temporary increase in ambient noise levels at off-site sensitive receptors above established standards, and construction noise impacts on sensitive receptors in the project vicinity would be less than significant.

Operational/Stationary Source Noise Impacts

A significant impact would occur if operational noise levels generated by stationary noise sources at the Project Site would result in a substantial permanent increase in ambient noise levels in excess of any of the noise performance thresholds established by the City. According to the General Plan Safety and Noise Element, noise generation performance standards for non-transportation sources are 55 dBA equivalent noise/sound level (L_{eq}) and 75 dBA maximum noise/sound level (L_{max}) during daytime hours (7:00 a.m. to 10:00 p.m.) and 45 dBA L_{eq} and 65 dBA L_{max} during nighttime hours (10:00 p.m. to 7:00 a.m.) as measured at the Project Site property line (i.e., the property line of the noise source). The primary stationary noise sources associated with implementation of the Proposed Project would be new mechanical ventilation systems. Therefore, potential impacts associated with mechanical equipment are analyzed below.

Mechanical Equipment Operations

Implementation of the Proposed Project would include operation of new mechanical ventilation equipment. Noise levels for commercial-grade mechanical ventilation equipment systems range up to approximately 78 dBA L_{eq} at a distance of 3 feet.

The nearest sensitive receptor is the mobile home park residential land use located north of the Project Site. The distance from the proposed rooftop mechanical equipment to the project property line adjacent to this receptor is approximately 40 feet. At this distance, assuming minimal shielding from the proposed rooftop parapet, noise generated by typical rooftop mechanical ventilation equipment would attenuate to 42 dBA L_{eq} as measured at the Project Site property line nearest this residential land use.

These operational noise levels would not exceed the City's most stringent noise performance thresholds of 45 dBA L_{eq} and 65 dBA L_{max} during nighttime hours as measured at the property line of the noise source. In addition, these noise levels would also not exceed the documented existing daytime ambient noise levels in the project vicinity, which range from 48.3 dBA to 66.2 dBA L_{eq}.

Therefore, mechanical ventilation system operational noise levels would not result in a substantial permanent increase in noise levels in the project vicinity in excess of established standards. The impact of mechanical ventilation equipment operational noise levels on sensitive off-site receptors would be less than significant.

Operational/Mobile Source Noise Impacts

A significant impact would occur if project-generated traffic would result in a substantial increase in ambient noise levels compared with those that would exist without the Proposed Project.

Typically, a doubling of the Average Daily Traffic (ADT) hourly volumes on a roadway segment is required in order to result in an increase of 3 dBA in traffic noise levels, which is the lowest change that can be perceptible to the human ear in outdoor environments. Therefore, for the purposes of this analysis, a doubling of the existing ADT volumes would result in a substantial permanent increase in traffic noise levels.

Based on the Transportation Impact Study (TIS) prepared by W-Trans,[22] Byway East adjacent to the Project Site currently carries approximately 301 PM peak-hour trips, which would produce a minimum of 3,010 average daily trips under existing traffic conditions. According to the transportation analysis, the proposed project would generate 644 total trips per day or 51 PM peak-hour trips. As a result, the proposed project's net new trips would not double existing hourly or daily average trips on roadway segments adjacent to the project site. Therefore, the Proposed Project would not generate the doubling of traffic volumes typically associated with a 3 dBA increase in roadway traffic noise levels and would remain well below the threshold considered a substantial increase in traffic noise.

Accordingly, project-generated traffic would not result in a substantial permanent increase in ambient noise levels in the project vicinity, and traffic noise impacts would be less than significant.

Excessive Groundborne Vibration Levels

Construction Vibration Impacts

A significant impact would occur if the Proposed Project would generate groundborne vibration or groundborne noise levels in excess of established standards. Construction vibration impacts were evaluated using the FTA Transit Noise and Vibration Impact Assessment Manual criteria. [23]

Of the variety of equipment used during construction, the small vibratory rollers anticipated to be used in the paving of internal roadways would produce the greatest groundborne vibration levels. Small vibratory rollers produce groundborne vibration levels ranging up to 0.101 inches per second (in/sec) peak particle velocity (PPV) at 25 feet from the operating equipment.

The closest off-site structure is a garage located south of the Project Site, approximately 20 feet from the nearest construction footprint where a small vibratory roller would potentially operate. At this

[22] W-Trans. 2026. Transportation Impact Study for the Byway East Affordable Housing Project. Prepared for the City of Napa.

[23] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

distance, groundborne vibration levels could range up to 0.14 in/sec PPV from operation of a small vibratory roller. This is below the FTA's Construction Vibration Impact Criteria of 0.2 PPV for this type of building, a structure of nonengineered timber construction. As a result, construction of the Proposed Project would not expose nearby buildings to groundborne vibration levels in excess of their applicable FTA damage criteria, and this impact would be less than significant.

Operational Vibration Impacts

Implementation of the Proposed Project would not include any permanent sources that would expose persons in the project vicinity to groundborne vibration levels that could be perceptible without instruments at any receiving property line. Therefore, project operational groundborne vibration level impacts would be less than significant.

Excessive Noise Levels from Airport Activity

A significant impact would occur if the Proposed Project would expose people residing or working in the project area to excessive noise levels for a project located within the vicinity of a private airstrip or an Airport Land Use Compatibility Plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport.

The nearest public airport to the Project Site is Napa County Airport. The Project Site is located approximately 8.05 miles north of Napa County Airport. At this distance, the Project Site is outside the 65 dBA Community Noise Equivalent Level (CNEL) noise contour and is not located within a designated Airport Land Use Compatibility Plan. Therefore, implementation of the Proposed Project would not expose people residing or working in the project area to excessive noise levels, resulting in no impact.

Criteria Section 15332(d): Traffic

The Project Site is accessible by multiple modes of transportation. Pedestrian access is available via existing sidewalks along portions of Byway East and Wine Country Avenue, and the Proposed Project would include a new sidewalk along the project frontage to connect with the surrounding pedestrian network. Bicycle facilities in the vicinity of the Project Site are limited; however, Class II bicycle lanes are located along Solano Avenue west of SR-29. Transit service is provided by VINE Transit, which is operated by the Napa Valley Transit Authority. Route E includes a stop on Byway East approximately 150 feet from the project site, while Route 10 serves stops on Solano Avenue within walking distance of the site via existing pedestrian facilities. These routes provide connections to downtown Napa, Calistoga, and other destinations throughout Napa County.

A TIS was prepared by W-Trans on September 8, 2026, for the proposed project to evaluate potential impacts related to circulation, vehicle miles traveled (VMT), safety, and emergency access (Appendix D). The TIS estimated that the proposed 178-unit affordable housing development would generate approximately 644 net new daily trips, including 40 AM peak-hour trips and 51 PM peak-hour trips. The analysis evaluated operations at the intersections of SR-29/Wine Country Avenue and Wine Country Avenue/Byway East. Under Existing Plus Project and Future Plus Project conditions, both intersections would continue to operate at acceptable levels of service, and the addition of project-generated traffic would not change the level of service at either intersection.

A VMT assessment was also conducted consistent with CEQA Guidelines Section 15064.3 and City thresholds. The Project Site has an unadjusted VMT rate of 12.24 VMT per capita, slightly above the City's significance threshold of 12.05 VMT per capita. However, because the Proposed Project consists entirely of affordable housing units, a VMT reduction factor associated with affordable housing developments was applied. The adjusted project VMT was calculated at 9.02 VMT per capita, which is below the City's significance threshold. Therefore, the TIS concluded that the Proposed Project would result in a less than significant VMT impact.

The TIS also evaluated transportation safety and emergency access. The Proposed Project would be served by two driveways on Byway East. The TIS determined that available sight distance is approximately 170 feet at the north driveway and 350 feet at the south driveway, exceeding the 150-foot minimum stopping sight distance applied from the Caltrans Highway Design Manual. Accordingly, adequate sight distance would be available at both Project driveways.

The TIS determined that Project traffic would not warrant a left-turn lane on Byway East at the Proposed Project driveways. Although some dedicated turn-lane queues at SR-29/Wine Country Avenue would exceed or reach available storage under Existing and Future conditions, the addition of Project-generated traffic would increase those queues by less than one (1) vehicle length and would not create a new hazardous or otherwise unacceptable condition.

The TIS determined that the proposed driveways and internal circulation system shown on the site plan are consistent with applicable California Fire Code dimensional requirements for aerial fire apparatus access. The Proposed Project would be required to comply with all applicable City fire-access standards, and final determination regarding the adequacy of fire apparatus access and emergency vehicle circulation would be made by the Napa Fire Department during project review and permitting. Accordingly, the Proposed Project would provide adequate emergency access.

Therefore, approval of the Proposed Project would not result in significant transportation impacts related to multimodal circulation, VMT, transportation safety, or emergency access. Accordingly, the Proposed Project meets the criteria of CEQA Guidelines Section 15332(d) with respect to traffic.

Criteria Section 15332(d): Water Quality

Construction of the Proposed Project would involve grading, excavation, utility installation, and other earth-disturbing activities that have the potential to temporarily affect water quality through erosion, sedimentation, and the transport of pollutants in stormwater runoff. Construction-related pollutants could include sediment, construction debris, fuels, oils, concrete washout, and other materials that could enter nearby storm drain facilities during rainfall events. However, construction activities would be required to comply with applicable federal, State, and local regulations pertaining to water quality protection, including the National Pollutant Discharge Elimination System (NPDES) Construction General Permit. Compliance with the Construction General Permit would require preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP), which would identify erosion and sediment control measures, good housekeeping practices, spill prevention procedures, and other BMPs designed to minimize pollutant discharges from the project site.

Implementation of the required SWPPP and associated BMPs would reduce the potential for construction-related pollutants to enter storm drain facilities or receiving waters and would ensure compliance with applicable water quality standards and waste discharge requirements. In addition, any dewatering activities, if required during construction, would be conducted in accordance with applicable NPDES permit requirements and Regional Water Quality Control Board (RWQCB) regulations to prevent adverse effects on surface water or groundwater quality. Therefore, potential construction-related impacts on water quality would be less than significant.

Operation of the Proposed Project would introduce new impervious surfaces, which could increase the volume and rate of stormwater runoff if not properly managed. Runoff from developed residential uses may contain common urban pollutants such as sediment, trash, nutrients, hydrocarbons, and trace metals that could be conveyed to the municipal storm drain system during storm events. However, the Proposed Project would be required to comply with the City's stormwater management requirements and applicable Municipal Separate Storm Sewer System (MS4) permit provisions. Consistent with these requirements, the Proposed Project would incorporate low impact development (LID) features and stormwater treatment measures designed to retain, infiltrate, and treat runoff prior to discharge.

The Proposed Project incorporates a sitewide stormwater drainage system that organizes runoff into multiple DMAs generally corresponding to building, parking, and circulation areas. Stormwater runoff from impervious surfaces would be conveyed through surface flow and on-site drainage improvements to distributed bioretention facilities located throughout the site. The Proposed Project’s stormwater control plan identifies eight DMAs and includes sizing calculations demonstrating that the primary treatment areas meet or slightly exceed the required water quality treatment area necessary to comply with applicable water quality design criteria. These bioretention facilities would be integrated along the project perimeter and within internal landscaped areas adjacent to parking and drive aisles, allowing runoff to be captured, filtered, and infiltrated prior to discharge. Although one small DMA would remain untreated, the overall stormwater management system is designed to treat runoff from the substantial majority of impervious surfaces and maintain post-development water quality through dispersed, landscape-based treatment features. In addition, the Proposed Project would connect to existing stormwater drainage facilities within Byway East.

The Proposed Project includes implementation of a Water Quality Management Plan (WQMP) and the aforementioned associated stormwater treatment facilities to manage post-construction runoff. These features would reduce pollutant loading, promote infiltration where feasible, and control runoff rates in accordance with City and RWQCB requirements. Compliance with these regulatory requirements would ensure that operation of the Proposed Project would not violate water quality standards, degrade receiving waters, or conflict with waste discharge requirements.

Accordingly, because the Proposed Project would be subject to applicable NPDES permitting requirements, City stormwater regulations, SWPPP requirements during construction, and post-construction stormwater treatment and LID measures during operation, the Proposed Project would not violate any water quality standards or waste discharge requirements.

Additionally, there are no new or unusual circumstances pertaining to aquatic resources on-site, specifically wetlands, under Section 15300.2(c). Based on the National Wetlands Inventory and the National Hydrology Dataset, there are no wetlands or aquatic features within the Project Site. Furthermore, during the biological field survey, no aquatic features or potential aquatic features were observed within or adjacent to the Project Site. The Project Site lies within the Napa River Watershed and the closest aquatic feature, Salvador Creek, is approximately 0.1 mile south of the Project Site (Appendix A). Impacts related to water quality would be less than significant. Accordingly, the Proposed Project meets the criteria of CEQA Guidelines Section 15332(d) with respect to water quality.

Criteria Section 15332(e): Utilities and Public Services

The Project Site is situated in an urban area already served by all necessary municipal utilities (i.e., water, wastewater, stormwater, solid waste) and public services (i.e., fire, police, schools). The proposed project would connect to existing sanitary sewer, water, and stormwater lines beneath Byway East.

According to the California Department of Finance (DOF), the City's current population is approximately 77,803 persons as of January 1, 2026, and the City has an average of 2.48 persons per household.[24] As such, the addition of 178 residential units would be expected to generate approximately 442 new residents.[25] This is approximately 0.5 percent of the current population, which would have a negligible impact on utility and public service capacity. Therefore, the Proposed Project can be adequately served by all required utilities and public services.

Furthermore, as discussed above, the Proposed Project would be required to adhere to all goals and policies outlined in the General Plan, which ensures provision of adequate resources for the response of health, fire, and police emergencies, and implementation of programs and regulations to improve the efficiency of fire and police services. Therefore, approval of the Proposed Project would not result in any significant effects relating to public services and utilities, and the Proposed Project meets the criteria of CEQA Guidelines Section 15332(e).

Conclusion

The Proposed Project meets the criteria for a Class 32 exemption, including consistency with the General Plan and Zoning regulations, location within city limits, limited size, absence of significant environmental effects, and availability of public services and utilities.

[24] California Department of Finance (DOF). 2026. E-5 Population and Housing Estimates for Cities, Counties, and the State, 2020-2026. Website: https://dof.ca.gov/forecasting/demographics/estimates/e-5-population-and-housing-estimates-for-cities-counties-and-the-state-2020-2026/. Accessed July 30, 2026.

[25] 2.48 persons * 178 residential units = 441.44 persons

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3 - ANALYSIS OF POTENTIAL EXCEPTIONS TO A CATEGORICAL EXEMPTION

In addition to investigating the applicability of CEQA Guidelines Section 15332 (Class 32), this CEQA document also assesses whether any of the exceptions to qualifying for the Class 32 categorical exemption for an Infill Project are present. The following analysis compares the criteria of CEQA Guidelines Section 15300.2 (Exceptions) to the Proposed Project.

Criterion 15300.2(a): Location

This exception only applies to Class 3, 4, 5, 6, and 11 exemptions. As the Proposed Project is being evaluated for exemption pursuant to Class 32, this exception does not apply.

Criterion 15300.2(b): Cumulative Impact

CEQA Guidelines Section 15300.2(b) provides that a categorical exemption may not be used where there is a reasonable possibility that the cumulative impact of successive projects of the same type in the same place, over time, would be significant. The inquiry is not whether other development projects exist or may occur in the surrounding area, but whether the Proposed Project's incremental contribution to a cumulative impact would be cumulatively considerable. Because the Proposed Project involves development of a single infill site, there are no known successive projects of the same type occurring in the same place that could combine with the Proposed Project to create a significant cumulative impact. The mere presence of other residential development projects elsewhere in the City does not, by itself, establish the type of successive-project scenario contemplated by CEQA Guidelines Section 15300.2(b).

The Project Site is predominantly surrounded by residential uses and is consistent with the development anticipated in the General Plan. According to the 2023–2031 Housing Element Update, the City has been allocated a Regional Housing Needs Assessment (RHNA) of 2,669 units.[26] The Proposed Project is residential in nature and would contribute 178 units to the housing needs of the City. In addition to the Proposed Project, other reasonably foreseeable development projects in the vicinity include residential and lodging uses, such as the nearby Zinfandel Subdivision Project and the 4175 Solano Avenue Hotel Project. These projects would occur within an area planned for urban growth and development and would be subject to the City's General Plan, zoning regulations, and applicable development standards. While the Proposed Project would incrementally contribute to growth in the area, it would develop a Project Site designated and planned for residential development and would not result in land use incompatibilities or conflicts beyond those anticipated and addressed through the

[26] City of Napa. 2023. City of Napa, 2023-2031 Housing Element. Website: https://www.cityofnapa.org/DocumentCenter/View/12413/City-of-Napa-2023-2031-Housing-Element-PDF?bidId=. Accessed July 30, 2026.

City's planning framework. Accordingly, the Proposed Project's contribution to cumulative land use and planning impacts would not be cumulatively considerable.

In addition to land use and planning, review of the remaining CEQA topical areas demonstrates that the Proposed Project would not result in cumulatively considerable impacts. There is no evidence that the Proposed Project would generate project-specific significant impacts related to aesthetics, agriculture, air quality, biological resources, cultural resources, energy, geology and soils, GHG emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, transportation, utilities, or wildfire. Pursuant to State Density Bonus Law provisions, the Proposed Project would be consistent with the land use density established by the General Plan, would comply with existing regulations and City policies, and would not have any project-specific significant impacts. Therefore, its contribution, if any, to cumulative impacts would not be cumulatively considerable. Additionally, the Project Site would be served by existing urban infrastructure, including utilities and public services. Furthermore, as shown in the analysis above for Class 32 conditions (a) through (e), the Proposed Project would not result in any adverse impacts and, therefore, would not have the potential to significantly contribute to cumulative impacts related to those environmental issues. Because the Proposed Project would not cause a significant impact in any topical area, it would not contribute to a cumulatively considerable effect when viewed in connection with past, present, or reasonably foreseeable future development. Accordingly, the exception under CEQA Guidelines 15300.2(b) does not apply to the Proposed Project.

Criterion 15300.2(c): Significant Effect Due to an Unusual Circumstance

The Proposed Project represents typical infill development consistent with the land use designation for the Project Site. Construction activities would not involve any unusual or highly impactful activities (e.g., blasting) that could result in significant environmental effects. Implementation of the Proposed Project would be subject to City review and permitting requirements, including compliance with building and safety codes. No unusual site conditions or project characteristics have been identified that would create a reasonable possibility of a significant environmental effect. Furthermore, there are no new or unusual circumstances pertaining to land conservation or entitlements, under Section 15300.2(c). The Project Site is not located within the planning area of an adopted Habitat Conservation Plan (HCP) or Natural Community Conservation Plan (NCCP). No approved local, regional, or State HCP plans apply to the Project Site. The Project Site does not contain unique features that would exacerbate impacts, and implementation of the Proposed Project would not introduce unusual circumstances that could result in significant environmental effects. Accordingly, there is no substantial evidence that the Proposed Project would result in a significant environmental effect, and the exception under CEQA Guidelines Section 15300.2(c) does not apply to the Proposed Project.

Criterion 15300.2(d): Scenic Highway

The closest officially designated State Scenic Highway to the Project Site is a portion of SR-12 located approximately 9.17 miles to the west.[27] As such, the Project Site is not within a highway officially designated as a State Scenic Highway, nor is it visible from the nearest designated highway due to the distance and intervening development. Thus, the Proposed Project would not have the potential to damage scenic resources within a highway designated as a State Scenic Highway. Accordingly, the exception under CEQA Guidelines Section 15300.2(d) does not apply to the Proposed Project.

Criterion 15300.2(e): Hazardous Waste Sites

The Project Site is not listed as a hazardous materials site by the GeoTracker database, which contains sites compiled pursuant to Government Code 65962.5.[28] Additionally, no portion of the Project Site is included on the list of hazardous waste sites (Cortese List) compiled by the California Department of Toxic Substances Control (DTSC) pursuant to Government Code Section 65962.5.[29] Therefore, the excavation of soils is not anticipated to release known hazardous materials. Further, should any potentially hazardous materials be discovered during construction, the transport, removal, and disposal of potentially hazardous materials would be conducted by a permitted and licensed service provider consistent with federal, State, and local requirements including the EPA, the DTSC, the California Occupational Safety and Health Administration (Cal/OSHA), the California Department of Transportation (Caltrans), the Resource Conservation and Recovery Act (RCRA), and the City. Accordingly, the exception under CEQA Guidelines 15300.2(e) does not apply to the proposed Project.

Criterion 15300.2(f): Historical Resources

Section 15300.2(f) states that a categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historic resource. For purposes of exception 15300.2(f), historical resources include both built environment and archaeological/cultural resources. In accordance with existing regulations, existing federal and State requirements would be required to be implemented to avoid impacts resulting from inadvertent discoveries of cultural resources and human remains.

A Phase I Cultural Resources Assessment and Historic Resources Evaluation (Phase I CRA/HRE) was conducted by FCS, dated July 15, 2026, and revised September 4, 2026 (Appendix E). The findings of the Phase I CRA/HRE are summarized below.

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[27] California Department of Transportation (Caltrans). 2026. State Scenic Highway Viewer. Website: https://experience.arcgis.com/experience/47e2009986264718a5a13a2c81382774. Accessed July 30, 2026.

[28] California State Water Resources Control Board (State Water Board). 2026. GeoTracker. Website: https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=4124+Byway+East%2C+Napa. Accessed August 3, 2026.

[29] California Department of Toxic Substances Control (DTSC). 2026. EnviroStor. Website: https://www.envirostor.dtsc.ca.gov/public/map/?global_id=60003205. Accessed July 30, 2026.

Records search results from the Northwestern Information Center (NWIC) indicate that one (1) historic-era resource has been recorded within the 0.5-mile search radius surrounding the Project Site. No cultural resources (pre-contact or historic) are located within the Project Site boundaries. Additionally, six (6) survey reports are on file within the 0.5-mile radius; no studies address the current Project Site. This indicates that the Project Site has not been previously surveyed for cultural resources. PastFinder results indicate that the Project Site is located within an area of low archaeological sensitivity

The Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search reported a positive result for Native American cultural resources in the immediate Project Site. FCS contacted nine (9) Tribal representatives on June 16, 2026, to ensure that all Native American knowledge and concerns over potential Tribal Cultural Resources (TCRs) that may be affected by implementation of the Proposed Project are addressed. No responses have been received to date.

The pedestrian field survey produced negative results for the presence of pre-contact archaeological resources within the Project Site. However, one (1) single-family residence (4124 Byway East) over 50 years old and one (1) single-story commercial building (4122 Byway East) over 50 years old were observed during the survey. These buildings had not been previously evaluated by the California Register of Historical Resources (CRHR) for eligibility and potential historic significance under CEQA. The buildings were subsequently recorded and evaluated for historic significance on the appropriate set of California Department of Parks and Recreation (DPR) forms. The evaluation determined that the buildings appeared not eligible under all State and local designation criteria due to a lack of significant architectural merit, cultural value, educational value, and historic value. The analysis of buried site potential determined that the Project Site is situated upon Late Pleistocene deposits alluvial fan, stream terrace, basin, and channel deposits (Qpa) and is approximately 620 feet north of Salvador Creek. This indicates a low to moderate potential for the inadvertent discovery of cultural resources during ground-disturbing activities.

Based on the results of the records searches, pedestrian survey, and Historic Resources Evaluation the Proposed Project would not have an adverse effect on historical resources. The Proposed Project would be required to comply with State and federal laws in the event of an inadvertent discovery of Native American remains or archaeological artifacts. Accordingly, the Proposed Project would not cause a substantial adverse change in the significance of a historical resource. As such, the Proposed Project would not have an adverse impact on a historical resource (historic or pre-contact resource) and the exception under CEQA Guidelines 15300.2(f) does not apply to the Proposed Project.

Additionally, the applicant would voluntarily implement the following Phase I CRA recommendation for construction personnel Worker Environmental Awareness Program (WEAP) training prior to construction as a BMP to instruct construction personnel about how to identify cultural resources and appropriate procedures to implement if any resources are discovered during ground disturbance:

- Prior to the initiation of construction activities, all construction personnel conducting ground disturbance at the site shall be provided a Worker Environmental Awareness Program (WEAP) cultural resources “tailgate” training. The training shall include visual aids, a discussion of

applicable laws and statutes relating to archaeological resources, types of resources that may be found within the project site, and procedures to be followed in the event such resources are encountered. The training shall be conducted by an Archaeologist who meets the Secretary of the Interior's Professional Qualification Standards (PQS) for archaeology and in collaboration with a culturally affiliated Native American monitor.

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4 - CONCLUSION

The analysis contained herein demonstrates that the Proposed Project is eligible for a Class 32 Exemption. The proposed project is consistent with the General Plan land use designation and zoning and is located on an incorporated Project Site of no more than 5 acres surrounded by urban uses. The Project Site has no value as habitat for endangered, rare, or threatened species. With implementation of applicable General Plan policies and compliance with the City's Municipal Code detailed in this document, approval of the Proposed Project would not result in any significant effects relating to traffic, noise, air quality, or water quality, and the Project Site can be adequately served by all required utilities and public services. Therefore, the Proposed Project meets the criteria of CEQA Guidelines Section 15332.

The Proposed Project is not disqualified by any of the exceptions under CEQA Guidelines Section 15300.2. It would not result in cumulative impacts or project-specific significant effects. Furthermore, the Proposed Project would not impact State Scenic Highway resources and is not located on an active list compiled pursuant to Section 65962.5 of the Government Code, nor would it cause a substantial adverse change in a historical resource. Therefore, the exceptions under CEQA Guidelines Section 15300.2 do not apply to the Proposed Project.

Therefore, based on the analysis presented herein, the Proposed Project qualifies for exemption from CEQA under the Infill Development Categorical Exemption (CEQA Guidelines § 15332). Accordingly, the Proposed Project is exempt from further environmental review under CEQA.

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Class 32 Memorandum Appendices A-D

Appendix A: Biological Resources Assessment (P.59)
Appendix B: Air Quality, Greenhouse Gas, and Energy Analysis (P.75)
Appendix C: Noise Impact Analysis (P.319)
Appendix D: Transportation Impact Study (P.349)

Appendix A:

Biological Resource Survey Memorandum

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Stantec

Memo

To:	Laura Keirstead Cypress Equity Investments 12121 Wilshire Blvd, Los Angeles, CA	From:	David Tange Associate Biologist
Project/File:	4122 Byway East, Napa	Date:	October 16, 2025

Reference: 4122 Byway East, Napa - Biological Resource Survey Memorandum

1 Project Location

The proposed 4122 Byway East, Napa Development Project (Project) area is located in Napa, California (see Appendix A, Figure 1), across two privately owned Assessor's Parcel Numbers [APNs]: 038-063-001 and 038-063-007. The project area is currently occupied by an RV Repair Shop and storage area, as well as a single residence. The surrounding vicinity is comprised of residential properties, commercial properties, and transportation infrastructure. City roads and Highway 29 occur on the west of the Project area, commercial businesses operate out of two buildings adjacent to the southwest corner of the Project area, and residential properties comprise the rest of the area bordering the Project. The approximately 2.6-acre Project area is also referred to as the Biological Study Area (BSA).

2 Methods

A reconnaissance biological survey and a habitat assessment were conducted during daylight hours on September 23, 2025, by Stantec Consulting Services (Stantec) biologist David Tange. The BSA was surveyed on foot by walking meandering transects. Plants were identified based on professional knowledge and experience and/or by using keys, descriptions, and illustrations in Jepson Flora Project, 2025. Wildlife species, including birds, were identified by sight, sound, or their sign.

Prior to the survey, a preliminary literature review of readily available resources was performed. A query of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) was conducted using the RareFind 5 Internet application tool for a search area encompassing the BSA and a 2-mile buffer (CNDDB 2025). For species with potential to occur, additional information was reviewed within CalFlora (2025) and California Native Plant Society online inventory (CNPS 2025). Aerial imagery (Google Earth 2025) was reviewed ahead of the reconnaissance survey as well as US Fish and Wildlife Service (USFWS) designated critical habitat layers (USFWS 2025a), USFWS National Wetlands Inventory (USFWS 2025b), and US Geological Survey National Hydrology Dataset (USGS 2025).

3 Results

3.1 Habitat Assessment

The technical approach for vegetation alliance classification system described in *A Manual of California Vegetation,* Online Edition (CNPS 2025b) could not be used for this project due to the prevalence of ornamental vegetation and graveled areas. Therefore, a more general classification was used, resulting in the whole BSA classified as Disturbed/Developed (Appendix A-Figure 2). A description of the land cover type within the BSA is provided below. Representative photographs are provided in Appendix B.

Disturbed/Developed

Disturbed/developed lands within the BSA are characterized due to either having an absence of vegetation due to anthropogenic causes, or containing vegetation that was deliberately planted for aesthetics and typically containing ornamental species. Within the BSA, most of the area is graveled with some smaller concrete pads. Vegetation growing out of the gravel areas in the BSA including one coast redwood (*Sequoia sempervirens*), one coast live oak (*Quercus agrifolia*) and then Himalayan blackberry (*Rubus armeniacus*), willowherb sp (E*pilobium sp.*), and flax-leaved horseweed (*Erigeron bonariensis*) along the margins; each of the above species comprised approximately less than one percent of the total size of the BSA.

Also within the BSA, a small patch of landscaped vegetation was present in front yard of the residence and contained a combination of planted trees, lawn, and a few scattered ornamental shrubs. Additional trees such as coast live oak, valley oak (*Quercus lobata*), red ironbark (*Eucalyptus sideroxylon*), fig tree (*Ficus sp.*), various palm species, and other ornamental trees are scattered along the margins originating outside the BSA but overhang the Project area.

3.1.2 Plants and Wildlife Observed

The reconnaissance survey resulted in the documentation of ten plant species as presented in Table 1 and three wildlife species as presented in Table 2. No special-status species were observed during the survey.

Table 1. Plant Species Observed in the BSA

Scientific Name	Common Name	Origin/Status[1]
Epilobium sp.	Willowherb sp.	Native
Erigeron bonariensis)	Flax-leaved horseweed	Non-native
Eucalyptus sideroxylon	Red ironbark	Non-native
Ficus sp.	Fig tree	Non-native
Quercus agrifolia	Coast live oak	Native
Quercus lobata	Valley oak	Native
Rubus armeniacus	Himalayan blackberry	Non-native, Cal-IPC Rating High
Sequioa sempervirens	Coast redwood	Native
-	Lawn	Non-native

-	Ornamental shrubs	Non-native

Table 2. Wildlife Species Observed in the BSA

Scientific Name	Common Name	Origin/Status[1]
Birds		
Aphelocoma californica	California scrub jay	Native
Zenaida macroura	Mourning dove	Native
Mammals		
Sciurus niger	Fox squirrel	Non-native

3.1.3 Special-Status Biological Resources

Special-status taxa include those listed as rare, threatened, or endangered under the Federal Endangered Species Act or California Endangered Species Act, as well as taxa proposed for such listing, taxa that are listed as Species of Special Concern by CDFW, plants with California Rare Plant Rank (CRPR) 1-4, and other taxa that have been identified by United States Fish and Wildlife Service, CDFW, or local jurisdictions as unique or rare. No special-status plant or wildlife species were observed within the BSA during the survey.

Based on the CNDDB record search, the following species have known occurrences within 2 miles of the BSA: Greene's narrow-leaved daisy (*Erigeron greenei*) and northwestern pond turtle (*Actinemys marmorata*) (see Appendix A - Figure 3). Due to the highly disturbed nature of the BSA, the BSA does not provide suitable habitat for either species. Additionally, the BSA does not provide a migratory corridor for northwestern pond turtle, nor is there suitable upland or aquatic habitat in the vicinity for an individual to disperse from. Based on the disturbed/developed and urban land cover types, no special-status plant and wildlife species were determined to have potential to occur within and/or near the BSA. Additionally, there is no USFWS designated critical habitat that overlaps the BSA.

3.1.4 Migratory Birds

The project area provides potential nesting habitat for raptors and other migratory birds protected under the Migratory Bird Treaty Act or Fish and Game Code. Removal of vegetation during the typical nesting season (February 1 through September 1) could have an impact on nesting migratory birds. If vegetation removal occurs during the typical nesting season, the project will implement avoidance and minimization measures to avoid impacts to migratory nesting birds. These measures will include conducting a pre-construction nesting bird survey during the nesting season to document any nests on the project site and implementation of protective buffers around documented nests during construction to minimize disturbance to nesting birds during construction.

3.1.5 Aquatic Resources

Based on the National Wetlands Inventory and the National Hydrology Dataset, there are no wetlands or aquatic features within the BSA. Furthermore, during the reconnaissance survey, no aquatic features or

potential aquatic features were observed within or adjacent to the BSA. The BSA lies within the Napa River Watershed and the closest aquatic feature, Salvador Creek, is 0.1 miles south of the BSA (see Appendix A - Figure 4).

4 References

CDFW. 2025a. Rarefind 5. California Natural Diversity Database (CNDDB). California Natural Communities List. Biogeographic Data Branch, California Department of Fish and Wildlife. https://www.wildlife.ca.gov/Data/CNDDB/Maps-and-Dat. Accessed September 2025.

California Invasive Plant Council (Cal-IPC). 2025. The Cal-IPC Inventory. California Invasive Plant Council. Available online: https://www.cal-ipc.org/. Accessed September 2025.

Calflora. 2025. A non-profit database providing information on wild California plants. Berkeley, CA https://www.calflora.org/search.html. Accessed September 2025.

California Native Plant Society (CNPS). 2025. Inventory of Rare And Endangered Plants (Online Edition, V9.5.1). Sacramento, California. http://www.rareplants.cnps.org. Accessed September 2025.

CNPS. 2025b. A Manual of California Vegetation, Online Edition. Available: http://vegetation.cnps.org. Accessed September 2025.

Google Earth. 2025. Map showing the Study Area. Google Earth, 2025. earth.google.com/web/. Accessed September 2025.

Jepson Flora Project (eds.). 2025. Jepson eFlora. https://ucjeps.berkeley.edu/eflora/. Accessed September 2025.

USFWS (United Stated Fish and Wildlife Service). 2025a. Critical Habitat for Threatened & Endangered Species. https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77. Accessed September 2025.

USFWS. 2025b. USFWS National Wetlands Inventory (NWI). https://www.fws.gov/wetlands/. Accessed September 2025.

USGS (U.S. Geological Survey). 2025. National Hydrography Dataset Plus V2. Available: https://www.epa.gov/waterdata/nhdplus-national-hydrography-dataset-plus. Accessed September 2025.

Reference: **4122 Byway East, Napa - Biological Resource Survey Memorandum**

Regards,

Stantec Consulting Services Inc.



David Tange
Associate Biologist
Mobile: 707-835-3639
david.tange@stantec.com

stantec.com

Attachment: [Appendix A, Figure and Appendix B, Photolog]

APPENDIX A

Figures





Project Location

0 1,000 2,000 Feet

(At original document size of 8.5x11)
1:24,000

N

Stantec

Notes

1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet
2. Data Sources: Stantec 2025.
3. Background: World Street Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
World Ocean Base: Esri, GEBCO, Garmin
World Ocean Reference: Sources: Esri, TomTom, Garmin, GEBCO, National Geographic, NOAA, and the GIS User Community

Project Location
4122 Byway East, Napa, CA

Prepared by DL on 2025-10-01
TR by SET on 2025-10-01
IR by DT on 2025-10-01

Client/Project 185807048
Cypress Equity Investments
4122 Byway East, Napa Development Project
Biological Resource Survey Memorandum

Figure No.
1

Title
Project Location

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Project Boundary

Land Cover Type

Developed/ Disturbed

0 50 100 Feet

(At original document size of 8.5x11)
1:1,200

N

Stantec

Notes

1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet
2. Data Sources: Stantec 2025.
3. Background: Hybrid Reference Layer (US Edition): Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community
World Imagery: The County of Napa, Yolo County, Maxar, Microsoft

Project Location
4122 Byway East, Napa, CA

Prepared by DL on 2025-10-01
TR by SET on 2025-10-01
IR by DT on 2025-10-01

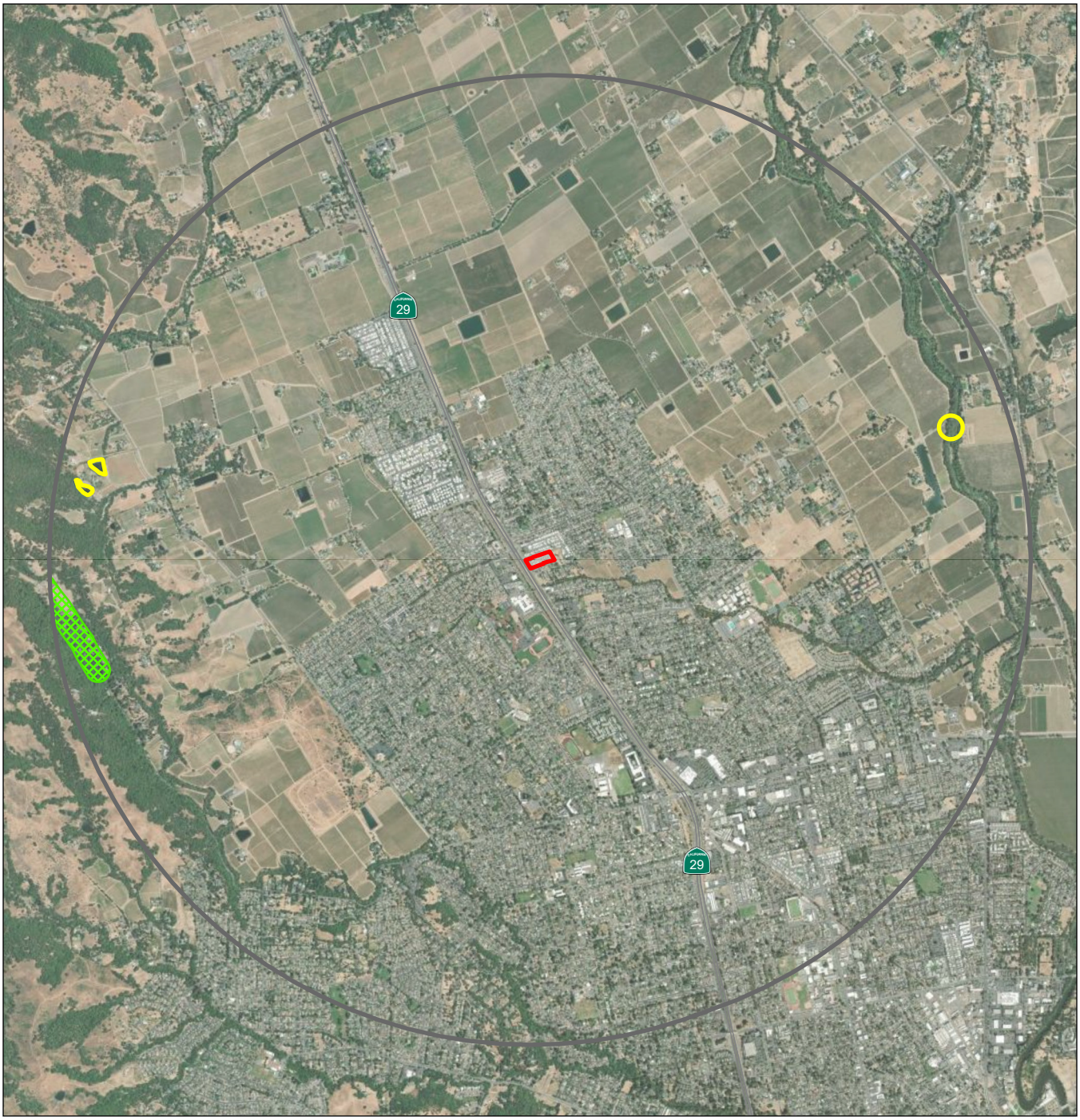
Client/Project 185807048
Cypress Equity Investments
4122 Byway East, Napa Development Project
Biological Resource Survey Memorandum

Figure No.
2

Title
Land Cover Types

U:\18581_proposal\185807048_4122BywayENapa_Project\ProMaps\ProMaps.aprx Revised: 2025-10-15 By: dalaw

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Project Boundary
2-mile Search Radius

2-mile CNDDB Results

Plants

Greene's narrow-leaved daisy

Wildlife

northwestern pond turtle

0 1,700 3,400 Feet

(At original document size of 8.5x11)
1:40,800

N

Stantec

Project Location
4122 Byway East, Napa, CA

Prepared by DL on 2025-10-01
TR by SET on 2025-10-01
IR by DT on 2025-10-01

Client/Project
185807048
Cypress Equity Investments
4122 Byway East, Napa Development Project
Biological Resource Survey Memorandum

Figure No.
3

Title
CNDDB Results - Plants & Wildlife

Notes
1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet
2. Data Sources: Stantec 2025. CNDDB data from CDFW 2025.
3. Background: World Imagery: Yolo County, Earthstar Geographics

U:\185807048_4122BywayENapa_Project\ProMaps\ProMaps.aprx Revised: 2025-10-01 By: dalaw

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Project Boundary

National Hydrography Dataset

Canal/ Ditch

Stream/ River

National Wetlands Inventory

Riverine

0 100 200 Feet

(At original document size of 8.5x11)
1:2,400

N

Stantec

Project Location
4122 Byway East, Napa, CA

Prepared by DL on 2025-10-01
TR by SET on 2025-10-01
IR by DT on 2025-10-01

Client/Project
185807048
Cypress Equity Investments
4122 Byway East, Napa Development Project
Biological Resource Survey Memorandum

Figure No.
4

Title
National Wetlands Inventory and National Hydrography Dataset

Notes
1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet
2. Data Sources: Stantec 2025. NHD data from USGS 2024. NWI data from USFWS 2025.
3. Background: World Imagery: Yolo County, Maxar Hybrid Reference Layer (US Edition): Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

U:\18581_proposal\185807048_4122BywayENapa_Project\ProMaps\ProMaps.aprx Revised: 2025-10-01 By: dalaw

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APPENDIX B

Photolog

Reference: **4122 Byway East, Napa - Biological Resource Survey Memorandum**



Location: Northwest corner of the BSA facing the residence.

Photo 1. Photograph of the area around the residence. Parking area is mostly graveled.



Location: Middle portion of the BSA in the parking/storage area.

Photo 2. Representative photograph of the graveled parking/storage area.



Location: Southwester corner of the BSA facing the RV shop.

Photo 3. Photograph of the graveled site and RV Shop buildings.



Location: Western edge of the BSA.

Photo 4. Another representative photograph of the graveled parking/storage area.

Reference: **4122 Byway East, Napa - Biological Resource Survey Memorandum**



Location: Northeastern corner of the BSA.

Photo 5. View of the eastern fenceline and the trees overhanging the BSA.



Location: Eastern part of the BSA.

Photo 6. Another representative photograph of parking/storage area.



Location: Southeastern part of the BSA.

Photo 7. View of the southeastern corner of the BSA with overhanging trees. The corner is the main spot blackberry was present.



Location: Southeastern part of the BSA.

Photo 8. Photograph the southern fenceline with ornamental trees overhanging the BSA.

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Appendix B:

Air Quality, Greenhouse Gas Emissions, and Energy Analysis Memorandum

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FCS
An ADEC Innovation

Memorandum

Date: July 7, 2026 (Revised September 9, 2026)

To: Emma Loos, CEIM Development LLC

From: Philip Ault, Director of Noise and Air Quality
Jackie Winkel, Senior Air Quality Scientist

Subject: Air Quality, Greenhouse Gas Emissions, and Energy Analysis for the Proposed Byway East Affordable Housing Project in the City of Napa, California

FirstCarbon Solutions (FCS) prepared an air quality, greenhouse gas (GHG) emissions, and energy analysis consistent with the requirements of the California Environmental Quality Act (CEQA) Guidelines, the recommendations of the Bay Area Air Quality Management District (Bay Area Air District), and the City of Napa (City) policies. This memorandum summarizes the findings of the air quality, GHG emissions, and energy analysis conducted by FCS for the proposed Byway East Affordable Housing Project (Proposed Project) located in the City of Napa, in Napa County (County), California. All technical data, including modeling assumptions and outputs, are included as Attachment A.

PROJECT DESCRIPTION

The approximately 2.61-acre Project Site is located at 4122 and 4124 Byway East (Assessor's Parcel Numbers [APNs] 038-063-001 and 038-063-007) in the City of Napa. The Project Site is an infill site in the City, and it is bordered by Byway East and State Route (SR) 29 on the west, with commercial and hotel uses beyond; Reed Circle and a mobile home park on the north; a single-family residence on the east; and single-family residential and commercial uses near El Centro Avenue on the south. Situated in the northern part of the City, the area is primarily urban, surrounded by residential and commercial developments, with the Napa Valley Railroad and associated greenspace located further west of the Project Site. The nearest transit stop, the Byway East/Reed Circle stop, is immediately adjacent to the Project Site's western boundary and is serviced by Vine Transit Route E. The nearest transit station, the Soscol Gateway Transit Center, is located approximately 3.36 miles southeast of the Project Site and is serviced by 10 bus bays that provide bus services throughout the County.[1]

[1] 511 SF Bay. 2026. Napa Soscol Gateway Transit Center. Website: https://511.org/transit/centers/napa-soscol-gateway-transit-center. Accessed May 20, 2026.

The Project Site is currently developed with the Advantage RV Center, consisting of a recreational vehicle (RV) repair shop, a storage area, and a single-family residence. The existing buildings total approximately 5,031 square feet. Surface parking is provided throughout the Project Site.

The Proposed Project would include demolition of the existing Advantage RV Center, including the existing RV repair shop, storage yard, single-family residence, and carports, to construct an approximately 151,977-square-foot multi-family apartment building up to five stories in height, with 178 multi-family dwelling units, resulting in a density of approximately 68.2 dwelling units per acre (du/acre). The proposed building would have a lot coverage of approximately 30 percent, and a maximum height of 68 feet to the top of the stair tower roof structure. The Proposed Project would also feature approximately 7,365 square feet of tuck-under (ground-level) parking, 1,683 square feet of leasing office space, and 1,940 square feet of amenity space.

The Proposed Project would be all-electric with electricity infrastructure maintained by the Pacific Gas and Electric Company (PG&E), while electricity would be generated by Marin Clean Energy (MCE). The Proposed Project would include the planting of approximately 58 new trees throughout the Project Site and approximately 16,952 square feet of landscaping throughout the Project Site, including portions of the 9,261 square feet of common (usable) open space. Landscaping would include drought-resistant shrubs, ground cover, perennials, and ornamental grasses. Irrigation utilized for the Proposed Project would be required to adhere to the City's Water Efficient Landscape Ordinance, which provides requirements for plant selection, soil preparation, and irrigation.[2] The Proposed Project would include a total of 182 vehicle parking spaces. Of the 182 parking spaces, 178 on-site vehicle parking spaces would be electric vehicle (EV) ready (with all electrical charging infrastructure installed, ready for use). In addition, new pedestrian sidewalks would be constructed on the Project Site frontage along Byway East, and the Proposed Project would provide 12 short-term bicycle parking stalls and 90 long-term bicycle parking stalls.

ENVIRONMENTAL COMMITMENTS

The Proposed Project would implement the following measures to demonstrate compliance with the General Plan.[3] These are standard practices that are imposed regularly on similar projects. These measures are required by the General Plan and shall be incorporated into all appropriate construction documents, as conditions of approval, subject to the review and approval of the Community Development Department prior to building permit issuance. To demonstrate compliance with City of Napa General Plan Natural Resources Element (NRC) Policies, as identified below, the following would apply to the Proposed Project and shall be implemented as a condition of project approval:

Policy NRC 5-2 Require that development projects incorporate Bay Area Air District Basic Construction Mitigation Measures to reduce construction and operational emissions for reactive organic gases (ROG), nitrogen oxides (NO_X), and particulate matter (PM_{10} and $PM_{2.5}$).

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[2] City of Napa. 2015. Water Efficient Landscape Guidelines. Website: https://www.cityofnapa.org/DocumentCenter/View/3566/WELO-Guidelines-PDF?bidId=. Accessed May 21, 2026.

[3] City of Napa. 2022. City of Napa 2040 General Plan. October.

Policy NRC 5-3 Require contractors to use Best Management Practices (BMPs)–including regular materials and vehicle tire watering, covering of stockpiles, phasing or extension of grading operations, suspension of grading during high wind periods, and revegetation of graded areas–to reduce particulate emissions (including PM_{10} and $PM_{2.5}$) and dust associated with construction activities.

Policy NRC 5-4 Require all construction equipment to be maintained and tuned to meet appropriate EPA and ARB emission requirements, including use of Tier 4 engines in off-road equipment and cleaner, heavy-duty trucks to reduce NO_X and PM exhaust emission levels.

AIR QUALITY

Environmental Setting

The Project Site is within the San Francisco Bay Area Air Basin (SFBAAB), which covers Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, and parts of Solano and Sonoma counties and is under the Bay Area Air District's jurisdiction. The SFBAAB is bordered by the Pacific Ocean to the west and surrounded by coastal and inland mountain ranges that influence local airflow and pollutant dispersion.

The region has a Mediterranean climate with mild, wet winters and warm, dry summers. Prevailing westerly and northwesterly winds, driven by marine influences, generally help disperse pollutants inland. In summer and early fall, high temperatures and sunlight promote ozone formation, and occasional inversions can trap this pollution near the surface, particularly in inland valleys. In winter, strong temperature inversions are more frequent, limiting vertical air mixing and allowing fine particulate matter ($PM_{2.5}$) from wood-burning, traffic, and other sources to accumulate. Topography and seasonal weather create distinct microclimates; coastal areas benefit from stronger ventilation, while sheltered interior areas are more prone to pollutant buildup.

Air Pollutants, Health Effects, and Sources

Criteria air pollutants include ozone, PM_{10}, $PM_{2.5}$, NO_2, CO, SO_2, and lead and are regulated based on their widespread harm to public health, particularly for sensitive populations like children, the elderly, and those with respiratory or cardiovascular conditions. Ozone and particulate matter (PM) are especially harmful, while CO, NO_2, and SO_2 cause respiratory and cardiovascular effects at elevated exposures. Toxic air contaminants (TACs), such as diesel particulate matter (DPM), benzene, and formaldehyde, pose cancer and neurological risks even at low levels and are managed through risk assessments and control measures rather than ambient standards. In the SFBAAB, mobile sources are the dominant contributors to ozone precursors and DPM, while stationary sources, area sources (e.g., wood-burning, coatings), and natural sources like wildfires contribute to regional pollutant levels.

Air Quality Conditions in the SFBAAB

The Bay Area Air District monitors criteria pollutants across a regional network, with ozone and PM representing the primary areas of concern. The SFBAAB frequently exceeds both State and federal 8-hour

ozone standards, particularly in summer in inland areas. $PM_{2.5}$ levels peak in winter due to stagnant conditions and wood-burning, with wildfire smoke elevating concentrations seasonally. PM_{10} is generally low regionally but subject to localized spikes from construction and wildfires. NO_2, CO, and SO_2 have consistently remained below State and federal standards. As a result of ozone and PM exceedances, the SFBAAB is designated nonattainment under both California and federal standards for 1-hour and 8-hour ozone, PM_{10} (annual and 24-hour), annual $PM_{2.5}$, and 24-hour $PM_{2.5}$.

Sensitive Receptors

Sensitive receptors, including children, the elderly, and those with preexisting health conditions, are most vulnerable to air quality impacts and are associated with land uses such as schools, daycare centers, hospitals, nursing homes, and residences. Within 1,000 feet of the Project Site, sensitive receptors include residences approximately 40 feet to the north (across Reed Circle), residences approximately 250 feet to the east, a commercial building (worker receptors) approximately 25 feet to the south, and residences approximately 50 feet to the south.

Regulatory Context

Federal and State Regulatory Framework

At the federal level, air quality is governed by the Clean Air Act (CAA), with the United States Environmental Protection Agency (EPA) establishing National Ambient Air Quality Standards (NAAQS) for the six (6) criteria pollutants and requiring nonattainment areas to demonstrate compliance through State Implementation Plans (SIPs). At the State level, the California Air Resources Board (ARB) establishes the more stringent California Ambient Air Quality Standards (CAAQS), regulates mobile and stationary source emissions, and oversees the SIP. The ARB also identifies and controls TACs through the Tanner Act and Airborne Toxic Control Measures (ATCMs), including diesel idling restrictions, off-road diesel fleet modernization requirements, and stationary engine controls, and administers the Assembly Bill (AB) 2588 Hot Spots Program requiring Health Risk Assessments (HRAs) for facilities emitting TACs. The AB 617 Community Air Protection Program targets pollution reductions in disadvantaged communities; while the Project Site is not within an AB 617 community, it reflects the State’s broader focus on cumulative exposure and environmental justice.

Regional Regulatory Framework–Bay Area Air District

The Bay Area Air District regulates air quality across the nine (9)-county SFBAAB through stationary source permitting, CEQA guidance, and adopted rules. Though not binding regulations, the Bay Area Air District's 2022 CEQA Air Quality Guidelines establish the thresholds of significance used for this analysis. Applicable Bay Area Air District regulations include dust and fugitive emission controls during construction (Regulations 6, Rules 1, 5, and 6), architectural coating volatile organic compound limits (Regulation 8, Rule 3), asbestos controls during demolition (Regulation 11, Rule 2), and permitting requirements for stationary sources such as diesel generators (Regulation 2, Rules 1 and 5), including TAC health risk evaluation where applicable. The Proposed Project is not anticipated to include any stationary sources requiring Bay Area Air District permits.

The Bay Area Air District maintains Community Air Risk Evaluation (CARE) maps to identify areas with elevated TAC exposure and cumulative air quality burdens, with projects in or near these areas subject to more stringent review—particularly regarding diesel emissions and proximity to sensitive receptors such as schools, residences, and healthcare facilities. The Proposed Project is not located within an AB 617 community.

Local Regulatory Framework

City of Napa 2040 General Plan

Goals and Policies

GOAL NRC-5 Protect air quality within the City and support efforts for enhanced regional air quality.

NRC 5-1 Coordinate with County, regional, State, and federal jurisdictions on air quality standards and seek to adopt local measures.

NRC 5-2 Require that development projects incorporate Bay Area Air District's Basic Construction Mitigation Measures to reduce construction and operational emissions for reactive organic gases (ROG), nitrogen oxides (NO_X), and particulate matter (PM_{10} and $PM_{2.5}$).

NRC 5-3 Require contractors to use Best Management Practices (BMPs)—including regular materials and vehicle tire watering, covering of stockpiles, phasing or extension of grading operations, suspension of grading during high wind periods, and revegetation of graded areas—to reduce particulate emissions (including PM_{10} and $PM_{2.5}$) and dust associated with construction activities.

NRC 5-4 Require all construction equipment to be maintained and tuned to meet appropriate Environmental Protection Agency (EPA) and California Air Resources Board (ARB) emission requirements, including use of Tier 4 engines in off-road equipment and cleaner heavy-duty trucks to reduce NO_X and PM exhaust emission levels.

GOAL NRC-6 Through various sustainability measures, reduce greenhouse gas (GHG) emissions, fine particulate matter, and black carbon emissions into the air.

NRC 6-1 Encourage new developments to incorporate sustainable building practices to reduce their carbon footprint and impact on the environment, as outlined in the Green Buildings Standards Code and the Napa Municipal Code.

NRC 6-2 Implement regulations that will contribute to an improvement in air quality, and reduction of gases that are harmful to the environment and that cause climate change. Example regulations include eliminating fossil fuels (natural gas) in heating spaces and water for new and significantly renovated buildings.

GOAL NRC-8 Protect sensitive receptors from exposure to substantial concentrations of toxic air contaminants (TACs) and associated health risks.

NRC 8-1 Where feasible, require new sensitive receptors (e.g., schools, day care centers, hospitals, and retirement homes) to be set back from highways and other high-volume roads, consistent with the Bay Area Air District Guidelines and California Air Resource Board (ARB) recommendations, to reduce health risks associated with exposure to TACs, including exhaust emissions or particulate matter from diesel engines (DPM).

NRC 8-2 For new sensitive receptors, require the installation of indoor air quality equipment that meet Title 24 standards such as high efficiency particulate air (HEPA) filters if the recommended siting distances cannot be attained.

Air Quality Impacts Analysis

According to CEQA Guidelines Appendix G, the following questions are analyzed and evaluated to determine whether impacts related to air quality are significant environmental effects.

Would the Proposed Project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less than significant impact. The Bay Area Air District has adopted several air quality policies and plans to address the attainment and maintenance of State and federal air quality standards. The current Bay Area Air District attainment plan is the 2017 Clean Air Plan, adopted in April 2017. The 2017 Clean Air Plan serves as the regional Air Quality Plan (AQP) for the SFBAAB for attaining NAAQS. A project would be judged to conflict with or obstruct the 2017 Clean Air Plan implementation if it would result in substantial new regional emissions not foreseen in the air quality planning process.

The Bay Area Air District's 2022 CEQA Guidelines outline the following criteria that should be used for determining a project's consistency with the AQP.

- **Criterion 1:** Does the project support the primary goals of the AQP?
- **Criterion 2:** Does the project include applicable control measures from the AQP?
- **Criterion 3:** Does the project disrupt or hinder implementation of any AQP control measures?

Primary Goals of the Air Quality Plan

The primary goals of the 2017 Clean Air Plan are to attain air quality standards, reduce population exposure to unhealthy air and protect the public health in the Bay Area, and reduce GHG emissions and protect the climate.

As discussed below, the Proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant during project construction or operation with implementation and, therefore, would not impede the 2017 Clean Air Plan's goal to attain air quality standards.

As discussed below, implementation of the Proposed Project would not expose sensitive populations to unhealthy air during project construction or operation with implementation, and, therefore, the Proposed Project supports the 2017 Clean Air Plan's goal to reduce population exposure to unhealthy air and protect public health in the Bay Area.

Finally, the Proposed Project would incorporate several features that support climate protection and GHG reduction goals. The Proposed Project would redevelop an existing infill site with a transit-adjacent, high-density residential community served by Vine Transit, promoting opportunities for reduced vehicle travel. The Proposed Project would be constructed as an all-electric development, thereby eliminating on-site GHG emissions associated with natural gas combustion. In addition, 178 vehicle parking spaces would be EV-ready, supporting transportation electrification. The Proposed Project would also provide new pedestrian improvements, including sidewalk enhancements along Byway East, as well as 102 bicycle parking spaces (12 short-term and 90 long-term) to encourage alternative modes of transportation. The Proposed Project would provide substantial landscaping, including approximately 58 new trees, and drought-tolerant plantings consistent with the City's Water Efficient Landscape Ordinance. Therefore, the Proposed Project supports the 2017 Clean Air Plan's goal to reduce GHG emissions and protect the climate.

Overall, the Proposed Project supports the primary goals of the 2017 Clean Air Plan and therefore would be consistent with Criterion 1.

Applicable Control Measures

The 2017 Clean Air Plan contains 85 control measures that describe specific actions to reduce air pollutants and GHG emissions at the local, regional, and global levels. To establish compliance with the Clean Air Plan, the Proposed Project would be required to comply with applicable Clean Air Plan control measures, listed below:[4]

- **BL1:** Green Buildings
- **BL2:** Decarbonize Buildings
- **BL4:** Urban Heat Island Mitigation
- **EN1:** Decarbonize Electricity Generation
- **EN2:** Decrease Electricity Demand
- **NW2:** Urban Tree Planting
- **WA3:** Green Waste Diversion
- **WA4:** Recycling and Waste Reduction
- **SS36:** Particulate Matter from Trackout
- **TR9:** Bicycle and Pedestrian Access and Facilities

The Proposed Project would comply with the above control measures, as specified below:

- For consistency with Clean Air Plan Measures BL1, BL2, EN1, and EN2, the Proposed Project would comply with the latest energy efficiency standards, such as the applicable California Title 24 Energy Code. In addition, to support decarbonization of buildings and decarbonization of electricity generation, the Proposed Project would include an all-electric design. The Proposed Project would

[4] Bay Area Air Quality Management District (Bay Area Air District). 2017. Final 2017 Clean Air Plan. Website: https://www.baaqmd.gov/plans-and-climate/air-quality-plans/current-plans#:~:text=The%202017%20Plan%20includes%20a,climate%20pollutants%20in%20the%20near%2D. Accessed July 6, 2026.

utilize MCE for its electricity supply; MCE is compliant with the Renewable Portfolio Standard (RPS), which is gradually decarbonizing the State's overall electricity supply.

- For consistency with Clean Air Plan Measures BL4 and NW2, the Proposed Project would incorporate ample landscaping and plant 58 trees, as noted in the Project Description.
- For consistency with Clean Air Plan Measures WA3 and WA4, the Proposed Project would utilize a waste service provider that complies with applicable State recycling and organic waste diversion requirements, including AB 341 and SB 1383.
- For consistency with Clean Air Plan Measure SS36, the Proposed Project would comply with fugitive dust emissions minimization requirements through the implementation of General Plan policies NRC 5-3 (which would require that development projects incorporate Bay Area Air District BMPs) during construction.
- For consistency with Clean Air Plan Measure TR9, the Proposed Project would connect to the existing neighborhood and would redevelop an existing infill site with a transit-adjacent, high-density residential community served by Vine Transit, promoting opportunities for reduced vehicle travel.

Accordingly, the Proposed Project would not conflict with any applicable measures under the 2017 Clean Air Plan; therefore, the Proposed Project would be consistent with Criterion 2.

Hindrance of Implementation of AQP Control Measures

The Proposed Project would not hinder implementation of the applicable 2017 Clean Air Plan control measures and would generally support their objectives. The Proposed Project would be developed as an all-electric, high-density infill residential project that complies with applicable Title 24 and California Green Building Standards Code (CALGreen) energy efficiency standards, supports building and grid decarbonization, and includes 58 new trees, extensive landscaping, and EV-ready parking spaces. It would also provide new pedestrian improvements and 102 bicycle parking spaces and would be located adjacent to public transit, which would support alternative transportation modes, while construction and operation would be subject to applicable dust control, recycling, and waste diversion requirements. The Proposed Project would not disrupt or hinder the implementation of any AQP control measures and would be consistent with Criterion 3.

Summary

Overall, the Proposed Project would demonstrate consistency with the relevant and applicable AQP, and impacts would be less than significant.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard?

Less than significant impact. Potential impacts could result in exceedances of State or federal health-based ambient air quality standards for which the SFBAAB is in nonattainment, which includes O_3 (and ozone precursors: ROG and NO_X), $PM_{2.5}$, and PM_{10}. Therefore, the following analysis assesses the ROG, NO_X, PM_{10}, and $PM_{2.5}$ emissions associated with the Proposed Project and compares construction-related and operational-related emissions against identified thresholds of significance.

To assess the potential foreseeable health impacts from the Proposed Project, the NO_X, ROG, and PM emissions were calculated and compared against the project-level mass emissions thresholds contained in the Bay Area Air District 2022 CEQA Guidelines. These project-level mass emissions thresholds were developed in consideration of long-term air quality planning in the SFBAAB and are designed to capture excess emissions that would inhibit attainment of the NAAQS and CAAQS for various pollutants. Projects that exceed these mass emissions thresholds, whether before mitigation or following application of mitigation measures, may contribute emissions that would degrade the ambient air quality of the SFBAAB and expose people to concentrations of criteria air pollutants found by the EPA and ARB to be hazardous to human health. By the same logic, projects that would not exceed the mass emissions thresholds of significance on a project level also would not be considered to result in a cumulatively considerable contribution to these regional air quality impacts and would not expose people to concentrations of criteria air pollutants found by the EPA and ARB to be hazardous to human health.

Although the SFBAAB is in attainment for CO, elevated concentrations of CO still warrant consideration according to the Bay Area Air District. Occurrences of elevated localized CO concentrations, known as hot spots, are often associated with heavy traffic congestion, which most frequently occurs at signalized intersections of high-volume roadways. Thus, CO emissions are evaluated in accordance with Bay Area Air District guidance.

Construction and operational emissions are analyzed separately below.

Construction Emissions

Construction Emissions: Fugitive Dust

Construction-related activities, including demolition, site preparation, grading, material delivery, and hauling, would result in fugitive dust emissions (e.g., $PM_{2.5}$ and PM_{10}). PM_{10}/$PM_{2.5}$ (fugitive dust) is recognized to impact local communities. The Bay Area Air District does not have a numerical threshold of significance for fugitive dust PM emissions. Instead, the Bay Area Air District bases the determination of significance for fugitive dust on whether feasible and effective control measures have been implemented or not. For a project to have a less than significant impact related to construction-related fugitive dust emissions, it must implement all of the Bay Area Air District's Basic BMPs. As discussed above, the Proposed Project would need to comply with the City's General Plan Policy NRC 5-3, which requires the Proposed Project to implement Basic Construction Mitigation Measures for fugitive dust. Therefore, the Proposed Project would have a less than significant impact related to short-term construction fugitive dust emissions. In addition, the Proposed Project would comply with all applicable Bay Area Air District rules, including Regulation 6, Rule 1 (General Requirements) and Regulation 6, Rule 6 (Prohibition of Trackout), which require dust-generating operations to limit PM emissions.

Construction Emissions: ROG, NO_X, PM_{10}, and $PM_{2.5}$ Exhaust

Construction-related exhaust emissions for the Proposed Project were estimated using CalEEMod Version 2022.1.1. CalEEMod provides a uniform platform for government agencies, land use planners, and environmental professionals to calculate emissions from land use development and linear projects in California. Use of CalEEMod is recommended by Bay Area Air District. CalEEMod provides default values for estimating construction emissions based on land use type, Project Site size, and building size. These defaults were utilized in the analysis unless indicated otherwise. The CalEEMod output, included in Attachment A, contains notes as well as references to any additional calculations or off-model calculations.

In accordance with the City's General Plan Policy NRC 5-4, which requires all construction equipment to be maintained and tuned to meet appropriate EPA and ARB emission requirements, including use of Tier 4 engines in off-road equipment and cleaner heavy-duty trucks to reduce NO_X and PM exhaust emission levels, the construction emissions analysis assumed the use of a clean construction fleet (including the use of Tier 4 Interim engines on equipment with greater than or equal to 50 horsepower).

Table 1 shows the Proposed Project's average daily emissions from construction. As indicated in Table 1, construction exhaust emissions would be below the Bay Area Air District's recommended thresholds of significance.

Table 1: Criteria Pollutant Emissions—Construction

Construction Year	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
	Pounds per day			
2027	0.35	4.14	0.05	0.05
2028	0.60	2.55	0.05	0.05
2029	11.69	2.24	0.04	0.04
Significance Threshold (lbs/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
lbs = pounds
NO_X = oxides of nitrogen
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases

Average daily emissions were calculated by dividing the pounds of emissions by the number of net workdays of construction for each construction year.

Source: Attachment A

Operational Emissions

Operational Emissions: ROG, NO_X, PM_{10}, and $PM_{2.5}$

Operational-related emissions for the Proposed Project were estimated using CalEEMod and were compared against the Bay Area Air District's thresholds of significance. Operational emissions from the Proposed Project include those associated with ongoing operation of the Proposed Project and would include area, energy, and mobile sources.

- Area sources would include emissions from architectural coatings, consumer products, and landscape equipment.
- Energy use would not be a source of direct emissions at the Proposed Project as the residential units would be all-electric.

- Mobile sources would include exhaust and road dust emissions from the vehicles that would travel to and from the Project Site.

As shown in Table 2, the Proposed Project would not exceed any of the Bay Area Air District's thresholds of significance for daily operational emissions.

Table 2: Criteria Pollutant Emissions—Operation

	ROG	NO_X	PM_{10} Total	$PM_{2.5}$ Total
Project Buildout				
Mobile (lbs/day)	2.00	1.57	2.30	0.60
Area (lbs/day)	4.27	0.05	<0.01	<0.01
Energy, all-electric (lbs/day)	0.00	0.00	0.00	0.00
Average Daily Total (lbs/day)	**6.27**	**1.62**	**2.30**	**0.60**
Significance Threshold (lbs/day)	**54**	**54**	**82**	**54**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**
Annual Average Total (tons/year)	**1.15**	**0.29**	**0.42**	**0.11**
Significance Threshold (tons/year)	**10**	**10**	**15**	**10**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**

Notes:
lbs/day = pounds per day
NO_X = oxides of nitrogen
PM_{10} = particulate matter, 10 micrometers or less in diameter
$PM_{2.5}$ = particulate matter, 2.5 micrometers or less in diameter
ROG = reactive organic gases

Totals were summed using unrounded numbers and may not appear to sum exactly due to rounding.

Source: Attachment A.

Operational Emissions: Carbon Monoxide Hotspot

A CO hotspot is a localized concentration of CO that is above a CO Ambient Air Quality Standard. Localized CO hotspots typically occur at areas with high vehicle density, such as intersections with heavy peak-hour traffic and also 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 CO emissions from traffic generated by the Proposed Project are a concern at the local level because project trip generation could lead to congested intersections that can result in high localized concentrations of CO.

The Bay Area Air District provides screening criteria to determine whether implementing the Proposed Project could result in local CO emissions that exceed thresholds of significance. If all the following screening criteria are met, operation of the Proposed Project would result in a less than significant impact related to CO:

- The Proposed Project is consistent with an applicable Congestion Management Plan established by the County Congestion Management Agency for designated roads or highways, the regional transportation plan, and local congestion management agency plans.
- Project-generated traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.
- Project-generated 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).

Consistency with an Applicable Congestion Management Program

The Napa County Congestion Management Program (CMP) is administered by the Napa Valley Transportation Authority (NVTA), the designated Congestion Management Agency for Napa County. The CMP is intended to coordinate transportation and land use planning, reduce traffic congestion, improve mobility, and promote transit, bicycle, and pedestrian transportation options throughout the County. The Proposed Project would redevelop an existing infill site within the City of Napa with a high-density residential development in an urbanized area served by existing transit facilities, including a Vine Transit bus stop immediately adjacent to the Project Site. In addition, the Proposed Project would provide new pedestrian sidewalks along Byway East, 12 short-term bicycle parking spaces, and 90 long-term bicycle parking spaces, which would support multimodal transportation and reduce reliance on single-occupancy vehicle travel. A total of 178 vehicle parking spaces would be EV-ready, facilitating future electric vehicle use and supporting reductions in transportation-related emissions. The Proposed Project would not preclude implementation of the County's congestion management and transportation planning objectives and is compatible with NVTA's efforts to improve transit, bicycle, and pedestrian connectivity throughout the region. Therefore, the Proposed Project would be consistent with the Napa County CMP and would satisfy the first criterion.

Increase Traffic Volumes at Affected Intersections to No More Than 44,000 Vehicles Per Hour (or 24,000 Vehicles Per Hour Where Mixing Is Substantially Limited)

According to Transportation Impact Study for the Byway East Affordable Housing Project, prepared by W-Trans, the peak-hour traffic volumes at the intersection of SR-29 and Wine Country Avenue would be approximately 2,304 vehicles per hour. The Proposed Project would be expected to generate approximately 51 trips during the PM peak-hour, and therefore project-generated traffic would not increase traffic volumes at affected intersections to more than 44,000 or 24,000 vehicles per hour, which satisfies the screening requirements for the second and third criterion, respectively,

Therefore, based on the above criteria, the Proposed Project would not exceed the CO screening criteria and would have a less than significant impact related to CO.

Summary

Overall, the Proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment, and therefore impacts would be less than significant.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less than significant impact. As discussed above, the Proposed Project is within 1,000 feet of sensitive receptors, including residences approximately 40 feet to the north (across Reed Circle), residences approximately 250 feet to the east, a commercial building (worker receptors) approximately 25 feet to the south, and residences approximately 50 feet to the south. Sensitive receptors are particularly sensitive to air pollution because they are persons that are ill, elderly, or have lungs that are not fully developed. Localized air emissions, including $PM_{2.5}$ and DPM, can pose significant health risks to nearby sensitive receptors due to their concentrated exposure levels. Unlike regional emissions, which contribute to broader air quality trends, a localized emissions analysis focuses on site-specific risks like cancer and respiratory effects, ensuring that sensitive receptors adjacent to a project are adequately protected.

Construction and operation are discussed separately below.

Construction

Construction emissions have the potential to result in significant health impacts due to emissions of DPM, which is a TAC, and $PM_{2.5}$. To evaluate these potential impacts, an HRA was conducted using air dispersion modeling and exposure assumptions consistent with Bay Area Air District and Office of Environmental Health Hazard Assessment (OEHHA) guidance. The HRA quantifies potential cancer and non-cancer health risks to nearby sensitive receptors resulting from project-related construction emissions. Cancer risk is evaluated because long-term exposure to TACs may increase the likelihood of developing cancer, while non-cancer hazard impacts are evaluated to assess the potential for adverse health effects other than cancer. DPM is used as a surrogate TAC for evaluating cancer risk because diesel exhaust is a well-characterized source of TAC emissions and DPM serves as an indicator of the carcinogenic potency of diesel exhaust, consistent with OEHHA guidance. In addition, $PM_{2.5}$ concentrations were evaluated in accordance with Bay Area Air District guidance because elevated concentrations of fine particulate matter have been associated with adverse health effects, including respiratory and cardiovascular impacts, independent of cancer risk.

DPM and $PM_{2.5}$ emissions associated with project construction activities were quantified using CalEEMod. Emissions sources include off-road construction equipment and on-road mobile sources associated with construction activities, including worker trips, vendor deliveries, and haul trucks traveling on roadways within 1,000 feet of the Project Site.

The resulting DPM and $PM_{2.5}$ emissions were modeled using American Meteorological Society/EPA Regulatory Mode (AERMOD) to estimate pollutant concentrations at sensitive receptors located within 1,000 feet of the Project Site. The modeling results were used to identify the Maximally Exposed Individual Resident (MEIR) and Maximally Exposed Individual Worker (MEIW).

Cancer risk was evaluated at each of the sensitive receptors within 1,000 feet of the Project Site using the modeled DPM concentrations. Consistent with Bay Area Air District and OEHHA guidance, DPM was used as a surrogate TAC to evaluate the carcinogenic effects of diesel exhaust. Cancer risk, expressed as excess cancer cases per one million exposed individuals, was calculated at each receptor using the Hot Spots Analysis and Reporting Program, Version 2 (HARP2) which is the ARB software used to calculate health risks from TACs.

The analysis accounts for exposure occurring during the 22-month construction period and averages the resulting risk over a 70-year lifetime. For residential receptors, the risk assessment incorporated age sensitivity factors and assumed exposure beginning during the third trimester of pregnancy, consistent with OEHHA guidance. Worker cancer risk was based on exposure beginning at age 16 and incorporated a worker adjustment factor of 4.2 to account for the overlap between peak daytime construction activity and worker presence.

Chronic non-cancer health hazards were also evaluated using the annual average DPM concentrations predicted by AERMOD (EPA's preferred air dispersion model for estimating how air pollutants emitted from a source disperse in the atmosphere and what concentrations occur at nearby receptors). The chronic hazard assessment evaluates the potential for adverse long-term health effects other than cancer, such as impacts to organ systems or reproductive health, resulting from exposure to TAC emissions during construction.

Separately, annual average $PM_{2.5}$ concentrations attributable to construction activities were evaluated at nearby sensitive receptors. Unlike the cancer and non-cancer health risk analyses, which assess health effects associated with exposure to TAC emissions, the $PM_{2.5}$ analysis evaluates potential health impacts associated with elevated concentrations of fine particulate matter in ambient air from the Proposed Project's construction activities.

Table 3 summarizes the Proposed Project's construction cancer risk, chronic non-cancer hazard index, and annual $PM_{2.5}$ concentration impacts at the maximally exposed receptor locations. As shown in Table 3, the estimated cancer risk, chronic non-cancer hazard, and $PM_{2.5}$ concentration impacts associated with project construction would not exceed the Bay Area Air District's applicable single source significance thresholds, and impacts would be less than significant.

Table 3: Estimated Health Risks and $PM_{2.5}$ Concentrations–Construction

Receptor	Cancer Risk (risk per million)	Chronic Non-cancer Hazard Index	Maximum Annual $PM_{2.5}$ ($\mu g/m^3$)
MEIR	5.57	<0.01	0.02
MEIW	0.35	<0.01	0.01
Thresholds of Significance	**10**	**1**	**0.3**
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Note:
$\mu g/m^3$ = micrograms per cubic meter
MEIR = Maximally Exposed Individual Resident
MEIW = Maximally Exposed Individual Worker
The MEIR is a residence located at the northern border of the Project Site (receptor ID 1259).
The MEIW is a worker located at the southern border of the Project Site (receptor ID 1056).
Source: Attachment A.

Health Risk Assessment–Cumulative (Project Construction and Existing Sources)

The Bay Area Air District recommends conducting a cumulative HRA to assess the cumulative impacts of the Proposed Project's construction-related health risks and $PM_{2.5}$ concentrations in combination with existing sources of TACs and $PM_{2.5}$ concentrations within 1,000 feet of the Proposed Project at the most impacted nearby receptors, including the MEIR and the MEIW.

To conduct a cumulative HRA, the Bay Area Air District provides several tools for use in identifying the existing sources of air pollution and associated health risks near a project. These tools include the Stationary Source Screening Map[5] which provides the location of all the stationary sources permitted by the Bay Area Air District and the estimated cancer risk, hazards estimates, and $PM_{2.5}$ concentrations associated with those stationary sources; and the Mobile Screening Map (and associated data layers), which provides estimated cancer risk, hazards estimates, and $PM_{2.5}$ concentrations at varying distances from all Bay Area roadways, rail lines, and railyards. Results from the screening tools are shown in Table 4, and outputs from the screening tools are documented in Attachment A.

The cumulative health risks for the MEIR and the MEIW are summarized in Table 4. As shown, health risks and $PM_{2.5}$ concentrations would be below the Bay Area Air District's cumulative thresholds of significance, and impacts would be less than significant.

Table 4: Cumulative Health Risks and $PM_{2.5}$ Concentrations–Construction

Sources and Receptors	Cancer Risk (per million)	Chronic Hazard Index	Maximum Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
MEIR			
Project Construction	5.57	<0.01	0.02
Stationary Sources	9	0.00	0.01
Roadways and Railways	19.99	0.05	0.33
Cumulative Health Risks MEIR	**34.56**	**<0.07**	**0.36**
MEIW			
Project Construction	0.35	<0.01	0.01
Stationary Sources	9	0.00	0.01
Roadways and Railways	41.82	0.09	0.60
Cumulative Health Risks MEIW	**51.17**	**<0.10**	**0.62**
Threshold of Significance	**100**	**10**	**0.8**
Threshold Exceedance?	**No**	**No**	**No**

[5] Bay Area Air Quality Management District (Bay Area Air District). 2024. Stationary Source Screening Map. Website: https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3. Accessed July 6, 2026.

Sources and Receptors	Cancer Risk (per million)	Chronic Hazard Index	Maximum Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Notes: $PM_{2.5}$ = particulate matter less than 2.5 microns in diameter $\mu g/m^3$ = micrograms per cubic meter MEIR = Maximally Exposed Individual Resident MEIW = Maximally Exposed Individual Worker Project and stationary source risks and hazards are for diesel exhaust, which does not have an established Acute Reference Exposure Level. Source: Attachment A			

Operation

Residential land uses are not expected to generate substantive DPM or TAC emissions during operational activity. The traffic generated by the Proposed Project would consist of mostly light-duty gasoline-powered or electric vehicles from residences, which are not associated with significant emissions of DPM or TACs. Therefore, operational-related activity would not expose sensitive receptors to substantial concentrations of air pollutants, and impacts would be less than significant.

Summary

The Proposed Project would not expose sensitive receptors to substantial pollutant concentrations during project construction or project operation, and therefore impacts would be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less than significant impact. The ability to detect odors varies considerably among the population and is subjective. The Bay Area Air District does not have a recommended odor threshold for construction activities. However, the Bay Area Air District recommends operational screening criteria based on the distance between receptors and types of sources known to generate odors.

Project construction would generate diesel exhaust and ROGs; however, these emissions would disperse rapidly from the Project Site and therefore would not create significant odors affecting a substantial number of people. As such, construction odor impacts would be less than significant.

Land uses typically associated with objectionable odors include wastewater treatment plants, compost facilities, landfills, solid waste transfer stations, fiberglass manufacturing facilities, paint/coating operations (e.g., auto body shops), dairy farms, petroleum refineries, asphalt batch plants, chemical manufacturing, and food manufacturing facilities, as shown in Table 5-4, Odor Screening Distances, in Chapter 5 Project-level Air Quality Impacts, 2022 Bay Area Air District CEQA Guidelines.[6] The Proposed Project would not

[6] Bay Area Air Quality Management District (Bay Area Air District). 2022. CEQA Guidelines, Chapter 5 Project-level Air Quality Impacts, Table 5-4, Odor Screening Distances.

involve any of the uses in Table 5-4 of the Bay Area Air District CEQA Guidelines. Minor sources of odors, such as exhaust from mobile sources, are not typically associated with numerous odor complaints but are known to have temporary and not significant odors.

Summary

The Proposed Project would not result in other emissions (such as those leading to odors) during project construction or project operation, and therefore impacts would be less than significant.

GREENHOUSE GAS EMISSIONS

Environmental Setting

Global climate change is driven by the accumulation of GHGs in the atmosphere, primarily from human activities such as fossil fuel combustion, transportation, industry, energy production, and agriculture. Scientific consensus, including findings from the Intergovernmental Panel on Climate Change (IPCC), concludes that the rapid warming observed over the past century is largely attributable to human-caused GHG emissions. Key GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6), each of which varies in atmospheric lifetime and warming potential. Because these gases persist in the atmosphere for years to millennia, their impacts are global and cumulative, and emissions are commonly expressed as carbon dioxide equivalents (CO_2e) using global warming potential factors. In California, transportation is the largest source of GHG emissions, while in the San Francisco Bay Area, transportation and industrial/commercial activities are the dominant contributors. The resulting climate impacts include rising temperatures, more frequent and intense heat waves, droughts, wildfires, flooding, sea level rise, ecosystem disruption, and air quality degradation. These effects are already being observed globally, throughout California, and in the Bay Area, where increasing heat, wildfire risk, shoreline flooding, and worsening ozone and PM pollution are expected to intensify as temperatures continue to rise.

Regulatory Context

Federal, State, and Regional Regulatory Framework

At the federal level, the EPA regulates air pollution and GHG emissions through nationwide standards that target major emission sources, including on-road vehicles, heavy-duty trucks, locomotives, marine vessels, and off-road equipment. At the State level, California has adopted some of the nation's most ambitious climate policies, establishing binding targets to reduce GHG emissions to 40 percent below 1990 levels by 2030 and achieve carbon neutrality by 2045. To meet these goals, the State has implemented a comprehensive framework that includes vehicle electrification, low carbon fuels, renewable energy mandates, building energy efficiency standards, green building requirements, waste reduction programs, and long-range planning through the ARB Scoping Plan. California's strategy emphasizes decarbonizing transportation, buildings, and electricity generation while supporting local climate action through land use planning and CEQA review. At the regional level, the Bay Area Air District supports implementation of State climate goals through climate planning, CEQA guidance, and project-level GHG thresholds that encourage all-electric buildings, reduced Vehicle Miles Traveled (VMT), EV infrastructure, and other measures

designed to align new development with California's long-term emissions reduction and carbon neutrality objectives.

Local Regulatory Framework

City of Napa General Plan, Climate Change and Sustainability Element

GOAL CCS-1 Further the City's sustainability initiatives to reduce the community's GHG emissions, and foster green development patterns – including buildings, sites, and landscapes.

CCS 1-1 Implement immediate and sustained actions in support of achieving net zero climate pollutants from public and private operations within the City by 2030.

CCS 1-5 Work collaboratively with regional agencies and other partners to develop a Climate Action Plan to address the GHG reduction goals of Executive Order B-55-18, Senate Bill 32, Executive Order S-03-05, and City of Napa Resolution R2022-030). The Climate Action Plan could serve as a Qualified GHG Reduction Strategy to ensure that the City is in compliance with State targets for GHG emissions.

CCS 3-2 Require stormwater management techniques that minimize surface water runoff in public and private developments. Utilize low impact development techniques such as bioswales and other Best Management Practices to manage stormwater. Promote technologically advanced stormwater management systems and practices where land area is limited.

CCS 3-4 Develop standards for, and encourage, recycled (grey) water use and stormwater capture systems in new and existing developments, and in areas that do not impact groundwater quality.

GOAL CCS-4 Further the City's Solid Waste & Recycling Division goals to promote recycling, composting, and source reduction services for residential and commercial uses to divert 75 percent (or more) of waste from landfills by 2035 and maintain diversion at 75 percent or greater through 2040.

CCS 6-2 Promote renewable energy generation and storage to decrease reliance on outside sources and minimize impacts from public safety power shutdowns.

Ordinances/Muni Codes

10.70.020

Government Code Section 65089.3 requires cities and counties to adopt and implement a trip reduction and travel demand ordinance. The California Clean Air Act requires the Bay Area Air District to use all feasible means to meet the State air quality standards. The Bay Area Air District has established Regulation 13—Transportation Control Measures, Rule 1—Trip Reduction Requirements for Large Employers, and Regulation 3—Fees, which went into effect in Napa County on July 1, 1993. For the purposes of this chapter, Bay Area Air District Rule 13 shall supersede this chapter and include all of the provisions herein.

13.09.030 Water waste prohibitions.

A. No Person shall waste water. As used herein, the term "waste" means:
   1. Use of a hose that dispenses water to wash a motor vehicle, except where the hose is fitted with a shutoff nozzle or device attached to it that causes it to cease dispensing water immediately when not in use.
   2. Application of water to driveways and sidewalks, except where necessary to address an immediate health and safety need.
   3. Application of water to outdoor landscapes in a manner that causes more than incidental runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures.
   4. The application of water to irrigate turf and ornamental landscapes during and within 48 hours after the Director has determined that at least one-fourth of one inch of rainfall is recorded at the City of Napa Corporation Yard on napa.onerain.com or publicly available rain gauge. The Director shall publish the date and time of any determination made under this subsection on the City's internet web site.
   5. Failure to repair a leak in customer's plumbing system which is greater than one gallon per minute within 30 days of discovery or notification.

B. No Person shall use water to irrigate landscaping between the hours of 10:00 a.m. and 5:00 p.m., except for the initial watering of newly planted landscaping and germination requirements of newly seeded lawns.

C. No Person shall use water to irrigate ornamental turf on public street medians.

Greenhouse Gas Emissions Impacts Analysis

According to CEQA Guidelines Appendix G, the following questions are analyzed and evaluated to determine whether impacts related to GHG emissions are significant environmental effects.

Would the Proposed Project:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than significant impact. The Proposed Project would produce GHG emissions during construction and operation, which are discussed separately below.

Project Emissions (Informational Purposes)

Construction

The Proposed Project's construction emissions were calculated using CalEEMod. GHG emissions from construction represent a very small portion of a project's lifetime GHG emissions. Furthermore, construction GHG emissions are amortized over 30 years and accounted for as part of operational GHG emissions. Operational GHG impact is discussed below.

Table 5: Construction-related Greenhouse Gas Emissions–Informational Purposes

Construction Activity	Total GHG Emissions (MT CO_2e)
Construction (2027)*	66
Construction (2028)	321
Construction (2029)	204
Total Construction Emissions	**591**
Emissions Amortized Over 30 Years	**19.7**

Notes:
GHG = greenhouse gas
MT CO_2e = metric tons carbon dioxide equivalent

Totals may not appear to sum exactly due to rounding.

* If the construction moves to later months or years, emissions would be expected to remain the same or decrease. Therefore, using an assumed construction start time of 2027 in the modeling represents a conservative, worst-case scenario.

Source: Attachment A.

Operation

Operational-related activities associated with the Proposed Project would generate GHG emissions from energy use (indirect electricity use), area sources (including landscaping equipment, consumer products), mobile sources (vehicle trips from residences), solid waste generation, water usage, and wastewater treatment. The Proposed Project's operational-related GHG emissions were estimated using CalEEMod and are summarized and presented in Table 6.

Table 6: Operational-related Annual Greenhouse Gas Emissions–Informational Purposes

GHG Emissions Source	GHG Emissions (MT CO_2e)
Mobile	429
Area	2
Energy	99
Water	12
Waste	41
Refrigerants	<1
Subtotal Operational	**583**
Amortized Construction Emissions	**19.7**
Total Annual Project Emissions	**602.7**
Total Lifetime Project Emissions	**18,081**

GHG Emissions Source	GHG Emissions (MT CO_2e)
Notes: MT CO_2e = metric tons carbon dioxide equivalent Totals were summed using unrounded numbers and may not appear to sum exactly due to rounding. Source: Attachment A.	

Project Impact

Construction

The Bay Area Air District's 2022 CEQA Guidelines do not propose a construction-related climate impact threshold at this time. However, GHG emissions from construction represent a very small portion of a project's lifetime GHG emissions. The proposed thresholds for land use projects are designed to address operational GHG emissions which represent the vast majority of project GHG emissions. Operational GHG impact is discussed below.

Operation

The Bay Area Air District's 2022 CEQA Guidelines contain recommended project-level GHG significance thresholds which represent a method for determining whether the Proposed Project would be cumulatively considerable or whether the Proposed Project contributes to solving the cumulative problem of climate change, taking into consideration the State's long-term climate goal of carbon neutrality by 2045.

The Proposed Project is evaluated against the design elements in Criterion A of the Bay Area Air District's 2022 GHG Significance Thresholds:[7]

- **All-electric Design:** As noted in the Project Description, the Proposed Project would be an all-electric design and would therefore be consistent with this design element.
- **Energy Efficiency:** As demonstrated in the energy analysis below, the Proposed Project would not result in any wasteful, inefficient, or unnecessary energy usage and would therefore be consistent with this design element.
- **VMT Impact:** According to the Transportation Impact Study prepared by W-Trans, the Proposed Project's VMT impacts would be below the City's VMT threshold (15 percent below existing regional VMT per capita, which aligns with the VMT criteria within the Bay Area Air District's design elements). Therefore, the Proposed Project would be consistent with the third design element.
- **Tier 2 EV Charging Infrastructure:** 178 of the 182 on-site vehicle parking spaces would be EV-ready. Therefore, the Proposed Project would be consistent with this design element.

[7] Bay Area Air Quality Management District (Bay Area Air District). 2022. Bay Area Air Quality Management District CEQA Guidelines. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-6-project-climate-impacts_final-pdf.pdf?rev=ce3ba3fe9d39448f9c15bbabd8c36c7f&sc_lang=en. Accessed July 6, 2026.

Summary

In summary, the Proposed Project would satisfy all four (4) design elements as outlined in the Bay Area Air District's GHG significant threshold Criterion A, and therefore the Proposed Project would not generate GHG emissions, either directly or indirectly, that would have a significant impact on the environment and impacts would be less than significant.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the Greenhouse Gas Emissions?

Less than significant impact. The consistency of the Proposed Project with respect to ARB's 2022 Scoping Plan, the Metropolitan Transportation Commission/Association of Bay Area Governments (MTC/ABAG) Plan Bay Area 2050 and the City's General Plan is discussed below.

2022 Scoping Plan

Appendix D of the 2022 Scoping Plan provides guidance on evaluating project-level alignment with the State's climate goals in CEQA GHG analyses. According to the 2022 Scoping Plan, residential and mixed-use projects that have most of the key project attributes in Table 3 of Appendix D should accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals. The following presents a consistency analysis of the Proposed Project with Table 3 of Appendix D.

Transportation Electrification

Provides EV charging infrastructure that, at a minimum, meets the most ambitious voluntary standard in the California Green Building Standards Code at the time of project approval.

> **Consistent**. 178 on-site vehicle parking spaces would be EV-ready. Therefore, the Proposed Project would be consistent with this attribute of the 2022 Scoping Plan.

VMT Reduction

Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services.

> **Consistent**. As discussed in the Project Description, the Project Site is surrounded by existing urban uses and is presently served by existing utilities and essential public services.

Does not result in the loss or conversion of natural and working lands.

> **Consistent**. As noted in the Project Description, the Project Site is not vacant and will involve demolition. At the time of this writing in 2026, it is not developed as working lands.

Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre) **or** is in proximity to existing transit stops (within 0.5 mile) **or** satisfies more detailed and stringent criteria specific in the region's Sustainable Communities Strategy (SCS).

Consistent. As noted in the Project Description, the Project Site is served by public transit. The Byway East/Reed Circle stop is immediately adjacent to the Project Site's western boundary. In addition, the Proposed Project's density would be 68.2 dwelling units/acre.

Reduces parking requirements by eliminating parking requirements **or** includes maximum allowable parking ratios **or** provides residential parking supply at a ratio of less than one (1) parking space per dwelling unit **or** for multi-family residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.

Consistent. The Proposed Project would not impose minimum parking requirements and therefore would be consistent with the component of this criterion which states that the Proposed Project would be consistent if it "reduces parking requirements by eliminating parking requirements."

At least 20 percent of units included are affordable to lower-income residents.

Consistent. The Proposed Project would be constructed as a 100 percent affordable housing development.

Results in no net loss of existing affordable units.

Consistent. The Proposed Project would not result in the loss of any existing affordable units.

Building Decarbonization

Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking.

Consistent. The Proposed Project would be designed and constructed as all-electric and would not utilize natural gas.

As shown, the Proposed Project would demonstrate consistency with all of the attributes of Table 3, Appendix D and would therefore be consistent with the 2022 Scoping Plan.

MTC/ABAG Plan Bay Area 2050

As part of the implementing framework for Plan Bay Area 2050, local governments have identified planned development areas to focus growth. The Proposed Project site is within the planning area of the City's General Plan, includes transit-supportive densities, and is located adjacent to existing transit service. Thus, the Proposed Project would be consistent with the overall goals of Plan Bay Area 2050, which include concentrating new investment in areas with existing urban and transportation infrastructure. Given these considerations, overall, the Proposed Project would not conflict with Plan Bay Area 2050.

City of Napa 2040 General Plan, Climate Change and Sustainability Element

The Proposed Project would be consistent with applicable General Plan policies and municipal code provisions related to GHG emissions, sustainability, water conservation, and transportation demand management. The Proposed Project would redevelop an infill site with a high-density residential use in proximity to existing transit service, pedestrian infrastructure, and bicycle facilities, which supports the City's

goals of reducing community-wide GHG emissions and promoting sustainable development. The Proposed Project would incorporate an all-electric building design, provide EV-ready parking spaces, and include bicycle parking and pedestrian improvements, which would reduce reliance on fossil fuels and support renewable energy and transportation demand management objectives. The Proposed Project would also include approximately 16,952 square feet of landscaping with drought-tolerant plantings and would be required to comply with the City's Water Efficient Landscape Ordinance and applicable water conservation requirements. In addition, the provision of recycling and waste management services would support the City's solid waste diversion goals. Therefore, the Proposed Project would be consistent with the identified General Plan policies and Municipal Code requirements.

Summary

The Proposed Project would be consistent with the 2022 Scoping Plan, Plan Bay Area 2050, and the City's 2040 General Plan, Climate Change and Sustainability Element. Therefore, impacts would be less than significant.

ENERGY

Environmental Setting

The Project Site is served by MCE, whose electricity portfolio includes substantial renewable and GHG-free energy resources, and the Proposed Project would be developed as an all-electric facility, eliminating on-site natural gas use. Energy consumption in California is primarily distributed among the transportation, industrial, residential, and commercial sectors, with transportation remaining a major energy user due to reliance on gasoline and diesel fuels. However, State policies continue to drive a transition toward lower-carbon energy sources through increased use of EVs, alternative fuels, renewable diesel, and expanding charging infrastructure. In the construction sector, cleaner fuels such as renewable diesel are increasingly replacing conventional diesel, while California's residential and commercial sectors are being decarbonized through renewable energy requirements, building energy efficiency standards, and clean electricity mandates. Collectively, these trends reflect California's broader strategy to reduce fossil fuel dependence, expand renewable and zero-carbon energy resources, electrify transportation and buildings, and improve energy efficiency across all sectors, thereby reducing the GHG emissions associated with future development.

Regulatory Context

Federal, State, and Regional Regulatory Framework

At the federal level, energy efficiency is promoted through fuel economy standards, appliance efficiency regulations, and the ENERGY STAR program, which reduce energy consumption. At the State level, California has adopted a comprehensive energy framework focused on transportation electrification, cleaner vehicles and fuels, energy-efficient construction practices, building decarbonization, appliance efficiency, renewable energy development, and increasingly stringent building energy codes. Key programs include Title 24 energy standards, CALGreen, renewable portfolio requirements mandating 60 percent renewable electricity by 2030 and 100 percent zero-carbon electricity by 2045, and policies that encourage

heat pumps, photovoltaic (PV) solar systems, battery storage, and all-electric buildings. At the regional level, the Bay Area Air District and Plan Bay Area support these objectives through policies promoting building electrification, renewable energy, energy efficiency, reduced reliance on fossil fuels, and sustainable transportation. Recent Bay Area Air District climate policies and CEQA thresholds place particular emphasis on eliminating natural gas use and improving building energy performance, recognizing electrification as a key strategy for reducing long-term energy demand and GHG emissions.

Local Regulatory Framework

City of Napa 2040 General Plan

Climate Change and Sustainability Element

GOAL CCS-6 Considering power shutdowns that affect the Napa community, promote sustainable energy generation practices and further develop energy security that is resilient to wildfire and related climate disasters.

CCS 6-2 Promote renewable energy generation and storage to decrease reliance on outside sources, and minimize impacts from public safety power shutdowns.

CCS 7-7 Increase installation of electric vehicle charging stations with funding from State and federal sources.

CCS 7-10 Incentivize the use of on-site renewable energy generation for new and existing buildings.

GOAL CCS-8 Support the City's vision of a sustainable community by promoting efforts to reduce energy demand, reduce GHG emissions, and conserve resources through improved building design.

CCS 8-1 Support use of the California Green Building Standards Code (CALGreen) to reduce energy demand and promote resource conservation through improved building design. Encourage existing buildings to adapt to CALGreen sustainability practices.

CCS 8-3 Encourage roofing design and surface treatments (e.g., "cool roofs") that reduce the heat island effect of new development, and support reduced energy use, reduced air pollution, and a healthy urban forest. Connect businesses and residents with cool roof rebate programs for new and retrofitted roofs through City outreach efforts.

City of Napa Municipal Code

The City of Napa Municipal Code (Section 15.04.090) requires implementation of mandatory residential provisions from Appendix A4 of CALGreen, including enhanced energy efficiency measures. Compliance with these requirements would ensure that the Proposed Project incorporates energy-efficient building design features beyond standard building code requirements, thereby reducing overall energy consumption.

15.42.040 Solar energy system requirements.

A. All solar energy systems shall meet applicable health and safety standards and requirements imposed by the State and the City of Napa.

B. Solar energy systems for heating water in single-family residences and for heating water in commercial or swimming pool applications shall be certified by an accredited listing agency as defined by the California Plumbing and Mechanical Code.

C. Solar energy systems for producing electricity shall meet all applicable safety and performance standards established by the California Electrical Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories and, where applicable, rules of the Public Utilities Commission regarding safety and reliability. (O2015-12, 9/15/15).

Energy Impacts Analysis

According to CEQA Guidelines Appendix G, the following questions are analyzed and evaluated to determine whether impacts related to energy are significant environmental effects.

Would the Proposed Project:

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less than significant. A discussion of the Proposed Project's anticipated energy usage from construction and operation is presented below.

Construction

The Proposed Project would require demolition, site preparation, grading, building construction, architectural coating, and paving. The construction phase would require energy for the manufacture and transportation of building materials, preparation of the site (e.g., site clearing and grading), and the subsequent building construction phases. Petroleum-based fuels, such as diesel fuel and gasoline, would be the primary sources of energy for these tasks. The types of on-site equipment used during the construction of the Proposed Project would include gasoline- and diesel-powered construction and transportation equipment, including trucks, excavators, forklifts, and pavers.

The overall construction schedule and process is designed to be efficient in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, the opportunities for future efficiency gains during construction are limited. Compliance with regulations such as the In-use Off-road ATCMs minimizes emissions by using a modern fleet, keeping equipment well-tuned, and limiting idling to 5 minutes or less. The Proposed Project does not include any elements that would result in an unusually high use of transportation or construction fuel as compared to other or similar developments. Thus, it is anticipated that the construction phase of the Proposed Project would not result in wasteful, inefficient, and unnecessary consumption of energy.

Operation

Considering the guidance provided by Appendix F of the CEQA Guidelines, a project would be considered to result in wasteful, inefficient, or unnecessary consumption of energy resources if it would conflict with the following energy conservation goals:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas, or oil; and
- Increasing reliance on renewable energy sources.

Decreasing Overall Per Capita Energy Consumption

The Proposed Project would be designed and constructed in accordance with the California Energy Commission's (CEC) Title 24 Building Energy Efficiency Standards and CALGreen.[8] Title 24 standards include a broad set of energy conservation requirements applicable to the structural, mechanical, electrical, and plumbing systems in buildings. These standards, which are among the most stringent in the nation, establish requirements for lighting power density, water heating efficiency, insulation, fenestration, heating, ventilation, and air conditioning (HVAC) systems, and would promote energy conservation throughout the life of the building.[9]

Because the Proposed Project is all-electric, it would be subject to the enhanced electrification requirements under the 2022 Title 24 standards, which require new residential buildings to be pre-wired and equipped for electric appliances, effectively eliminating gas infrastructure requirements. Compliance with Title 24 and CALGreen would help ensure that per capita energy consumption associated with the Proposed Project remains within State-established efficiency thresholds. The decreasing reliance on fossil fuels and increasing use of renewable energy discussed below would further reduce per capita energy consumption attributable to the Proposed Project.

The Proposed Project would also provide 90 long-term and 12 short-term bicycle parking stalls, as well as new pedestrian sidewalks along the Byway East Project Site frontage, which would encourage walking and bicycling as alternatives to automobile travel and reduce vehicle-related energy consumption. In addition, the Byway East/Reed Circle transit stop, served by Vine Transit Route E, is immediately adjacent to the Project Site's western boundary, providing residents with convenient access to public transit and further reducing per capita vehicle energy demand.[10]

Decreasing Reliance on Fossil Fuels

The Proposed Project's all-electric building design eliminates the use of natural gas for space heating, water heating, cooking, and other building energy end uses, directly reducing the project's dependence on fossil

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[8] California Energy Commission (CEC). 2022. Building Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24, Part 6). Website: https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards. Accessed July 6, 2026.

[9] California Building Standards Commission (CBSC). 2022. California Green Building Standards Code (CALGreen), Title 24, Part 11. Website: https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen-Code. Accessed July 6, 2026.

[10] Napa Valley Transportation Authority (NVTA). 2023. Route E—Salvador/Vintage H.S. Website: https://vinetransit.com/routes/route-e-2/. Accessed July 6, 2026.

fuels compared to a conventional mixed-fuel building. No natural gas infrastructure would be installed as part of the Proposed Project.

To further reduce transportation-related fossil fuel consumption, 178 on-site vehicle parking spaces would be EV-ready. This substantially reduces barriers to EV adoption for project residents. The widespread availability of on-site EV charging would accelerate the transition away from gasoline-powered vehicles among residents of the Proposed Project.

The Proposed Project would also incorporate water-efficient landscaping featuring approximately 58 new trees and approximately 16,952 square feet of drought-resistant shrubs, ground cover, perennials, and ornamental grasses. Irrigation would be required to comply with the City's Water Efficient Landscape Ordinance, which provides requirements for plant selection, soil preparation, and irrigation system design, reducing the energy associated with water conveyance and treatment.[11] For these reasons, the Proposed Project would be consistent with the goal of decreasing reliance on fossil fuels.

Increasing Reliance on Renewable Energy Sources

The Proposed Project would be served by MCE, the Community Choice Aggregator (CCA) for the City. MCE's standard service, Light Green, provides a minimum of 60 percent renewable electricity; MCE's Deep Green option provides 100 percent renewable electricity from eligible renewable resources, including wind and solar.[12]

MCE complies with California's RPS, which under Senate Bill (SB) 100 requires all retail electricity sellers to procure 100 percent of their electricity from renewable and zero-carbon sources by 2045.[13]

Because the Proposed Project would be all-electric and served by MCE, the building's energy demand would be met primarily or entirely by renewable electricity, without any direct on-site combustion of fossil fuels. The full electrification of the building, combined with EV-ready infrastructure at 178 parking spaces, would progressively reduce the Proposed Project's overall fossil fuel dependence as California's electricity grid continues to decarbonize. As such, the Proposed Project would be consistent with the goal of increasing reliance on renewable energy sources.[14]

Summary

As discussed above, the Proposed Project's energy consumption from construction and operation would not result in wasteful, inefficient, or unnecessary consumption of energy resources. The Proposed Project is all-electric, is served by MCE's renewable electricity supply, provides EV-ready infrastructure at 178 parking spaces, includes transit-supportive infrastructure, and would comply with Title 24 and CALGreen

[11] City of Napa. 2022. Water Efficient Landscape Ordinance. Website: https://www.cityofnapa.org/1327/Conserving-Energy-Lowering-Your-Bill. Accessed July 6, 2026.

[12] Marin Clean Energy (MCE). 2024. MCE Power Content Label. Website: https://www.mcecleanenergy.org/rates-and-resources/power-content-label/. Accessed July 6, 2026.

[13] State of California. 2018. Senate Bill 100 (Chapter 312, Statutes of 2018). Website: https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100. Accessed June 2026.

[14] California Public Utilities Commission (CPUC). 2023. Renewables Portfolio Standard (RPS) Program. Website: https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/electric-power-procurement/rps. Accessed July 6, 2026.

energy efficiency requirements. These characteristics are consistent with the guidance derived from Appendix F of the CEQA Guidelines. Accordingly, impacts would be less than significant.

b) Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?

Less than significant impact. The Proposed Project would be subject to and consistent with a number of adopted State and local energy plans, as described below.

Title 24 Building Energy Efficiency Standards and CALGreen

The Proposed Project would be subject to the 2022 CEC Title 24 Building Energy Efficiency Standards and CALGreen. These standards support the State's goals for reducing GHG emissions and increasing energy efficiency in the built environment.[15] As an all-electric building, the Proposed Project would conform to and advance the State's building electrification goals embedded in the 2022 Title 24 standards. Compliance with Title 24 and CALGreen would ensure that the Proposed Project does not conflict with or obstruct State energy efficiency plans.

Renewables Portfolio Standard and Senate Bill 100

California's RPS, as codified through SB 100, requires all retail electricity sellers to achieve 100 percent clean electricity by 2045. Because the Proposed Project would be served by MCE—which already exceeds interim RPS requirements through its renewable energy procurement—the Proposed Project's electricity supply would be consistent with and would advance the State's long-term renewable energy goals.[16]

Statewide Transportation Electrification Goals

The Proposed Project's provision of EV-ready parking spaces is consistent with the State's efforts to accelerate the adoption of zero-emission vehicles and reduce transportation-sector GHG emissions. This is consistent with the goals of California's Advanced Clean Cars Program and the State's broader strategy to decarbonize the transportation sector.

City of Napa 2040 General Plan

The City Council adopted a comprehensive update of the General Plan (Napa 2040 General Plan) on October 18, 2022. The General Plan guides land use and development decisions through the year 2040 and includes a dedicated Climate Change and Sustainability (CCS) Element. The CCS Element establishes a comprehensive framework for reducing GHG emissions and improving energy efficiency citywide.[17]

Among the CCS Element's goals, Policy CCS 1-1 establishes the City's overarching climate objective: to achieve net zero climate pollutants from both public and private operations within the City. The policy

[15] California Energy Commission (CEC). 2022. Building Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24, Part 6). Website: https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards. Accessed July 6, 2026.

[16] State of California. 2018. Senate Bill 100 (Chapter 312, Statutes of 2018). Website: https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100. Accessed June 2026.

[17] City of Napa. 2022. Napa 2040 General Plan, Climate Change and Sustainability Element. Website: https://www.cityofnapa.org/259/General-Plan. Accessed July 6, 2026.

prioritizes actions in building energy, transportation, and land use to achieve carbon neutrality, with a strong emphasis on accelerating electrification and expanding the use of renewable energy across all sectors.[18]

The Proposed Project's all-electric building design directly supports the CCS Element's building energy goals by eliminating on-site fossil fuel combustion. The provision of EV-ready parking spaces advances the CCS Element's transportation electrification goals by ensuring that all residents have convenient access to EV charging. The Proposed Project's infill location adjacent to transit service and its bicycle and pedestrian infrastructure further align with the General Plan's goals of increasing sustainable mobility options and reducing VMT. Accordingly, the Proposed Project would be consistent with the Napa 2040 General Plan's CCS Element policies.

Marin Clean Energy Service Territory

The Proposed Project is located within MCE's service territory. MCE's renewable energy procurement practices, including the availability of 100 percent renewable service through its Deep Green program, ensure that the Proposed Project's all-electric building would be served by a predominantly or entirely renewable electricity supply. The Proposed Project's complete reliance on electricity—with no natural gas infrastructure—directly supports MCE's mission of increasing the use of renewable energy and reducing carbon emissions in the region.[19]

Summary

As discussed above, the Proposed Project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency. The Proposed Project's all-electric design, compliance with Title 24 and CALGreen, location within MCE's service territory, provision of EV-ready parking spaces, and transit-supportive and bicycle-supportive infrastructure are all consistent with State and local renewable energy and energy efficiency plans and policies. Impacts would be less than significant, and no mitigation measures are required.

CONCLUSION

Based on the analysis presented above, the Proposed Project would result in less than significant impacts to air quality, GHG emissions, and energy.

[18] City of Napa. 2022. Napa 2040 General Plan, Climate Change and Sustainability Element. Website: https://www.cityofnapa.org/259/General-Plan. Accessed July 6, 2026.

[19] Marin Clean Energy (MCE). 2024. MCE Power Content Label. Website: https://mcecleanenergy.org/how-do-i-know-where-my-power-comes-from/. Accessed July 6, 2026.

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Attachment A:

Air Quality, Greenhouse Gas Emissions and Energy Supporting Information

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Construction HRA 69

Bay Area Air District Screening HRA 207

CalEEMod Reports

Byway East Affordable Housing Project - Construction Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Byway East Affordable Housing Project - Construction
Construction Start Date	11/1/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60000
Precipitation (days)	42.2000
Location	Byway E, Napa, CA 94558, USA
County	Napa
City	Napa
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	808
EDFZ	2
Electric Utility	MCE
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.45

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	178.000	Dwelling Unit	2.61000	151,977	16,952.0	0.00000	488.000	Multi-family residential
Other Non-Asphalt Surfaces	0.56000	Acre	0.56000	0.00000	0.00000	0.00000	—	Off-site improvements along Byway East

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	119.394	119.385	2.46581	12.2489	0.01531	0.04690	1.19351	1.24041	0.04542	0.28537	0.33079	—	2,730.18	2,730.18	0.08426	0.12464	4.75267	2,774.19
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.77740	0.65313	12.9977	12.9934	0.07559	0.14601	5.39757	5.54358	0.14601	2.03274	2.17875	—	10,746.6	10,746.6	0.47876	1.47980	0.46306	11,200.0

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.17878	6.14682	1.81291	8.35659	0.01097	0.03360	0.83208	0.86568	0.03253	0.19871	0.23124	—	1,911.20	1,911.20	0.06440	0.09129	1.47086	1,941.49
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.12763	1.12179	0.33086	1.52508	0.00200	0.00613	0.15186	0.15799	0.00594	0.03626	0.04220	—	316.421	316.421	0.01066	0.01511	0.24352	321.435

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.69977	0.62594	2.46581	12.2489	0.01531	0.04690	1.19351	1.24041	0.04542	0.28537	0.33079	—	2,730.18	2,730.18	0.08426	0.12464	4.75267	2,774.19
2029	119.394	119.385	2.39656	11.9587	0.01531	0.04671	1.19351	1.24022	0.04171	0.28537	0.32709	—	2,698.51	2,698.51	0.08425	0.12111	4.31122	2,741.02
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.77740	0.65313	12.9977	12.9934	0.07559	0.14601	5.39757	5.54358	0.14601	2.03274	2.17875	—	10,746.6	10,746.6	0.47876	1.47980	0.46306	11,200.0
2028	0.68198	0.60532	2.58717	11.8298	0.01531	0.04690	1.19351	1.24041	0.04542	0.28537	0.33079	—	2,659.30	2,659.30	0.09274	0.12746	0.12307	2,699.73
2029	0.66132	0.58539	2.51551	11.5380	0.01531	0.04671	1.19351	1.24022	0.04171	0.28537	0.32709	—	2,628.98	2,628.98	0.08948	0.12394	0.11179	2,668.26

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.04819	0.04080	0.48806	1.39819	0.00300	0.00622	0.18886	0.19508	0.00618	0.06820	0.07439	—	389.149	389.149	0.01586	0.02665	0.17905	397.668
2028	0.48269	0.42779	1.81291	8.35659	0.01097	0.03360	0.83208	0.86568	0.03253	0.19871	0.23124	—	1,911.20	1,911.20	0.06440	0.09129	1.47086	1,941.49
2029	6.17878	6.14682	1.17652	5.41334	0.00719	0.02121	0.51371	0.53492	0.01907	0.12259	0.14166	—	1,211.43	1,211.43	0.04034	0.05421	0.81916	1,229.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00879	0.00745	0.08907	0.25517	0.00055	0.00113	0.03447	0.03560	0.00113	0.01245	0.01358	—	64.4281	64.4281	0.00263	0.00441	0.02964	65.8385
2028	0.08809	0.07807	0.33086	1.52508	0.00200	0.00613	0.15186	0.15799	0.00594	0.03626	0.04220	—	316.421	316.421	0.01066	0.01511	0.24352	321.435
2029	1.12763	1.12179	0.21471	0.98794	0.00131	0.00387	0.09375	0.09762	0.00348	0.02237	0.02585	—	200.566	200.566	0.00668	0.00898	0.13562	203.544

2.2.2. Onsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.18615	0.17383	1.56867	7.18625	0.01179	0.03986	0.00000	0.03986	0.03837	0.00000	0.03837	—	1,194.61	1,194.61	0.04846	0.00969	0.00000	1,198.71
2029	119.302	119.302	1.56727	8.86830	0.01179	0.03966	0.00000	0.03966	0.03819	0.00000	0.03819	—	1,265.33	1,265.33	0.05133	0.01027	0.00000	1,269.68
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.23284	0.23284	3.83208	12.7196	0.02063	0.04207	3.17580	3.21788	0.04207	1.38031	1.42238	—	2,234.21	2,234.21	0.09063	0.01813	0.00000	2,241.87
2028	0.18615	0.17383	1.56867	7.18625	0.01179	0.03986	0.00000	0.03986	0.03837	0.00000	0.03837	—	1,194.61	1,194.61	0.04846	0.00969	0.00000	1,198.71
2029	0.18597	0.17367	1.56727	7.18580	0.01179	0.03966	0.00000	0.03966	0.03819	0.00000	0.03819	—	1,194.31	1,194.31	0.04845	0.00969	0.00000	1,198.41

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.02390	0.02360	0.28201	1.19448	0.00202	0.00434	0.11983	0.12417	0.00431	0.05030	0.05461	—	211.790	211.790	0.00859	0.00172	0.00000	212.517
2028	0.13333	0.12450	1.12355	5.14710	0.00844	0.02855	0.00000	0.02855	0.02748	0.00000	0.02748	—	855.631	855.631	0.03471	0.00694	0.00000	858.567
2029	5.96926	5.96401	0.77515	3.55041	0.00569	0.01820	0.00000	0.01820	0.01757	0.00000	0.01757	—	578.496	578.496	0.02347	0.00469	0.00000	580.481
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00436	0.00431	0.05147	0.21799	0.00037	0.00079	0.02187	0.02266	0.00079	0.00918	0.00997	—	35.0643	35.0643	0.00142	0.00028	0.00000	35.1846
2028	0.02433	0.02272	0.20505	0.93935	0.00154	0.00521	0.00000	0.00521	0.00502	0.00000	0.00502	—	141.659	141.659	0.00575	0.00115	0.00000	142.146
2029	1.08939	1.08843	0.14146	0.64795	0.00104	0.00332	0.00000	0.00332	0.00321	0.00000	0.00321	—	95.7765	95.7765	0.00389	0.00078	0.00000	96.1052

2.2.3. Offsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.51362	0.45211	0.89714	5.06267	0.00352	0.00705	1.19351	1.20055	0.00705	0.28537	0.29242	—	1,535.57	1,535.57	0.03580	0.11495	4.75267	1,575.48
2029	0.49031	0.42909	0.82929	4.77294	0.00352	0.00705	1.19351	1.20055	0.00352	0.28537	0.28890	—	1,504.20	1,504.20	0.03580	0.11142	4.31122	1,542.61
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.62054	0.47910	12.1820	4.94063	0.06019	0.11464	2.39421	2.50885	0.11464	0.66956	0.78420	—	9,077.45	9,077.45	0.41105	1.46626	0.46306	9,525.14
2028	0.49582	0.43150	1.01850	4.64357	0.00352	0.00705	1.19351	1.20055	0.00705	0.28537	0.29242	—	1,464.69	1,464.69	0.04428	0.11777	0.12307	1,501.02
2029	0.47535	0.41172	0.94825	4.35215	0.00352	0.00705	1.19351	1.20055	0.00352	0.28537	0.28890	—	1,434.67	1,434.67	0.04103	0.11425	0.11179	1,469.85

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.02430	0.01719	0.20605	0.20370	0.00098	0.00188	0.06903	0.07090	0.00188	0.01790	0.01978	—	177.359	177.359	0.00727	0.02494	0.17905	185.151
2028	0.34936	0.30329	0.68937	3.20949	0.00252	0.00505	0.83208	0.83713	0.00505	0.19871	0.20375	—	1,055.57	1,055.57	0.02969	0.08435	1.47086	1,082.92
2029	0.20952	0.18280	0.40137	1.86293	0.00150	0.00301	0.51371	0.51672	0.00150	0.12259	0.12409	—	632.936	632.936	0.01688	0.04952	0.81916	648.934
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00443	0.00314	0.03760	0.03718	0.00018	0.00034	0.01260	0.01294	0.00034	0.00327	0.00361	—	29.3639	29.3639	0.00120	0.00413	0.02964	30.6539
2028	0.06376	0.05535	0.12581	0.58573	0.00046	0.00092	0.15186	0.15278	0.00092	0.03626	0.03719	—	174.762	174.762	0.00492	0.01397	0.24352	179.290
2029	0.03824	0.03336	0.07325	0.33999	0.00027	0.00055	0.09375	0.09430	0.00027	0.02237	0.02265	—	104.790	104.790	0.00279	0.00820	0.13562	107.438

3. Construction Emissions Details

3.1. Demolition (2027)

3.1.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.23284	0.23284	3.83208	11.4413	0.01975	0.03738	—	0.03738	0.03738	—	0.03738	—	2,042.33	2,042.33	0.08285	0.01657	—	2,049.33
Demolition	—	—	—	—	—	—	0.16575	0.16575	—	0.02510	0.02510	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01276	0.01276	0.20998	0.62692	0.00108	0.00205	—	0.00205	0.00205	—	0.00205	—	111.908	111.908	0.00454	0.00091	—	112.292
Demolition	—	—	—	—	—	—	0.00908	0.00908	—	0.00138	0.00138	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00233	0.00233	0.03832	0.11441	0.00020	0.00037	—	0.00037	0.00037	—	0.00037	—	18.5277	18.5277	0.00075	0.00015	—	18.5913
Demolition	—	—	—	—	—	—	0.00166	0.00166	—	0.00025	0.00025	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04668	0.04530	0.03949	0.45622	0.00000	0.00000	0.10333	0.10333	0.00000	0.02422	0.02422	—	97.4257	97.4257	0.00303	0.00433	0.01010	98.8009
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.01343	0.00416	0.27140	0.08957	0.00134	0.00256	0.05249	0.05504	0.00256	0.01472	0.01728	—	201.628	201.628	0.00914	0.03267	0.01024	211.602
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00251	0.00244	0.00193	0.02406	0.00000	0.00000	0.00551	0.00551	0.00000	0.00129	0.00129	—	5.38868	5.38868	0.00014	0.00024	0.00922	5.47194
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00074	0.00023	0.01468	0.00488	0.00007	0.00014	0.00282	0.00296	0.00014	0.00079	0.00093	—	11.0459	11.0459	0.00050	0.00179	0.00934	11.6012
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00046	0.00044	0.00035	0.00439	0.00000	0.00000	0.00101	0.00101	0.00000	0.00024	0.00024	—	0.89216	0.89216	0.00002	0.00004	0.00153	0.90594
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00014	0.00004	0.00268	0.00089	0.00001	0.00003	0.00051	0.00054	0.00003	0.00014	0.00017	—	1.82877	1.82877	0.00008	0.00030	0.00155	1.92071

3.2. Site Preparation (2027)

3.2.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15686	0.15686	0.81569	8.75986	0.01541	0.03137	—	0.03137	0.03137	—	0.03137	—	1,669.17	1,669.17	0.06771	0.01354	—	1,674.90
Dust From Material Movement	—	—	—	—	—	—	3.00336	3.00336	—	1.36318	1.36318	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00215	0.00215	0.01117	0.12000	0.00021	0.00043	—	0.00043	0.00043	—	0.00043	—	22.8653	22.8653	0.00093	0.00019	—	22.9438
Dust From Material Movement	—	—	—	—	—	—	0.04114	0.04114	—	0.01867	0.01867	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00039	0.00039	0.00204	0.02190	0.00004	0.00008	—	0.00008	0.00008	—	0.00008	—	3.78561	3.78561	0.00015	0.00003	—	3.79861

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.00751	0.00751	—	0.00341	0.00341	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01867	0.01812	0.01580	0.18249	0.00000	0.00000	0.04133	0.04133	0.00000	0.00969	0.00969	—	38.9703	38.9703	0.00121	0.00173	0.00404	39.5203
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.60186	0.18629	12.1662	4.01528	0.06019	0.11464	2.35288	2.46752	0.11464	0.65987	0.77451	—	9,038.48	9,038.48	0.40984	1.46453	0.45902	9,485.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00025	0.00024	0.00019	0.00241	0.00000	0.00000	0.00055	0.00055	0.00000	0.00013	0.00013	—	0.53887	0.53887	0.00001	0.00002	0.00092	0.54719
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00832	0.00263	0.16446	0.05469	0.00082	0.00157	0.03155	0.03312	0.00157	0.00887	0.01044	—	123.790	123.790	0.00561	0.02006	0.10465	130.014
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.00005	0.00004	0.00004	0.00044	0.00000	0.00000	0.00010	0.00010	0.00000	0.00002	0.00002	—	0.08922	0.08922	< 0.00005	< 0.00005	0.00015	0.09059
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00152	0.00048	0.03001	0.00998	0.00015	0.00029	0.00576	0.00604	0.00029	0.00162	0.00191	—	20.4949	20.4949	0.00093	0.00332	0.01733	21.5252

3.3. Grading (2027)

3.3.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21037	0.21037	1.09394	12.7196	0.02063	0.04207	—	0.04207	0.04207	—	0.04207	—	2,234.21	2,234.21	0.09063	0.01813	—	2,241.87
Dust From Material Movement	—	—	—	—	—	—	3.17580	3.17580	—	1.38031	1.38031	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.00461	0.00461	0.02398	0.27879	0.00045	0.00092	—	0.00092	0.00092	—	0.00092	—	48.9689	48.9689	0.00199	0.00040	—	49.1370
Dust From Material Movement	—	—	—	—	—	—	0.06961	0.06961	—	0.03025	0.03025	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00084	0.00084	0.00438	0.05088	0.00008	0.00017	—	0.00017	0.00017	—	0.00017	—	8.10736	8.10736	0.00033	0.00007	—	8.13519
Dust From Material Movement	—	—	—	—	—	—	0.01270	0.01270	—	0.00552	0.00552	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.02801	0.02718	0.02369	0.27373	0.00000	0.00000	0.06200	0.06200	0.00000	0.01453	0.01453	—	58.4554	58.4554	0.00182	0.00260	0.00606	59.2805
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00060	0.00058	0.00046	0.00578	0.00000	0.00000	0.00132	0.00132	0.00000	0.00031	0.00031	—	1.29328	1.29328	0.00003	0.00006	0.00221	1.31327
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00011	0.00011	0.00008	0.00105	0.00000	0.00000	0.00024	0.00024	0.00000	0.00006	0.00006	—	0.21412	0.21412	0.00001	0.00001	0.00037	0.21743
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2027)

3.4.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.18640	0.17403	1.57045	7.18690	0.01179	0.04010	—	0.04010	0.03859	—	0.03859	—	1,194.36	1,194.36	0.04845	0.00969	—	1,198.46
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00438	0.00409	0.03688	0.16877	0.00028	0.00094	—	0.00094	0.00091	—	0.00091	—	28.0476	28.0476	0.00114	0.00023	—	28.1438
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00080	0.00075	0.00673	0.03080	0.00005	0.00017	—	0.00017	0.00017	—	0.00017	—	4.64360	4.64360	0.00019	0.00004	—	4.65953
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47863	0.46450	0.40489	4.67752	0.00000	0.00000	1.05943	1.05943	0.00000	0.24833	0.24833	—	998.886	998.886	0.03108	0.04436	0.10353	1,012.99

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.03457	0.01460	0.69092	0.26311	0.00352	0.00705	0.13407	0.14112	0.00705	0.03704	0.04409	—	495.165	495.165	0.01602	0.07341	0.03114	517.473
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01104	0.01071	0.00847	0.10574	0.00000	0.00000	0.02420	0.02420	0.00000	0.00566	0.00566	—	23.6782	23.6782	0.00060	0.00104	0.04052	24.0440
Vendor	0.00082	0.00035	0.01587	0.00615	0.00008	0.00017	0.00308	0.00324	0.00017	0.00085	0.00102	—	11.6243	11.6243	0.00038	0.00172	0.01219	12.1597
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00201	0.00195	0.00155	0.01930	0.00000	0.00000	0.00442	0.00442	0.00000	0.00103	0.00103	—	3.92019	3.92019	0.00010	0.00017	0.00671	3.98076
Vendor	0.00015	0.00006	0.00290	0.00112	0.00002	0.00003	0.00056	0.00059	0.00003	0.00016	0.00019	—	1.92454	1.92454	0.00006	0.00029	0.00202	2.01317
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Building Construction (2028)

3.5.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18615	0.17383	1.56867	7.18625	0.01179	0.03986	—	0.03986	0.03837	—	0.03837	—	1,194.61	1,194.61	0.04846	0.00969	—	1,198.71
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18615	0.17383	1.56867	7.18625	0.01179	0.03986	—	0.03986	0.03837	—	0.03837	—	1,194.61	1,194.61	0.04846	0.00969	—	1,198.71
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13333	0.12450	1.12355	5.14710	0.00844	0.02855	—	0.02855	0.02748	—	0.02748	—	855.631	855.631	0.03471	0.00694	—	858.567
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02433	0.02272	0.20505	0.93935	0.00154	0.00521	—	0.00521	0.00502	—	0.00502	—	141.659	141.659	0.00575	0.00115	—	142.146
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47863	0.43710	0.27746	4.81625	0.00000	0.00000	1.05943	1.05943	0.00000	0.24833	0.24833	—	1,052.52	1,052.52	0.01978	0.04153	3.65416	1,069.04

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.03499	0.01502	0.61969	0.24641	0.00352	0.00705	0.13407	0.14112	0.00705	0.03704	0.04409	—	483.056	483.056	0.01602	0.07341	1.09851	506.432
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46168	0.41732	0.36618	4.38876	0.00000	0.00000	1.05943	1.05943	0.00000	0.24833	0.24833	—	981.339	981.339	0.02825	0.04436	0.09455	995.359
Vendor	0.03415	0.01418	0.65232	0.25480	0.00352	0.00705	0.13407	0.14112	0.00705	0.03704	0.04409	—	483.354	483.354	0.01602	0.07341	0.02852	505.660
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32460	0.29283	0.23050	3.03029	0.00000	0.00000	0.73825	0.73825	0.00000	0.17272	0.17272	—	709.496	709.496	0.01821	0.03177	1.13088	720.550
Vendor	0.02476	0.01046	0.45887	0.17920	0.00252	0.00505	0.09384	0.09888	0.00505	0.02598	0.03103	—	346.074	346.074	0.01148	0.05258	0.33998	362.370
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05924	0.05344	0.04207	0.55303	0.00000	0.00000	0.13473	0.13473	0.00000	0.03152	0.03152	—	117.465	117.465	0.00302	0.00526	0.18723	119.295
Vendor	0.00452	0.00191	0.08374	0.03270	0.00046	0.00092	0.01713	0.01805	0.00092	0.00474	0.00566	—	57.2964	57.2964	0.00190	0.00871	0.05629	59.9944
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Building Construction (2029)

3.6.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18597	0.17367	1.56727	7.18580	0.01179	0.03966	—	0.03966	0.03819	—	0.03819	—	1,194.31	1,194.31	0.04845	0.00969	—	1,198.41
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18597	0.17367	1.56727	7.18580	0.01179	0.03966	—	0.03966	0.03819	—	0.03819	—	1,194.31	1,194.31	0.04845	0.00969	—	1,198.41
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07934	0.07409	0.66862	3.06557	0.00503	0.01692	—	0.01692	0.01629	—	0.01629	—	509.512	509.512	0.02067	0.00413	—	511.260
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01448	0.01352	0.12202	0.55947	0.00092	0.00309	—	0.00309	0.00297	—	0.00297	—	84.3555	84.3555	0.00342	0.00068	—	84.6449
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45885	0.41449	0.24158	4.53399	0.00000	0.00000	1.05943	1.05943	0.00000	0.24833	0.24833	—	1,034.39	1,034.39	0.01978	0.04153	3.31853	1,050.58
Vendor	0.03146	0.01460	0.58772	0.23895	0.00352	0.00705	0.13407	0.14112	0.00352	0.03704	0.04057	—	469.812	469.812	0.01602	0.06989	0.99269	492.032
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44472	0.39754	0.32747	4.10565	0.00000	0.00000	1.05943	1.05943	0.00000	0.24833	0.24833	—	964.537	964.537	0.02543	0.04436	0.08604	978.478
Vendor	0.03062	0.01418	0.62078	0.24650	0.00352	0.00705	0.13407	0.14112	0.00352	0.03704	0.04057	—	470.130	470.130	0.01561	0.06989	0.02575	491.372
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18852	0.16960	0.13609	1.69018	0.00000	0.00000	0.43972	0.43972	0.00000	0.10288	0.10288	—	415.355	415.355	0.00964	0.01892	0.61106	421.847
Vendor	0.01324	0.00623	0.25968	0.10319	0.00150	0.00301	0.05589	0.05890	0.00150	0.01548	0.01698	—	200.486	200.486	0.00684	0.02982	0.18294	209.724
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03441	0.03095	0.02484	0.30846	0.00000	0.00000	0.08025	0.08025	0.00000	0.01878	0.01878	—	68.7668	68.7668	0.00160	0.00313	0.10117	69.8416
Vendor	0.00242	0.00114	0.04739	0.01883	0.00027	0.00055	0.01020	0.01075	0.00027	0.00282	0.00310	—	33.1927	33.1927	0.00113	0.00494	0.03029	34.7223
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Paving (2029)

3.7.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13236	0.13236	1.51416	8.86830	0.01169	0.02358	—	0.02358	0.02358	—	0.02358	—	1,265.33	1,265.33	0.05133	0.01027	—	1,269.68
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00653	0.00653	0.07467	0.43734	0.00058	0.00116	—	0.00116	0.00116	—	0.00116	—	62.4000	62.4000	0.00253	0.00051	—	62.6141
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00119	0.00119	0.01363	0.07981	0.00011	0.00021	—	0.00021	0.00021	—	0.00021	—	10.3310	10.3310	0.00042	0.00008	—	10.3665

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Paving	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07161	0.06468	0.03770	0.70755	0.00000	0.00000	0.16533	0.16533	0.00000	0.03875	0.03875	—	161.422	161.422	0.00309	0.00648	0.51787	163.948
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00340	0.00306	0.00245	0.03049	0.00000	0.00000	0.00793	0.00793	0.00000	0.00186	0.00186	—	7.49275	7.49275	0.00017	0.00034	0.01102	7.60986
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00062	0.00056	0.00045	0.00556	0.00000	0.00000	0.00145	0.00145	0.00000	0.00034	0.00034	—	1.24051	1.24051	0.00003	0.00006	0.00183	1.25990
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Architectural Coating (2029)

3.8.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02114	0.02114	0.64604	0.96319	0.00173	0.00235	—	0.00235	0.00235	—	0.00235	—	133.510	133.510	0.00542	0.00108	—	133.968
Architectural Coatings	119.281	119.281	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00104	0.00104	0.03186	0.04750	0.00009	0.00012	—	0.00012	0.00012	—	0.00012	—	6.58404	6.58404	0.00027	0.00005	—	6.60663
Architectural Coatings	5.88235	5.88235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.00019	0.00019	0.00581	0.00867	0.00002	0.00002	—	0.00002	0.00002	—	0.00002	—	1.09006	1.09006	0.00004	0.00001	—	1.09380
Architectural Coatings	1.07353	1.07353	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09177	0.08290	0.04832	0.90680	0.00000	0.00000	0.21189	0.21189	0.00000	0.04967	0.04967	—	206.878	206.878	0.00396	0.00831	0.66371	210.116
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00436	0.00392	0.00315	0.03908	0.00000	0.00000	0.01017	0.01017	0.00000	0.00238	0.00238	—	9.60271	9.60271	0.00022	0.00044	0.01413	9.75279
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.00080	0.00072	0.00057	0.00713	0.00000	0.00000	0.00186	0.00186	0.00000	0.00043	0.00043	—	1.58984	1.58984	0.00004	0.00007	0.00234	1.61469
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	11/1/2027	11/29/2027	5.00000	20.0000	—
Site Preparation	Site Preparation	11/30/2027	12/7/2027	5.00000	5.00000	—
Grading	Grading	12/8/2027	12/19/2027	5.00000	8.00000	—
Building Construction	Building Construction	12/20/2027	8/6/2029	5.00000	426.000	—
Paving	Paving	8/7/2029	8/30/2029	5.00000	18.0000	—
Architectural Coating	Architectural Coating	8/31/2029	9/25/2029	5.00000	18.0000	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.000000	8.00000	33.0000	0.73000
Demolition	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	3.00000	8.00000	36.0000	0.38000
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	8.00000	367.000	0.40000
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	8.00000	84.0000	0.37000
Grading	Graders	Diesel	Tier 4 Final	1.000000	8.00000	148.000	0.41000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	8.00000	367.000	0.40000
Grading	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Tier 4 Final	1.000000	4.20000	367.000	0.29000
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00000	4.80000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	4.80000	14.0000	0.74000
Building Construction	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	4.20000	84.0000	0.37000
Building Construction	Welders	Diesel	Tier 4 Final	1.000000	4.80000	46.0000	0.45000
Paving	Cement and Mortar Mixers	Diesel	Tier 4 Final	2.00000	6.00000	10.00000	0.56000
Paving	Pavers	Diesel	Tier 4 Final	1.000000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00000	6.00000	89.0000	0.36000
Paving	Rollers	Diesel	Tier 4 Final	2.00000	6.00000	36.0000	0.38000
Paving	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	8.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	12.5000	11.7000	LDA,LDT1,LDT2

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Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Vendor	—	8.40000	HHDT,MHDT
Demolition	Hauling	2.90000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	5.00000	11.7000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40000	HHDT,MHDT
Site Preparation	Hauling	130.000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	7.50000	11.7000	LDA,LDT1,LDT2
Grading	Vendor	—	8.40000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	128.160	11.7000	LDA,LDT1,LDT2
Building Construction	Vendor	19.0282	8.40000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	20.0000	11.7000	LDA,LDT1,LDT2
Paving	Vendor	—	8.40000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	25.6320	11.7000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40000	HHDT,MHDT

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	307,753	102,584	0.00000	0.00000	1,463.62

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	5,031.00	0.00000
Site Preparation	1,200.00	4,000.00	7.50000	0.00000	0.00000

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Grading	0.00000	0.00000	8.00000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	1.97000

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Apartments Mid Rise	1.41000	0%
Paving	Other Non-Asphalt Surfaces	0.56000	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	187.983	0.03300	0.00400
2028	0.00000	187.983	0.03300	0.00400
2029	0.00000	187.983	0.03300	0.00400

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Characteristics: Utility Information	The City of Napa is served by Marin Clean Energy
Land Use	2.61 acres - Multi-family residential, landscaping and hardscape surfaces 0.56 acres of off-site improvements along Byway East
Construction: Construction Phases	Building construction lengthened over default (426 days vs. 260 default days) to reflect applicant-provided construction schedule

Screen	Justification
Construction: Off-Road Equipment	Pursuant to the City of Napa General Plan Policy NRC 5-4, equipment greater than 25 hp is assumed as Tier 4 Final engines. Hours/day during Building Construction reduced to reflect extended construction time (426 days based on applicant-provided information) vs. default construction time (260 days). Equipment quantity/day reflects a 3-acre site.
Construction: Dust From Material Movement	Applicant-provided information indicates 4,000 cy of cut (export) and 1,200 cy of import (fill)

8.2. Project Characteristics

8.2.1. Project Details

Model Parameter	Default Value	New Value
Electric Utility	Pacific Gas & Electric Company	MCE

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	4.68421	2.61000
Building Area	sq. ft	170,880	151,977
Landscape Area	sq. ft	—	16,952.0
Special Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Building Construction	Building Construction	End Date	11/6/2028	8/6/2029
Building Construction	Building Construction	Work Days per Phase	230.000	426.000
Paving	Paving	Start Date	11/7/2028	8/7/2029
Paving	Paving	End Date	12/2/2028	8/30/2029
Architectural Coating	Architectural Coating	Start Date	12/3/2028	8/31/2029
Architectural Coating	Architectural Coating	End Date	12/28/2028	9/25/2029

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Concrete/Industrial Saws	Engine Tier	Average	Tier 4 Final
Demolition	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Demolition	Rubber Tired Dozers	Engine Tier	Average	Tier 4 Final
Demolition	Rubber Tired Dozers	Number per Day	2.00000	1.000000
Site Preparation	Rubber Tired Dozers	Engine Tier	Average	Tier 4 Final
Site Preparation	Rubber Tired Dozers	Number per Day	3.00000	1.000000
Site Preparation	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Site Preparation	Tractors/Loaders/Backhoes	Number per Day	4.00000	1.000000
Grading	Graders	Engine Tier	Average	Tier 4 Final
Grading	Rubber Tired Dozers	Engine Tier	Average	Tier 4 Final
Grading	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Grading	Tractors/Loaders/Backhoes	Number per Day	3.00000	1.000000

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Building Construction	Cranes	Engine Tier	Average	Tier 4 Final
Building Construction	Cranes	Hours Per Day	7.00000	4.20000
Building Construction	Forklifts	Engine Tier	Average	Tier 4 Final
Building Construction	Forklifts	Number per Day	3.00000	2.00000
Building Construction	Forklifts	Hours Per Day	8.00000	4.80000
Building Construction	Generator Sets	Hours Per Day	8.00000	4.80000
Building Construction	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Building Construction	Tractors/Loaders/Backhoes	Number per Day	3.00000	2.00000
Building Construction	Tractors/Loaders/Backhoes	Hours Per Day	7.00000	4.20000
Building Construction	Welders	Engine Tier	Average	Tier 4 Final
Building Construction	Welders	Hours Per Day	8.00000	4.80000
Paving	Cement and Mortar Mixers	Engine Tier	Average	Tier 4 Final
Paving	Pavers	Engine Tier	Average	Tier 4 Final
Paving	Paving Equipment	Engine Tier	Average	Tier 4 Final
Paving	Rollers	Engine Tier	Average	Tier 4 Final
Paving	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Architectural Coating	Air Compressors	Engine Tier	Average	Tier 4 Final

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Site Preparation	Material Imported	Cubic Yards	—	1,200.00

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Phase Name	Model Parameter	Units	Default Value	New Value
Site Preparation	Material Exported	Cubic Yards	—	4,000.00
Site Preparation	Total Acres Graded	acres	2.50000	7.50000

Byway East Affordable Housing Project - Operation Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Byway East Affordable Housing Project - Operation
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60000
Precipitation (days)	42.2000
Location	Byway E, Napa, CA 94558, USA
County	Napa
City	Napa
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	808
EDFZ	2
Electric Utility	MCE
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.45

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	178.000	Dwelling Unit	2.61000	151,977	16,952.0	0.00000	488.000	Multi-family residential

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.00693	6.83771	1.53508	21.5951	0.02640	0.02675	2.34349	2.37024	0.02431	0.59585	0.62015	82.7460	3,295.09	3,377.84	8.54687	0.18253	8.67985	3,654.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.99363	5.86078	1.66588	12.0175	0.02472	0.02212	2.34349	2.36561	0.02081	0.59585	0.61666	82.7460	3,142.38	3,225.12	8.57336	0.19590	1.28530	3,499.12
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.42439	6.27395	1.61626	16.1755	0.02509	0.02440	2.28040	2.30480	0.02253	0.58008	0.60261	82.7460	3,171.18	3,253.93	8.56046	0.18996	4.36637	3,528.91

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.17245	1.14500	0.29497	2.95203	0.00458	0.00445	0.41617	0.42063	0.00411	0.10586	0.10998	13.6995	525.025	538.725	1.41728	0.03145	0.72290	584.252

2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.24293	2.12294	1.44017	11.4698	0.02596	0.02209	2.34349	2.36558	0.02079	0.59585	0.61664	—	2,652.58	2,652.58	0.13702	0.14054	7.59139	2,705.47
Area	4.76400	4.71478	0.09491	10.1253	0.00044	0.00466	—	0.00466	0.00352	—	0.00352	0.00000	27.0003	27.0003	0.00113	0.00022	—	27.0953
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	594.455	594.455	0.10436	0.01265	—	600.833
Water	—	—	—	—	—	—	—	—	—	—	—	11.7688	21.0584	32.8272	1.21045	0.02912	—	71.7663
Waste	—	—	—	—	—	—	—	—	—	—	—	70.9772	0.00000	70.9772	7.09391	0.00000	—	248.325
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08846	1.08846
Total	7.00693	6.83771	1.53508	21.5951	0.02640	0.02675	2.34349	2.37024	0.02431	0.59585	0.62015	82.7460	3,295.09	3,377.84	8.54687	0.18253	8.67985	3,654.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.15495	2.02210	1.66588	12.0175	0.02472	0.02212	2.34349	2.36561	0.02081	0.59585	0.61666	—	2,526.86	2,526.86	0.16464	0.15413	0.19684	2,577.11
Area	3.83868	3.83868	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	594.455	594.455	0.10436	0.01265	—	600.833
Water	—	—	—	—	—	—	—	—	—	—	—	11.7688	21.0584	32.8272	1.21045	0.02912	—	71.7663

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Waste	—	—	—	—	—	—	—	—	—	—	—	70.9772	0.00000	70.9772	7.09391	0.00000	—	248.325
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08846	1.08846
Total	5.99363	5.86078	1.66588	12.0175	0.02472	0.02212	2.34349	2.36561	0.02081	0.59585	0.61666	82.7460	3,142.38	3,225.12	8.57336	0.19590	1.28530	3,499.12
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.12939	2.00322	1.56945	11.1822	0.02487	0.02210	2.28040	2.30251	0.02080	0.58008	0.60088	—	2,542.35	2,542.35	0.15118	0.14808	3.27791	2,593.54
Area	4.29500	4.27073	0.04681	4.99331	0.00022	0.00230	—	0.00230	0.00173	—	0.00173	0.00000	13.3152	13.3152	0.00056	0.00011	—	13.3621
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	594.455	594.455	0.10436	0.01265	—	600.833
Water	—	—	—	—	—	—	—	—	—	—	—	11.7688	21.0584	32.8272	1.21045	0.02912	—	71.7663
Waste	—	—	—	—	—	—	—	—	—	—	—	70.9772	0.00000	70.9772	7.09391	0.00000	—	248.325
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08846	1.08846
Total	6.42439	6.27395	1.61626	16.1755	0.02509	0.02440	2.28040	2.30480	0.02253	0.58008	0.60261	82.7460	3,171.18	3,253.93	8.56046	0.18996	4.36637	3,528.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.38861	0.36559	0.28643	2.04075	0.00454	0.00403	0.41617	0.42021	0.00380	0.10586	0.10966	—	420.916	420.916	0.02503	0.02452	0.54269	429.390
Area	0.78384	0.77941	0.00854	0.91128	0.00004	0.00042	—	0.00042	0.00032	—	0.00032	0.00000	2.20449	2.20449	0.00009	0.00002	—	2.21224
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	98.4188	98.4188	0.01728	0.00209	—	99.4748
Water	—	—	—	—	—	—	—	—	—	—	—	1.94846	3.48646	5.43492	0.20040	0.00482	—	11.8817
Waste	—	—	—	—	—	—	—	—	—	—	—	11.7511	0.00000	11.7511	1.17448	0.00000	—	41.1130
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18021	0.18021
Total	1.17245	1.14500	0.29497	2.95203	0.00458	0.00445	0.41617	0.42063	0.00411	0.10586	0.10998	13.6995	525.025	538.725	1.41728	0.03145	0.72290	584.252

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.24293	2.12294	1.44017	11.4698	0.02596	0.02209	2.34349	2.36558	0.02079	0.59585	0.61664	—	2,652.58	2,652.58	0.13702	0.14054	7.59139	2,705.47
Total	2.24293	2.12294	1.44017	11.4698	0.02596	0.02209	2.34349	2.36558	0.02079	0.59585	0.61664	—	2,652.58	2,652.58	0.13702	0.14054	7.59139	2,705.47
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.15495	2.02210	1.66588	12.0175	0.02472	0.02212	2.34349	2.36561	0.02081	0.59585	0.61666	—	2,526.86	2,526.86	0.16464	0.15413	0.19684	2,577.11
Total	2.15495	2.02210	1.66588	12.0175	0.02472	0.02212	2.34349	2.36561	0.02081	0.59585	0.61666	—	2,526.86	2,526.86	0.16464	0.15413	0.19684	2,577.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.38861	0.36559	0.28643	2.04075	0.00454	0.00403	0.41617	0.42021	0.00380	0.10586	0.10966	—	420.916	420.916	0.02503	0.02452	0.54269	429.390
Total	0.38861	0.36559	0.28643	2.04075	0.00454	0.00403	0.41617	0.42021	0.00380	0.10586	0.10966	—	420.916	420.916	0.02503	0.02452	0.54269	429.390

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	594.455	594.455	0.10436	0.01265	—	600.833
Total	—	—	—	—	—	—	—	—	—	—	—	—	594.455	594.455	0.10436	0.01265	—	600.833
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	594.455	594.455	0.10436	0.01265	—	600.833
Total	—	—	—	—	—	—	—	—	—	—	—	—	594.455	594.455	0.10436	0.01265	—	600.833
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	98.4188	98.4188	0.01728	0.00209	—	99.4748
Total	—	—	—	—	—	—	—	—	—	—	—	—	98.4188	98.4188	0.01728	0.00209	—	99.4748

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Apartments Mid Rise	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Consumer Products	3.25231	3.25231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.58638	0.58638	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.92532	0.87609	0.09491	10.1253	0.00044	0.00466	—	0.00466	0.00352	—	0.00352	—	27.0003	27.0003	0.00113	0.00022	—	27.0953
Total	4.76400	4.71478	0.09491	10.1253	0.00044	0.00466	—	0.00466	0.00352	—	0.00352	0.00000	27.0003	27.0003	0.00113	0.00022	—	27.0953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	3.25231	3.25231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.58638	0.58638	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	3.83868	3.83868	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.59355	0.59355	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10701	0.10701	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Landscape Equipment	0.08328	0.07885	0.00854	0.91128	0.00004	0.00042	—	0.00042	0.00032	—	0.00032	—	2.20449	2.20449	0.00009	0.00002	—	2.21224
Total	0.78384	0.77941	0.00854	0.91128	0.00004	0.00042	—	0.00042	0.00032	—	0.00032	0.00000	2.20449	2.20449	0.00009	0.00002	—	2.21224

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	11.7688	21.0584	32.8272	1.21045	0.02912	—	71.7663
Total	—	—	—	—	—	—	—	—	—	—	—	11.7688	21.0584	32.8272	1.21045	0.02912	—	71.7663
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	11.7688	21.0584	32.8272	1.21045	0.02912	—	71.7663
Total	—	—	—	—	—	—	—	—	—	—	—	11.7688	21.0584	32.8272	1.21045	0.02912	—	71.7663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1.94846	3.48646	5.43492	0.20040	0.00482	—	11.8817
Total	—	—	—	—	—	—	—	—	—	—	—	1.94846	3.48646	5.43492	0.20040	0.00482	—	11.8817

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	70.9772	0.00000	70.9772	7.09391	0.00000	—	248.325
Total	—	—	—	—	—	—	—	—	—	—	—	70.9772	0.00000	70.9772	7.09391	0.00000	—	248.325
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	70.9772	0.00000	70.9772	7.09391	0.00000	—	248.325
Total	—	—	—	—	—	—	—	—	—	—	—	70.9772	0.00000	70.9772	7.09391	0.00000	—	248.325
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	11.7511	0.00000	11.7511	1.17448	0.00000	—	41.1130
Total	—	—	—	—	—	—	—	—	—	—	—	11.7511	0.00000	11.7511	1.17448	0.00000	—	41.1130

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08846	1.08846
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08846	1.08846
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08846	1.08846
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08846	1.08846
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18021	0.18021
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18021	0.18021

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	640.800	640.800	640.800	233,892	3,294.58	3,294.58	3,294.58	1,202,522

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	0	0
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
307,753	102,584	0.00000	0.00000	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	1,154,232	187.983	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	6,141,614	226,300

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	131.698	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Characteristics: Utility Information	The City of Napa is served by Marin Clean Energy
Land Use	2.61 acres - Multi-family residential, landscaping and hardscape surfaces

Screen	Justification
Construction: Construction Phases	Building construction lengthened over default to reflect applicant-provided construction schedule
Construction: Off-Road Equipment	Pursuant to the City of Napa General Plan Policy NRC 5-4, equipment greater than 50 hp is assumed as Tier 4 engines.
Construction: Dust From Material Movement	Applicant-provided information indicates 4,000 cy of cut (export) and 1,200 cy of import (fill)
Operations: Vehicle Data	Updated daily trip generation based on W-Trans draft Transportation Impact Study which concluded that total net new trips would be 644 per day (based on removal of existing RV business)
Operations: Hearths	The project would be all-electric.
Operations: Energy Use	Electricity consumption for the Apartments Mid Rise land use was adjusted upward (from default of 568,319 kWh/year), and natural gas consumption was reduced to zero, to reflect the project's all-electric design. The natural gas energy demand otherwise associated with this land use subtype (1,999,134.17 kBTU/year) was converted to an equivalent electricity demand using a thermal conversion factor of 3,412 kBTU per kWh. This approach conservatively assumes a 1:1 thermal replacement and does not take credit for the higher operating efficiency of electric heat pump equipment (e.g., COP greater than 1) relative to combustion-based natural gas equipment; actual electricity demand for an all-electric building using heat pump technology would likely be lower than estimated.

8.2. Project Characteristics

8.2.1. Project Details

Model Parameter	Default Value	New Value
Electric Utility	Pacific Gas & Electric Company	MCE

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	4.68421	2.61000
Building Area	sq. ft	170,880	151,977
Landscape Area	sq. ft	—	16,952.0
Special Landscape Area	sq. ft	—	0.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Weekday Trip Rate	size/day	5.44000	3.60000
Apartments Mid Rise	Saturday Trip Rate	size/day	4.91000	3.60000
Apartments Mid Rise	Sunday Trip Rate	size/day	4.09000	3.60000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Default Value	New Value
Apartments Mid Rise	Gas Fireplaces	91	0
Apartments Mid Rise	No Fireplaces	87	0

8.5.3. Energy Usage

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Electricity	kWh/yr	568,319	1,154,232
Apartments Mid Rise	Electricity (Subject to Title 24)	kWh/yr	157,178	728,634
Apartments Mid Rise	Electricity (Not Subject to Title 24)	kWh/yr	411,141	425,597
Apartments Mid Rise	Natural Gas	kBTU/yr	1,999,134	0.00000
Apartments Mid Rise	Natural Gas (Subject to Title 24)	kBTU/yr	1,949,809	0.00000
Apartments Mid Rise	Natural Gas (Not Subject to Title 24)	kBTU/yr	49,325.4	0.00000

Construction HRA

On-Site AERMOD Sources

Source ID	Source Type	Description and Location	Construction Footprint (m2)	Construction Exhaust Release Parameters		AERMOD Emission Rate	
				Exhaust Release Height (m)	Initial Vertical Dimension (m)	x/Q (g/s)	x/Q (g/m2-s)
SITE	PolyArea	Project Site, Area of disturbance	12,551	5	1.4	1	8.0E-05

Notes:

Time of Day modeled using AERMOD's hour-ending convention and assumed 8am to 4pm.

Exhaust emissions from construction equipment modeled as an elevated volume sources with a release height of five meters and an initial vertical dimension of 1.4 meters. This represents the mid-range of the expected plume rise from frequently used construction equipment during daytime atmospheric conditions and follows modeling guidance from South Coast Air Quality Management District (South Coast AQMD), 2008. Final Localized Significance Threshold Methodology. Revised July 2008.

Emissions were modeled in AERMOD using a normalized emission rate of 1 g/s and scaled in HARP2 using the annual on-site DPM rate (lb/yr). A scalar of 4.2 was applied to apportion annual emissions to active construction working hours.

Off-Site AERMOD Sources

Source ID	Source Type	Description and Location	Line Distance (m)	Haul Road Truck Parameters		AERMOD Emissions x/Q (g/s)
				Vehicle Height (m)	Road Width (m)	
LINE1	Line-Volume	Project site to St. Helena Hwy, northbound	576	4	10	0.83
LINE2	Line-Volume	Southbound on St. Helena Hwy to Project site	122	4	10	0.17

Notes:
PM_{10} = coarse particulate matter

PM_{10} Exhaust is used as a surrogate for DPM and represents all on-site construction equipment exhaust.

Plume height and plume width and source release parameters are calculated internally by AERMOD using the EPA Haul Road Workgroup (2012) methodology (plume height = 1.7× vehicle height; plume width = road width + 6 m).

Truck height of 4.0 meters based on Bay Area Air District 2022 CEQA Guidelines (2023).

Time of Day modeled using AERMOD's hour-ending convention and assumed 8am to 4pm.

Emissions were modeled in AERMOD using a normalized emission rate of 1 g/s and scaled in HARP2 using the annual on-site DPM rate (lb/yr). A scalar of 4.2 was applied to apportion annual emissions to active construction working hours.

Annual On-Site Construction PM_{10} Exhaust (DPM) Emissions

Year	PM_{10} Exhaust (DPM)	
	Tons per year	Pounds per year
2027	0.000792347	1.6
2028	0.005209874	10.4
2029	0.003321295	6.6
Total On-site DPM	0.0093	18.6
Modeled Annual On-site PM_{10} Exhaust (DPM) Emissions		**10**

Notes:
PM_{10} = coarse particulate matter

PM_{10} Exhaust is used as a surrogate for DPM and represents all on-site construction equipment exhaust.

Total on-site DPM emissions across the 22-month construction period were averaged over the full construction duration to yield an annual modeling rate of 10 lb/yr.

Annual On-site Construction $PM_{2.5}$ Exhaust Emissions

Year	$PM_{2.5}$ Exhaust	
	Tons per year	Pounds per year
2027	0.009966051	19.9
2028	0.005015528	10.0
2029	0.003206752	6.4
Total On-site $PM_{2.5}$	0.0182	36.4
Modeled Annual On-site $PM_{2.5}$ Emissions (Reflects peak year)		**19.9**

Notes:
$PM_{2.5}$ = fine particulate matter

On-site $PM_{2.5}$ = $PM_{2.5}$ exhaust

The $PM_{2.5}$ analysis is based on an evaluation of peak modeled annual average concentrations consistent with Bay Area Air District guidance (2023, Appendix E). Annual average PM2.5 concentrations were evaluated for the year of highest annual construction emissions.

Emissions were modeled in AERMOD using a normalized emission rate of 1 g/s and scaled in HARP2 using the annual on-site DPM rate (lb/yr). A scalar of 4.2 was applied to apportion annual emissions to active construction working hours.

Annual Off-site Construction PM_{10} Exhaust (DPM) Emissions

Year	PM_{10} Exhaust (DPM)		
	Total Off-site Emissions (Tons per year)	**Total Off-site Emissions (Pounds per year)**	**Modeled Roadway (Pounds per year)**
2027	0.000342379	0.68	0.048
2028	0.000921222	1.84	0.129
2029	0.000548706	1.10	0.077
Total	0.000342379	0.68	0.048
Annual Average Total	**0.0018**	**3.62**	0.254
Modeled Annual Off-site PM_{10} Exhaust (DPM) Emissions			**0.13**

Notes:
PM_{10} = coarse particulate matter

Annual emissions were calculated for each year of construction and weighted by the fractional duration of construction activity within that calendar year to derive a total construction-period inventory. Total off-site DPM emissions were averaged over the full 22-month construction period, yielding an annual average emission rate of approximately 0.13 lb/yr.

A local roadway apportionment factor was applied to account for the fact that construction vehicles do not travel the entirety of their modeled trip length within the modeled area. The apportionment factor was derived by dividing the modeled roadway distance (0.43 miles, representing the length of roadway segments within the modeling area) by the shortest CalEEMod trip distance (6.0 miles, corresponding to hauling trips). This yielded an apportionment factor of approximately 0.07, which was applied to the annual average emission rate to produce the modeled roadway emission rate. This approach assumes that off-site vehicles may travel on any modeled segment and does not represent proportional allocation or actual routing.

Emissions were modeled in AERMOD using a normalized emission rate of 1 g/s and scaled in HARP2 using the annual on-site DPM rate (lb/yr). A scalar of 4.2 was applied to apportion annual emissions to active construction working hours.

Annual Off-site Construction $PM_{2.5}$ Emissions

Year	$PM_{2.5}$		
	Total Off-site Emissions (Tons per year)	**Total Off-site Emissions (Pounds per year)**	**Modeled Roadway (Pounds per year)**
2027	0.00360952	7.22	3.13
2028	0.037185116	74.37	5.37
2029	0.022646928	45.29	4.36
Total	0.0634	126.88	5.37
Annual Average Total	0.00360952	7.22	3.13
Modeled Annual Off-site PM_{10} Exhaust (DPM) Emissions			**5.37**

Notes:
$PM_{2.5}$ = $PM_{2.5}$ total which represents the sum of $PM_{2.5}$ exhaust and $PM_{2.5}$ dust, inclusive of brake wear, tire wear, and re-entrained road dust from construction vehicle travel.

The $PM_{2.5}$ analysis is based on an evaluation of peak modeled annual average concentrations consistent with Bay Area Air District guidance (2023, Appendix E). Annual average PM2.5 concentrations were evaluated for the year of highest annual construction emissions.

A local roadway apportionment factor was applied to account for the fact that construction vehicles do not travel the entirety of their modeled trip length within the modeled area. The apportionment factor was derived by dividing the modeled roadway distance (0.43 miles, representing the length of roadway segments within the modeling area) by the shortest CalEEMod trip distance (6.0 miles, corresponding to hauling trips). This yielded an apportionment factor of approximately 0.07, which was applied to the annual average emission rate to produce the modeled roadway emission rate. This approach assumes that off-site vehicles may travel on any modeled segment and does not represent proportional allocation or actual routing.

Emissions were modeled in AERMOD using a normalized emission rate of 1 g/s and scaled in HARP2 using the annual on-site DPM rate (lb/yr). A scalar of 4.2 was applied to apportion annual emissions to active construction working hours.

Control Pathway

Dispersion Options

Titles

F:\Jobs\65660001\ConHRA\ConHRA.isc
Construction HRA - Byway East

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban — Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours: ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☑ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hours will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: ConHRA.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: SITE (Site)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
22.88	5.00	0.00008		13	559522.77	4243323.43
		0.00008			559352.59	4243263.61
		0.00008			559467.08	4243080.02
		0.00008			559474.30	4243083.11
		0.00008			559426.85	4243162.53
		0.00008			559429.95	4243167.69
		0.00008			559434.07	4243171.81
		0.00008			559423.76	4243182.13
		0.00008			559416.54	4243182.13
		0.00008			559399.01	4243212.04
		0.00008			559479.45	4243241.95
		0.00008			559479.45	4243249.17
		0.00008			559553.72	4243269.80

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME
Source: SLINE1 (St Helena Highway)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
26.00	0.83000		559202.64	4243461.88	25.18	3.40
			559510.45	4242975.18	23.24	3.40

Source Type: LINE VOLUME
Source: SLINE2

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	0.17000		559300.95	4243345.84	24.59	3.40
			559318.67	4243357.12	24.28	3.40
			559329.95	4243312.00	23.94	3.40
			559357.35	4243265.26	23.75	3.40

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE2	L0000053	559307.70	4243350.14	24.39	3.40	0.02125	16.00		7.44	3.16
	L0000054	559319.40	4243354.23	24.30	3.40	0.02125	16.00		7.44	3.16
	L0000055	559323.28	4243338.70	24.05	3.40	0.02125	16.00		7.44	3.16
	L0000056	559327.16	4243323.18	24.00	3.40	0.02125	16.00		7.44	3.16
	L0000057	559332.22	4243308.14	23.91	3.40	0.02125	16.00		7.44	3.16
	L0000058	559340.31	4243294.34	23.84	3.40	0.02125	16.00		7.44	3.16
	L0000059	559348.40	4243280.53	23.78	3.40	0.02125	16.00		7.44	3.16
	L0000060	559356.49	4243266.73	23.73	3.40	0.02125	16.00		7.44	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000061	559209.59	4243450.89	25.02	3.40	0.03773	26.00		12.09	3.16
	L0000062	559223.49	4243428.92	24.86	3.40	0.03773	26.00		12.09	3.16
	L0000063	559237.38	4243406.94	24.78	3.40	0.03773	26.00		12.09	3.16
	L0000064	559251.28	4243384.97	24.77	3.40	0.03773	26.00		12.09	3.16
	L0000065	559265.18	4243362.99	24.84	3.40	0.03773	26.00		12.09	3.16
	L0000066	559279.08	4243341.02	24.82	3.40	0.03773	26.00		12.09	3.16
	L0000067	559292.97	4243319.05	24.62	3.40	0.03773	26.00		12.09	3.16
	L0000068	559306.87	4243297.07	24.38	3.40	0.03773	26.00		12.09	3.16
	L0000069	559320.77	4243275.10	24.21	3.40	0.03773	26.00		12.09	3.16
	L0000070	559334.67	4243253.12	24.03	3.40	0.03773	26.00		12.09	3.16
	L0000071	559348.56	4243231.15	23.74	3.40	0.03773	26.00		12.09	3.16
	L0000072	559362.46	4243209.18	23.58	3.40	0.03773	26.00		12.09	3.16
	L0000073	559376.36	4243187.20	23.50	3.40	0.03773	26.00		12.09	3.16
	L0000074	559390.26	4243165.23	23.45	3.40	0.03773	26.00		12.09	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000075	559404.15	4243143.25	23.40	3.40	0.03773	26.00		12.09	3.16
	L0000076	559418.05	4243121.28	23.38	3.40	0.03773	26.00		12.09	3.16
	L0000077	559431.95	4243099.31	23.42	3.40	0.03773	26.00		12.09	3.16
	L0000078	559445.85	4243077.33	23.43	3.40	0.03773	26.00		12.09	3.16
	L0000079	559459.74	4243055.36	23.24	3.40	0.03773	26.00		12.09	3.16
	L0000080	559473.64	4243033.38	23.26	3.40	0.03773	26.00		12.09	3.16
	L0000081	559487.54	4243011.41	23.17	3.40	0.03773	26.00		12.09	3.16
	L0000082	559501.44	4242989.44	23.18	3.40	0.03773	26.00		12.09	3.16

Source Pathway

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Source Groups

Source Group ID:	List of Sources in Group (Source Range or Single Sources)
Onsite	SITE
Offsite	SLINE1 SLINE2
ALL	All Sources Included

Variable Emissions

Hour-of-Day / Day-of-Week Emission Rate Variation

Scenario: Scenario 1

Source ID:	**SITE**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	4.20	4.20	4.20	4.20
	13 - 18	4.20	4.20	4.20	4.20	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**SLINE1**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	4.20	4.20	4.20	4.20
	13 - 18	4.20	4.20	4.20	4.20	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**SLINE2**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	4.20	4.20	4.20	4.20
	13 - 18	4.20	4.20	4.20	4.20	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	558991.56	4242747.75	UCART1	25.10	
2	559011.56	4242747.75	UCART1	24.53	
3	559031.56	4242747.75	UCART1	24.39	
4	559051.56	4242747.75	UCART1	24.58	
5	559071.56	4242747.75	UCART1	24.73	
6	559091.56	4242747.75	UCART1	24.99	
7	559111.56	4242747.75	UCART1	24.75	
8	559131.56	4242747.75	UCART1	24.28	
9	559151.56	4242747.75	UCART1	24.42	
10	559171.56	4242747.75	UCART1	24.39	
11	559191.56	4242747.75	UCART1	23.92	
12	559211.56	4242747.75	UCART1	23.97	
13	559231.56	4242747.75	UCART1	24.17	
14	559251.56	4242747.75	UCART1	24.40	
15	559271.56	4242747.75	UCART1	24.40	
16	559291.56	4242747.75	UCART1	24.33	
17	559311.56	4242747.75	UCART1	24.35	
18	559331.56	4242747.75	UCART1	24.37	
19	559351.56	4242747.75	UCART1	24.30	
20	559371.56	4242747.75	UCART1	23.91	
21	559391.56	4242747.75	UCART1	23.61	
22	559411.56	4242747.75	UCART1	23.45	
23	559431.56	4242747.75	UCART1	23.92	
24	559451.56	4242747.75	UCART1	24.21	
25	559471.56	4242747.75	UCART1	23.99	
26	559491.56	4242747.75	UCART1	23.91	
27	559511.56	4242747.75	UCART1	23.93	
28	559531.56	4242747.75	UCART1	23.88	
29	559551.56	4242747.75	UCART1	23.53	
30	559571.56	4242747.75	UCART1	23.12	

31	559591.56	4242747.75	UCART1	23.04
32	559711.56	4242747.75	UCART1	22.93
33	559731.56	4242747.75	UCART1	22.68
34	559751.56	4242747.75	UCART1	22.21
35	559771.56	4242747.75	UCART1	21.91
36	559791.56	4242747.75	UCART1	21.88
37	559811.56	4242747.75	UCART1	21.68
38	559831.56	4242747.75	UCART1	21.91
39	559851.56	4242747.75	UCART1	21.99
40	559871.56	4242747.75	UCART1	21.98
41	559891.56	4242747.75	UCART1	21.85
42	559911.56	4242747.75	UCART1	21.71
43	559931.56	4242747.75	UCART1	21.07
44	559951.56	4242747.75	UCART1	21.42
45	559971.56	4242747.75	UCART1	21.53
46	558991.56	4242767.75	UCART1	24.74
47	559011.56	4242767.75	UCART1	24.52
48	559031.56	4242767.75	UCART1	25.09
49	559051.56	4242767.75	UCART1	25.17
50	559071.56	4242767.75	UCART1	25.11
51	559091.56	4242767.75	UCART1	24.94
52	559111.56	4242767.75	UCART1	24.59
53	559131.56	4242767.75	UCART1	24.80
54	559151.56	4242767.75	UCART1	24.29
55	559171.56	4242767.75	UCART1	24.03
56	559191.56	4242767.75	UCART1	24.13
57	559211.56	4242767.75	UCART1	24.24
58	559231.56	4242767.75	UCART1	24.36
59	559251.56	4242767.75	UCART1	24.43
60	559271.56	4242767.75	UCART1	24.37
61	559291.56	4242767.75	UCART1	24.34
62	559311.56	4242767.75	UCART1	24.33
63	559331.56	4242767.75	UCART1	24.35
64	559351.56	4242767.75	UCART1	24.11
65	559371.56	4242767.75	UCART1	23.72
66	559391.56	4242767.75	UCART1	23.49
67	559411.56	4242767.75	UCART1	23.46
68	559431.56	4242767.75	UCART1	23.83

69	559451.56	4242767.75	UCART1	23.92
70	559471.56	4242767.75	UCART1	23.99
71	559491.56	4242767.75	UCART1	23.82
72	559511.56	4242767.75	UCART1	23.83
73	559531.56	4242767.75	UCART1	23.56
74	559551.56	4242767.75	UCART1	23.36
75	559571.56	4242767.75	UCART1	23.06
76	559691.56	4242767.75	UCART1	23.27
77	559711.56	4242767.75	UCART1	22.91
78	559731.56	4242767.75	UCART1	22.43
79	559751.56	4242767.75	UCART1	22.08
80	559771.56	4242767.75	UCART1	22.23
81	559791.56	4242767.75	UCART1	22.42
82	559811.56	4242767.75	UCART1	21.93
83	559831.56	4242767.75	UCART1	21.48
84	559851.56	4242767.75	UCART1	21.47
85	559871.56	4242767.75	UCART1	21.62
86	559891.56	4242767.75	UCART1	21.57
87	559911.56	4242767.75	UCART1	21.53
88	559931.56	4242767.75	UCART1	20.95
89	559951.56	4242767.75	UCART1	21.54
90	559971.56	4242767.75	UCART1	21.41
91	558991.56	4242787.75	UCART1	24.52
92	559011.56	4242787.75	UCART1	24.99
93	559031.56	4242787.75	UCART1	25.24
94	559051.56	4242787.75	UCART1	24.92
95	559071.56	4242787.75	UCART1	24.54
96	559091.56	4242787.75	UCART1	24.44
97	559111.56	4242787.75	UCART1	24.88
98	559131.56	4242787.75	UCART1	24.84
99	559151.56	4242787.75	UCART1	24.27
100	559171.56	4242787.75	UCART1	24.11
101	559191.56	4242787.75	UCART1	24.27
102	559211.56	4242787.75	UCART1	24.24
103	559231.56	4242787.75	UCART1	24.71
104	559251.56	4242787.75	UCART1	24.63
105	559271.56	4242787.75	UCART1	24.37
106	559291.56	4242787.75	UCART1	24.38

107	559311.56	4242787.75	UCART1	24.32
108	559331.56	4242787.75	UCART1	24.24
109	559351.56	4242787.75	UCART1	23.73
110	559371.56	4242787.75	UCART1	23.57
111	559391.56	4242787.75	UCART1	23.43
112	559411.56	4242787.75	UCART1	23.76
113	559431.56	4242787.75	UCART1	23.91
114	559451.56	4242787.75	UCART1	23.89
115	559471.56	4242787.75	UCART1	23.78
116	559491.56	4242787.75	UCART1	23.75
117	559511.56	4242787.75	UCART1	23.56
118	559531.56	4242787.75	UCART1	23.40
119	559551.56	4242787.75	UCART1	23.18
120	559671.56	4242787.75	UCART1	22.87
121	559691.56	4242787.75	UCART1	23.18
122	559711.56	4242787.75	UCART1	22.76
123	559731.56	4242787.75	UCART1	22.30
124	559751.56	4242787.75	UCART1	21.99
125	559771.56	4242787.75	UCART1	21.96
126	559791.56	4242787.75	UCART1	22.25
127	559811.56	4242787.75	UCART1	22.16
128	559831.56	4242787.75	UCART1	21.99
129	559851.56	4242787.75	UCART1	21.65
130	559871.56	4242787.75	UCART1	21.37
131	559891.56	4242787.75	UCART1	21.17
132	559911.56	4242787.75	UCART1	21.05
133	559931.56	4242787.75	UCART1	20.92
134	559951.56	4242787.75	UCART1	21.51
135	559971.56	4242787.75	UCART1	21.31
136	558991.56	4242807.75	UCART1	24.92
137	559011.56	4242807.75	UCART1	25.09
138	559031.56	4242807.75	UCART1	24.92
139	559051.56	4242807.75	UCART1	24.68
140	559071.56	4242807.75	UCART1	24.46
141	559091.56	4242807.75	UCART1	24.75
142	559111.56	4242807.75	UCART1	24.96
143	559131.56	4242807.75	UCART1	24.44
144	559151.56	4242807.75	UCART1	24.15

145	559171.56	4242807.75	UCART1	24.21
146	559191.56	4242807.75	UCART1	24.46
147	559211.56	4242807.75	UCART1	24.41
148	559231.56	4242807.75	UCART1	24.87
149	559251.56	4242807.75	UCART1	24.98
150	559271.56	4242807.75	UCART1	24.95
151	559291.56	4242807.75	UCART1	24.46
152	559311.56	4242807.75	UCART1	24.41
153	559331.56	4242807.75	UCART1	24.40
154	559351.56	4242807.75	UCART1	24.25
155	559371.56	4242807.75	UCART1	23.48
156	559391.56	4242807.75	UCART1	23.69
157	559411.56	4242807.75	UCART1	23.78
158	559431.56	4242807.75	UCART1	23.92
159	559451.56	4242807.75	UCART1	23.85
160	559471.56	4242807.75	UCART1	23.69
161	559491.56	4242807.75	UCART1	23.52
162	559511.56	4242807.75	UCART1	23.40
163	559531.56	4242807.75	UCART1	23.25
164	559551.56	4242807.75	UCART1	22.84
165	559671.56	4242807.75	UCART1	22.68
166	559691.56	4242807.75	UCART1	22.71
167	559711.56	4242807.75	UCART1	22.49
168	559731.56	4242807.75	UCART1	21.99
169	559751.56	4242807.75	UCART1	21.65
170	559771.56	4242807.75	UCART1	21.49
171	559791.56	4242807.75	UCART1	21.46
172	559811.56	4242807.75	UCART1	21.70
173	559831.56	4242807.75	UCART1	21.92
174	559851.56	4242807.75	UCART1	21.93
175	559871.56	4242807.75	UCART1	21.79
176	559891.56	4242807.75	UCART1	21.66
177	559911.56	4242807.75	UCART1	21.43
178	559931.56	4242807.75	UCART1	21.41
179	559951.56	4242807.75	UCART1	21.57
180	559971.56	4242807.75	UCART1	21.19
181	558991.56	4242827.75	UCART1	25.14
182	559011.56	4242827.75	UCART1	24.98

183	559031.56	4242827.75	UCART1	24.79
184	559051.56	4242827.75	UCART1	24.64
185	559071.56	4242827.75	UCART1	24.77
186	559091.56	4242827.75	UCART1	25.22
187	559111.56	4242827.75	UCART1	24.70
188	559131.56	4242827.75	UCART1	24.18
189	559151.56	4242827.75	UCART1	24.08
190	559171.56	4242827.75	UCART1	24.43
191	559191.56	4242827.75	UCART1	24.45
192	559211.56	4242827.75	UCART1	24.38
193	559231.56	4242827.75	UCART1	24.43
194	559251.56	4242827.75	UCART1	24.82
195	559271.56	4242827.75	UCART1	24.86
196	559291.56	4242827.75	UCART1	24.35
197	559311.56	4242827.75	UCART1	24.35
198	559331.56	4242827.75	UCART1	24.49
199	559351.56	4242827.75	UCART1	23.82
200	559371.56	4242827.75	UCART1	23.57
201	559391.56	4242827.75	UCART1	23.89
202	559411.56	4242827.75	UCART1	23.89
203	559431.56	4242827.75	UCART1	23.88
204	559451.56	4242827.75	UCART1	23.74
205	559471.56	4242827.75	UCART1	23.60
206	559491.56	4242827.75	UCART1	23.41
207	559511.56	4242827.75	UCART1	23.22
208	559531.56	4242827.75	UCART1	22.92
209	559651.56	4242827.75	UCART1	22.50
210	559671.56	4242827.75	UCART1	22.90
211	559691.56	4242827.75	UCART1	22.78
212	559711.56	4242827.75	UCART1	22.44
213	559731.56	4242827.75	UCART1	21.91
214	559751.56	4242827.75	UCART1	21.70
215	559771.56	4242827.75	UCART1	21.67
216	559791.56	4242827.75	UCART1	21.31
217	559811.56	4242827.75	UCART1	21.17
218	559831.56	4242827.75	UCART1	21.13
219	559851.56	4242827.75	UCART1	21.13
220	559871.56	4242827.75	UCART1	21.17

221	559891.56	4242827.75	UCART1	21.25
222	559911.56	4242827.75	UCART1	21.39
223	559931.56	4242827.75	UCART1	21.50
224	559951.56	4242827.75	UCART1	21.39
225	559971.56	4242827.75	UCART1	21.24
226	558991.56	4242847.75	UCART1	24.70
227	559011.56	4242847.75	UCART1	25.05
228	559031.56	4242847.75	UCART1	24.87
229	559051.56	4242847.75	UCART1	24.79
230	559071.56	4242847.75	UCART1	25.09
231	559091.56	4242847.75	UCART1	24.96
232	559111.56	4242847.75	UCART1	24.29
233	559131.56	4242847.75	UCART1	24.09
234	559151.56	4242847.75	UCART1	24.29
235	559171.56	4242847.75	UCART1	24.37
236	559191.56	4242847.75	UCART1	24.40
237	559211.56	4242847.75	UCART1	24.38
238	559231.56	4242847.75	UCART1	24.39
239	559251.56	4242847.75	UCART1	24.42
240	559271.56	4242847.75	UCART1	24.36
241	559291.56	4242847.75	UCART1	24.16
242	559311.56	4242847.75	UCART1	24.17
243	559331.56	4242847.75	UCART1	24.09
244	559351.56	4242847.75	UCART1	23.75
245	559371.56	4242847.75	UCART1	23.79
246	559391.56	4242847.75	UCART1	23.82
247	559411.56	4242847.75	UCART1	23.87
248	559431.56	4242847.75	UCART1	23.78
249	559451.56	4242847.75	UCART1	23.62
250	559471.56	4242847.75	UCART1	23.40
251	559491.56	4242847.75	UCART1	23.29
252	559511.56	4242847.75	UCART1	23.08
253	559631.56	4242847.75	UCART1	22.23
254	559651.56	4242847.75	UCART1	22.25
255	559671.56	4242847.75	UCART1	22.48
256	559691.56	4242847.75	UCART1	22.63
257	559711.56	4242847.75	UCART1	22.48
258	559731.56	4242847.75	UCART1	21.87

259	559751.56	4242847.75	UCART1	22.18
260	559771.56	4242847.75	UCART1	21.82
261	559791.56	4242847.75	UCART1	21.74
262	559811.56	4242847.75	UCART1	21.53
263	559831.56	4242847.75	UCART1	21.27
264	559851.56	4242847.75	UCART1	21.08
265	559871.56	4242847.75	UCART1	20.92
266	559891.56	4242847.75	UCART1	20.77
267	559911.56	4242847.75	UCART1	20.66
268	559931.56	4242847.75	UCART1	20.62
269	559951.56	4242847.75	UCART1	20.64
270	559971.56	4242847.75	UCART1	20.69
271	558991.56	4242867.75	UCART1	24.61
272	559011.56	4242867.75	UCART1	24.81
273	559031.56	4242867.75	UCART1	25.06
274	559051.56	4242867.75	UCART1	25.05
275	559071.56	4242867.75	UCART1	25.12
276	559091.56	4242867.75	UCART1	24.51
277	559111.56	4242867.75	UCART1	24.23
278	559131.56	4242867.75	UCART1	24.23
279	559151.56	4242867.75	UCART1	24.39
280	559171.56	4242867.75	UCART1	24.40
281	559191.56	4242867.75	UCART1	24.38
282	559211.56	4242867.75	UCART1	24.58
283	559231.56	4242867.75	UCART1	24.37
284	559251.56	4242867.75	UCART1	24.38
285	559271.56	4242867.75	UCART1	24.29
286	559291.56	4242867.75	UCART1	24.26
287	559311.56	4242867.75	UCART1	24.22
288	559331.56	4242867.75	UCART1	23.98
289	559351.56	4242867.75	UCART1	23.82
290	559371.56	4242867.75	UCART1	23.57
291	559391.56	4242867.75	UCART1	23.82
292	559411.56	4242867.75	UCART1	23.78
293	559431.56	4242867.75	UCART1	23.69
294	559451.56	4242867.75	UCART1	23.45
295	559471.56	4242867.75	UCART1	23.31
296	559491.56	4242867.75	UCART1	23.15

297	559511.56	4242867.75	UCART1	22.82
298	559631.56	4242867.75	UCART1	22.37
299	559651.56	4242867.75	UCART1	22.14
300	559671.56	4242867.75	UCART1	22.02
301	559691.56	4242867.75	UCART1	22.10
302	559711.56	4242867.75	UCART1	22.14
303	559731.56	4242867.75	UCART1	21.77
304	559751.56	4242867.75	UCART1	22.33
305	559771.56	4242867.75	UCART1	22.01
306	559791.56	4242867.75	UCART1	21.90
307	559811.56	4242867.75	UCART1	21.75
308	559831.56	4242867.75	UCART1	21.58
309	559851.56	4242867.75	UCART1	21.49
310	559871.56	4242867.75	UCART1	21.32
311	559891.56	4242867.75	UCART1	21.21
312	559911.56	4242867.75	UCART1	20.99
313	559931.56	4242867.75	UCART1	20.78
314	559951.56	4242867.75	UCART1	20.59
315	559971.56	4242867.75	UCART1	20.49
316	558991.56	4242887.75	UCART1	25.00
317	559011.56	4242887.75	UCART1	24.69
318	559031.56	4242887.75	UCART1	24.85
319	559051.56	4242887.75	UCART1	25.08
320	559071.56	4242887.75	UCART1	24.77
321	559091.56	4242887.75	UCART1	24.43
322	559111.56	4242887.75	UCART1	24.35
323	559131.56	4242887.75	UCART1	24.34
324	559151.56	4242887.75	UCART1	24.37
325	559171.56	4242887.75	UCART1	24.40
326	559191.56	4242887.75	UCART1	24.31
327	559211.56	4242887.75	UCART1	24.34
328	559231.56	4242887.75	UCART1	24.36
329	559251.56	4242887.75	UCART1	24.36
330	559271.56	4242887.75	UCART1	24.32
331	559291.56	4242887.75	UCART1	24.46
332	559311.56	4242887.75	UCART1	24.27
333	559331.56	4242887.75	UCART1	23.69
334	559351.56	4242887.75	UCART1	23.82

335	559371.56	4242887.75	UCART1	23.56
336	559391.56	4242887.75	UCART1	23.53
337	559411.56	4242887.75	UCART1	23.63
338	559431.56	4242887.75	UCART1	23.51
339	559451.56	4242887.75	UCART1	23.34
340	559471.56	4242887.75	UCART1	23.20
341	559491.56	4242887.75	UCART1	22.88
342	559611.56	4242887.75	UCART1	22.54
343	559631.56	4242887.75	UCART1	22.40
344	559651.56	4242887.75	UCART1	22.28
345	559671.56	4242887.75	UCART1	22.01
346	559691.56	4242887.75	UCART1	21.81
347	559711.56	4242887.75	UCART1	21.65
348	559731.56	4242887.75	UCART1	21.59
349	559751.56	4242887.75	UCART1	21.74
350	559771.56	4242887.75	UCART1	21.70
351	559791.56	4242887.75	UCART1	21.83
352	559811.56	4242887.75	UCART1	21.81
353	559831.56	4242887.75	UCART1	21.84
354	559851.56	4242887.75	UCART1	21.76
355	559871.56	4242887.75	UCART1	21.68
356	559891.56	4242887.75	UCART1	21.47
357	559911.56	4242887.75	UCART1	21.30
358	559931.56	4242887.75	UCART1	21.16
359	559951.56	4242887.75	UCART1	21.07
360	559971.56	4242887.75	UCART1	20.88
361	558991.56	4242907.75	UCART1	24.90
362	559011.56	4242907.75	UCART1	25.15
363	559031.56	4242907.75	UCART1	24.73
364	559051.56	4242907.75	UCART1	24.66
365	559071.56	4242907.75	UCART1	24.51
366	559091.56	4242907.75	UCART1	24.58
367	559111.56	4242907.75	UCART1	24.56
368	559131.56	4242907.75	UCART1	24.42
369	559151.56	4242907.75	UCART1	24.36
370	559171.56	4242907.75	UCART1	24.31
371	559191.56	4242907.75	UCART1	24.29
372	559211.56	4242907.75	UCART1	24.29

373	559231.56	4242907.75	UCART1	24.35
374	559251.56	4242907.75	UCART1	24.41
375	559271.56	4242907.75	UCART1	24.46
376	559291.56	4242907.75	UCART1	24.36
377	559311.56	4242907.75	UCART1	24.04
378	559331.56	4242907.75	UCART1	23.55
379	559351.56	4242907.75	UCART1	23.98
380	559371.56	4242907.75	UCART1	23.96
381	559391.56	4242907.75	UCART1	23.71
382	559411.56	4242907.75	UCART1	23.52
383	559431.56	4242907.75	UCART1	23.65
384	559451.56	4242907.75	UCART1	23.59
385	559471.56	4242907.75	UCART1	23.28
386	559491.56	4242907.75	UCART1	22.79
387	559591.56	4242907.75	UCART1	22.58
388	559611.56	4242907.75	UCART1	22.85
389	559631.56	4242907.75	UCART1	22.76
390	559651.56	4242907.75	UCART1	22.43
391	559671.56	4242907.75	UCART1	22.17
392	559691.56	4242907.75	UCART1	22.14
393	559711.56	4242907.75	UCART1	21.84
394	559731.56	4242907.75	UCART1	21.70
395	559751.56	4242907.75	UCART1	21.67
396	559771.56	4242907.75	UCART1	21.52
397	559791.56	4242907.75	UCART1	21.41
398	559811.56	4242907.75	UCART1	21.35
399	559831.56	4242907.75	UCART1	21.35
400	559851.56	4242907.75	UCART1	21.43
401	559871.56	4242907.75	UCART1	21.55
402	559891.56	4242907.75	UCART1	21.59
403	559911.56	4242907.75	UCART1	21.62
404	559931.56	4242907.75	UCART1	21.63
405	559951.56	4242907.75	UCART1	21.39
406	559971.56	4242907.75	UCART1	20.87
407	558991.56	4242927.75	UCART1	24.79
408	559011.56	4242927.75	UCART1	25.40
409	559031.56	4242927.75	UCART1	25.50
410	559051.56	4242927.75	UCART1	24.58

411	559071.56	4242927.75	UCART1	24.61
412	559091.56	4242927.75	UCART1	24.79
413	559111.56	4242927.75	UCART1	24.71
414	559131.56	4242927.75	UCART1	24.71
415	559151.56	4242927.75	UCART1	24.35
416	559171.56	4242927.75	UCART1	24.26
417	559191.56	4242927.75	UCART1	24.27
418	559211.56	4242927.75	UCART1	24.20
419	559231.56	4242927.75	UCART1	24.35
420	559251.56	4242927.75	UCART1	24.42
421	559271.56	4242927.75	UCART1	24.50
422	559291.56	4242927.75	UCART1	24.34
423	559311.56	4242927.75	UCART1	23.48
424	559331.56	4242927.75	UCART1	23.80
425	559351.56	4242927.75	UCART1	24.09
426	559371.56	4242927.75	UCART1	24.11
427	559391.56	4242927.75	UCART1	24.03
428	559411.56	4242927.75	UCART1	23.86
429	559431.56	4242927.75	UCART1	23.67
430	559451.56	4242927.75	UCART1	23.42
431	559471.56	4242927.75	UCART1	22.94
432	559591.56	4242927.75	UCART1	22.48
433	559611.56	4242927.75	UCART1	22.41
434	559631.56	4242927.75	UCART1	22.78
435	559651.56	4242927.75	UCART1	22.72
436	559671.56	4242927.75	UCART1	22.52
437	559691.56	4242927.75	UCART1	22.17
438	559711.56	4242927.75	UCART1	21.93
439	559731.56	4242927.75	UCART1	21.92
440	559751.56	4242927.75	UCART1	21.92
441	559771.56	4242927.75	UCART1	21.80
442	559791.56	4242927.75	UCART1	21.76
443	559811.56	4242927.75	UCART1	21.68
444	559831.56	4242927.75	UCART1	21.50
445	559851.56	4242927.75	UCART1	21.26
446	559871.56	4242927.75	UCART1	21.15
447	559891.56	4242927.75	UCART1	21.06
448	559911.56	4242927.75	UCART1	21.05

449	559931.56	4242927.75	UCART1	21.10
450	559951.56	4242927.75	UCART1	21.13
451	559971.56	4242927.75	UCART1	20.84
452	558991.56	4242947.75	UCART1	25.00
453	559011.56	4242947.75	UCART1	24.79
454	559031.56	4242947.75	UCART1	24.77
455	559051.56	4242947.75	UCART1	24.47
456	559071.56	4242947.75	UCART1	24.56
457	559091.56	4242947.75	UCART1	24.64
458	559111.56	4242947.75	UCART1	24.71
459	559131.56	4242947.75	UCART1	24.68
460	559151.56	4242947.75	UCART1	24.41
461	559171.56	4242947.75	UCART1	24.21
462	559191.56	4242947.75	UCART1	24.15
463	559211.56	4242947.75	UCART1	24.13
464	559231.56	4242947.75	UCART1	24.24
465	559251.56	4242947.75	UCART1	24.29
466	559271.56	4242947.75	UCART1	24.37
467	559291.56	4242947.75	UCART1	24.14
468	559311.56	4242947.75	UCART1	23.81
469	559331.56	4242947.75	UCART1	24.05
470	559351.56	4242947.75	UCART1	24.07
471	559371.56	4242947.75	UCART1	24.08
472	559391.56	4242947.75	UCART1	24.11
473	559411.56	4242947.75	UCART1	24.13
474	559431.56	4242947.75	UCART1	23.78
475	559451.56	4242947.75	UCART1	23.36
476	559571.56	4242947.75	UCART1	22.55
477	559591.56	4242947.75	UCART1	22.18
478	559611.56	4242947.75	UCART1	22.19
479	559631.56	4242947.75	UCART1	22.66
480	559651.56	4242947.75	UCART1	22.47
481	559671.56	4242947.75	UCART1	22.69
482	559691.56	4242947.75	UCART1	22.17
483	559711.56	4242947.75	UCART1	22.04
484	559731.56	4242947.75	UCART1	22.21
485	559751.56	4242947.75	UCART1	21.84
486	559771.56	4242947.75	UCART1	21.87

487	559791.56	4242947.75	UCART1	21.70
488	559811.56	4242947.75	UCART1	21.62
489	559831.56	4242947.75	UCART1	21.48
490	559851.56	4242947.75	UCART1	21.36
491	559871.56	4242947.75	UCART1	21.26
492	559891.56	4242947.75	UCART1	21.15
493	559911.56	4242947.75	UCART1	21.15
494	559931.56	4242947.75	UCART1	21.05
495	559951.56	4242947.75	UCART1	20.91
496	559971.56	4242947.75	UCART1	20.82
497	558991.56	4242967.75	UCART1	24.73
498	559011.56	4242967.75	UCART1	24.65
499	559031.56	4242967.75	UCART1	24.34
500	559051.56	4242967.75	UCART1	24.53
501	559071.56	4242967.75	UCART1	24.37
502	559091.56	4242967.75	UCART1	24.60
503	559111.56	4242967.75	UCART1	24.52
504	559131.56	4242967.75	UCART1	24.39
505	559151.56	4242967.75	UCART1	24.24
506	559171.56	4242967.75	UCART1	24.15
507	559191.56	4242967.75	UCART1	24.07
508	559211.56	4242967.75	UCART1	24.06
509	559231.56	4242967.75	UCART1	24.11
510	559251.56	4242967.75	UCART1	24.12
511	559271.56	4242967.75	UCART1	24.12
512	559291.56	4242967.75	UCART1	24.19
513	559311.56	4242967.75	UCART1	24.09
514	559331.56	4242967.75	UCART1	24.13
515	559351.56	4242967.75	UCART1	24.08
516	559371.56	4242967.75	UCART1	24.17
517	559391.56	4242967.75	UCART1	24.08
518	559411.56	4242967.75	UCART1	24.03
519	559431.56	4242967.75	UCART1	23.72
520	559451.56	4242967.75	UCART1	22.95
521	559551.56	4242967.75	UCART1	22.70
522	559571.56	4242967.75	UCART1	22.69
523	559591.56	4242967.75	UCART1	22.35
524	559611.56	4242967.75	UCART1	22.30

525	559631.56	4242967.75	UCART1	22.29
526	559651.56	4242967.75	UCART1	22.18
527	559671.56	4242967.75	UCART1	22.66
528	559691.56	4242967.75	UCART1	22.21
529	559711.56	4242967.75	UCART1	22.13
530	559731.56	4242967.75	UCART1	22.05
531	559751.56	4242967.75	UCART1	21.83
532	559771.56	4242967.75	UCART1	21.81
533	559791.56	4242967.75	UCART1	21.70
534	559811.56	4242967.75	UCART1	21.46
535	559831.56	4242967.75	UCART1	21.48
536	559851.56	4242967.75	UCART1	21.45
537	559871.56	4242967.75	UCART1	21.35
538	559891.56	4242967.75	UCART1	21.13
539	559911.56	4242967.75	UCART1	21.25
540	559931.56	4242967.75	UCART1	21.16
541	559951.56	4242967.75	UCART1	20.98
542	559971.56	4242967.75	UCART1	20.72
543	558991.56	4242987.75	UCART1	24.11
544	559011.56	4242987.75	UCART1	24.17
545	559031.56	4242987.75	UCART1	24.61
546	559051.56	4242987.75	UCART1	24.94
547	559071.56	4242987.75	UCART1	24.53
548	559091.56	4242987.75	UCART1	24.37
549	559111.56	4242987.75	UCART1	24.27
550	559131.56	4242987.75	UCART1	24.24
551	559151.56	4242987.75	UCART1	24.11
552	559171.56	4242987.75	UCART1	24.05
553	559191.56	4242987.75	UCART1	24.21
554	559211.56	4242987.75	UCART1	24.16
555	559231.56	4242987.75	UCART1	23.97
556	559251.56	4242987.75	UCART1	23.86
557	559271.56	4242987.75	UCART1	24.11
558	559291.56	4242987.75	UCART1	24.16
559	559311.56	4242987.75	UCART1	24.20
560	559331.56	4242987.75	UCART1	24.10
561	559351.56	4242987.75	UCART1	24.16
562	559371.56	4242987.75	UCART1	24.26

563	559391.56	4242987.75	UCART1	23.93
564	559411.56	4242987.75	UCART1	23.90
565	559431.56	4242987.75	UCART1	23.27
566	559551.56	4242987.75	UCART1	23.06
567	559571.56	4242987.75	UCART1	22.74
568	559591.56	4242987.75	UCART1	22.55
569	559611.56	4242987.75	UCART1	22.70
570	559631.56	4242987.75	UCART1	22.66
571	559651.56	4242987.75	UCART1	22.64
572	559671.56	4242987.75	UCART1	22.70
573	559691.56	4242987.75	UCART1	22.37
574	559711.56	4242987.75	UCART1	22.22
575	559731.56	4242987.75	UCART1	22.00
576	559751.56	4242987.75	UCART1	21.78
577	559771.56	4242987.75	UCART1	21.72
578	559791.56	4242987.75	UCART1	21.65
579	559811.56	4242987.75	UCART1	21.32
580	559831.56	4242987.75	UCART1	21.22
581	559851.56	4242987.75	UCART1	21.19
582	559871.56	4242987.75	UCART1	21.17
583	559891.56	4242987.75	UCART1	21.08
584	559911.56	4242987.75	UCART1	21.34
585	559931.56	4242987.75	UCART1	21.33
586	559951.56	4242987.75	UCART1	21.12
587	559971.56	4242987.75	UCART1	20.68
588	558991.56	4243007.75	UCART1	24.84
589	559011.56	4243007.75	UCART1	24.24
590	559031.56	4243007.75	UCART1	24.93
591	559051.56	4243007.75	UCART1	24.99
592	559071.56	4243007.75	UCART1	24.59
593	559091.56	4243007.75	UCART1	23.79
594	559111.56	4243007.75	UCART1	23.96
595	559131.56	4243007.75	UCART1	24.68
596	559151.56	4243007.75	UCART1	24.76
597	559171.56	4243007.75	UCART1	24.71
598	559191.56	4243007.75	UCART1	24.57
599	559211.56	4243007.75	UCART1	24.52
600	559231.56	4243007.75	UCART1	24.26

601	559251.56	4243007.75	UCART1	23.82
602	559271.56	4243007.75	UCART1	23.76
603	559291.56	4243007.75	UCART1	24.04
604	559311.56	4243007.75	UCART1	24.16
605	559331.56	4243007.75	UCART1	24.10
606	559351.56	4243007.75	UCART1	24.15
607	559371.56	4243007.75	UCART1	24.11
608	559391.56	4243007.75	UCART1	23.84
609	559411.56	4243007.75	UCART1	23.53
610	559531.56	4243007.75	UCART1	22.97
611	559551.56	4243007.75	UCART1	23.18
612	559571.56	4243007.75	UCART1	22.42
613	559591.56	4243007.75	UCART1	22.12
614	559611.56	4243007.75	UCART1	22.06
615	559631.56	4243007.75	UCART1	22.11
616	559651.56	4243007.75	UCART1	22.16
617	559671.56	4243007.75	UCART1	22.30
618	559691.56	4243007.75	UCART1	22.31
619	559711.56	4243007.75	UCART1	22.47
620	559731.56	4243007.75	UCART1	22.05
621	559751.56	4243007.75	UCART1	21.78
622	559771.56	4243007.75	UCART1	21.64
623	559791.56	4243007.75	UCART1	21.60
624	559811.56	4243007.75	UCART1	21.46
625	559831.56	4243007.75	UCART1	21.25
626	559851.56	4243007.75	UCART1	21.13
627	559871.56	4243007.75	UCART1	20.89
628	559891.56	4243007.75	UCART1	20.86
629	559911.56	4243007.75	UCART1	20.94
630	559931.56	4243007.75	UCART1	21.08
631	559951.56	4243007.75	UCART1	20.82
632	559971.56	4243007.75	UCART1	20.72
633	558991.56	4243027.75	UCART1	25.02
634	559011.56	4243027.75	UCART1	24.33
635	559031.56	4243027.75	UCART1	25.06
636	559051.56	4243027.75	UCART1	25.13
637	559071.56	4243027.75	UCART1	24.73
638	559091.56	4243027.75	UCART1	23.88

639	559111.56	4243027.75	UCART1	23.97
640	559131.56	4243027.75	UCART1	24.84
641	559151.56	4243027.75	UCART1	24.40
642	559171.56	4243027.75	UCART1	24.18
643	559191.56	4243027.75	UCART1	24.41
644	559211.56	4243027.75	UCART1	24.65
645	559231.56	4243027.75	UCART1	24.76
646	559251.56	4243027.75	UCART1	23.88
647	559271.56	4243027.75	UCART1	23.76
648	559291.56	4243027.75	UCART1	23.76
649	559311.56	4243027.75	UCART1	23.82
650	559331.56	4243027.75	UCART1	23.81
651	559351.56	4243027.75	UCART1	23.66
652	559371.56	4243027.75	UCART1	23.87
653	559391.56	4243027.75	UCART1	23.37
654	559411.56	4243027.75	UCART1	23.13
655	559511.56	4243027.75	UCART1	22.70
656	559531.56	4243027.75	UCART1	22.66
657	559551.56	4243027.75	UCART1	22.79
658	559571.56	4243027.75	UCART1	22.15
659	559591.56	4243027.75	UCART1	22.09
660	559611.56	4243027.75	UCART1	22.02
661	559631.56	4243027.75	UCART1	21.99
662	559651.56	4243027.75	UCART1	21.98
663	559671.56	4243027.75	UCART1	21.91
664	559691.56	4243027.75	UCART1	21.73
665	559711.56	4243027.75	UCART1	21.74
666	559731.56	4243027.75	UCART1	21.72
667	559751.56	4243027.75	UCART1	21.64
668	559771.56	4243027.75	UCART1	21.52
669	559791.56	4243027.75	UCART1	21.47
670	559811.56	4243027.75	UCART1	21.39
671	559831.56	4243027.75	UCART1	21.24
672	559851.56	4243027.75	UCART1	21.17
673	559871.56	4243027.75	UCART1	21.02
674	559891.56	4243027.75	UCART1	21.14
675	559911.56	4243027.75	UCART1	20.98
676	559931.56	4243027.75	UCART1	20.74

677	559951.56	4243027.75	UCART1	20.63
678	559971.56	4243027.75	UCART1	20.63
679	558991.56	4243047.75	UCART1	25.22
680	559011.56	4243047.75	UCART1	24.38
681	559031.56	4243047.75	UCART1	24.81
682	559051.56	4243047.75	UCART1	25.14
683	559071.56	4243047.75	UCART1	24.83
684	559091.56	4243047.75	UCART1	24.00
685	559111.56	4243047.75	UCART1	24.24
686	559131.56	4243047.75	UCART1	24.45
687	559151.56	4243047.75	UCART1	24.09
688	559171.56	4243047.75	UCART1	24.60
689	559191.56	4243047.75	UCART1	24.37
690	559211.56	4243047.75	UCART1	24.17
691	559231.56	4243047.75	UCART1	24.19
692	559251.56	4243047.75	UCART1	23.77
693	559271.56	4243047.75	UCART1	23.92
694	559291.56	4243047.75	UCART1	23.67
695	559311.56	4243047.75	UCART1	23.29
696	559331.56	4243047.75	UCART1	23.32
697	559351.56	4243047.75	UCART1	23.35
698	559371.56	4243047.75	UCART1	23.45
699	559391.56	4243047.75	UCART1	23.26
700	559491.56	4243047.75	UCART1	22.87
701	559511.56	4243047.75	UCART1	22.80
702	559531.56	4243047.75	UCART1	22.44
703	559551.56	4243047.75	UCART1	22.19
704	559571.56	4243047.75	UCART1	21.66
705	559591.56	4243047.75	UCART1	21.55
706	559611.56	4243047.75	UCART1	21.52
707	559631.56	4243047.75	UCART1	21.63
708	559651.56	4243047.75	UCART1	21.63
709	559671.56	4243047.75	UCART1	21.75
710	559691.56	4243047.75	UCART1	21.73
711	559711.56	4243047.75	UCART1	21.69
712	559731.56	4243047.75	UCART1	21.59
713	559751.56	4243047.75	UCART1	21.49
714	559771.56	4243047.75	UCART1	21.48

715	559791.56	4243047.75	UCART1	21.51
716	559811.56	4243047.75	UCART1	21.43
717	559831.56	4243047.75	UCART1	21.43
718	559851.56	4243047.75	UCART1	21.39
719	559871.56	4243047.75	UCART1	21.27
720	559891.56	4243047.75	UCART1	21.36
721	559911.56	4243047.75	UCART1	21.45
722	559931.56	4243047.75	UCART1	21.40
723	559951.56	4243047.75	UCART1	20.66
724	559971.56	4243047.75	UCART1	21.11
725	558991.56	4243067.75	UCART1	25.25
726	559011.56	4243067.75	UCART1	24.67
727	559031.56	4243067.75	UCART1	24.30
728	559051.56	4243067.75	UCART1	24.92
729	559071.56	4243067.75	UCART1	24.24
730	559091.56	4243067.75	UCART1	24.11
731	559111.56	4243067.75	UCART1	24.92
732	559131.56	4243067.75	UCART1	24.79
733	559151.56	4243067.75	UCART1	24.06
734	559171.56	4243067.75	UCART1	24.95
735	559191.56	4243067.75	UCART1	24.91
736	559211.56	4243067.75	UCART1	24.09
737	559231.56	4243067.75	UCART1	23.94
738	559251.56	4243067.75	UCART1	24.07
739	559271.56	4243067.75	UCART1	23.96
740	559291.56	4243067.75	UCART1	23.54
741	559311.56	4243067.75	UCART1	23.24
742	559331.56	4243067.75	UCART1	23.38
743	559351.56	4243067.75	UCART1	23.30
744	559371.56	4243067.75	UCART1	23.26
745	559391.56	4243067.75	UCART1	22.78
746	559491.56	4243067.75	UCART1	22.87
747	559511.56	4243067.75	UCART1	22.92
748	559531.56	4243067.75	UCART1	22.90
749	559551.56	4243067.75	UCART1	22.93
750	559571.56	4243067.75	UCART1	22.26
751	559591.56	4243067.75	UCART1	22.12
752	559611.56	4243067.75	UCART1	21.75

753	559631.56	4243067.75	UCART1	21.49
754	559651.56	4243067.75	UCART1	21.29
755	559671.56	4243067.75	UCART1	21.13
756	559691.56	4243067.75	UCART1	21.06
757	559711.56	4243067.75	UCART1	21.14
758	559731.56	4243067.75	UCART1	21.27
759	559751.56	4243067.75	UCART1	21.40
760	559771.56	4243067.75	UCART1	21.42
761	559791.56	4243067.75	UCART1	21.45
762	559811.56	4243067.75	UCART1	21.47
763	559831.56	4243067.75	UCART1	21.31
764	559851.56	4243067.75	UCART1	21.53
765	559871.56	4243067.75	UCART1	21.47
766	559891.56	4243067.75	UCART1	21.43
767	559911.56	4243067.75	UCART1	21.30
768	559931.56	4243067.75	UCART1	21.16
769	559951.56	4243067.75	UCART1	20.59
770	559971.56	4243067.75	UCART1	21.21
771	558991.56	4243087.75	UCART1	25.65
772	559011.56	4243087.75	UCART1	25.07
773	559031.56	4243087.75	UCART1	24.33
774	559051.56	4243087.75	UCART1	24.15
775	559071.56	4243087.75	UCART1	24.05
776	559091.56	4243087.75	UCART1	24.78
777	559111.56	4243087.75	UCART1	24.91
778	559131.56	4243087.75	UCART1	24.37
779	559151.56	4243087.75	UCART1	24.39
780	559171.56	4243087.75	UCART1	25.14
781	559191.56	4243087.75	UCART1	24.67
782	559211.56	4243087.75	UCART1	24.04
783	559231.56	4243087.75	UCART1	24.17
784	559251.56	4243087.75	UCART1	24.19
785	559271.56	4243087.75	UCART1	23.95
786	559291.56	4243087.75	UCART1	23.58
787	559311.56	4243087.75	UCART1	23.39
788	559331.56	4243087.75	UCART1	23.35
789	559351.56	4243087.75	UCART1	23.28
790	559371.56	4243087.75	UCART1	23.26

791	559491.56	4243087.75	UCART1	20.92
792	559511.56	4243087.75	UCART1	21.57
793	559531.56	4243087.75	UCART1	22.31
794	559551.56	4243087.75	UCART1	22.44
795	559571.56	4243087.75	UCART1	22.18
796	559591.56	4243087.75	UCART1	22.18
797	559611.56	4243087.75	UCART1	22.03
798	559631.56	4243087.75	UCART1	22.04
799	559651.56	4243087.75	UCART1	21.99
800	559671.56	4243087.75	UCART1	21.81
801	559691.56	4243087.75	UCART1	21.55
802	559711.56	4243087.75	UCART1	21.25
803	559731.56	4243087.75	UCART1	20.98
804	559751.56	4243087.75	UCART1	20.92
805	559771.56	4243087.75	UCART1	20.99
806	559791.56	4243087.75	UCART1	20.92
807	559811.56	4243087.75	UCART1	20.83
808	559831.56	4243087.75	UCART1	20.79
809	559851.56	4243087.75	UCART1	20.77
810	559871.56	4243087.75	UCART1	20.71
811	559891.56	4243087.75	UCART1	20.64
812	559911.56	4243087.75	UCART1	20.59
813	559931.56	4243087.75	UCART1	20.52
814	559951.56	4243087.75	UCART1	20.53
815	559971.56	4243087.75	UCART1	21.32
816	558991.56	4243107.75	UCART1	25.93
817	559011.56	4243107.75	UCART1	25.41
818	559031.56	4243107.75	UCART1	24.89
819	559051.56	4243107.75	UCART1	24.32
820	559071.56	4243107.75	UCART1	24.29
821	559091.56	4243107.75	UCART1	24.95
822	559111.56	4243107.75	UCART1	24.81
823	559131.56	4243107.75	UCART1	24.16
824	559151.56	4243107.75	UCART1	24.99
825	559171.56	4243107.75	UCART1	25.01
826	559191.56	4243107.75	UCART1	24.20
827	559211.56	4243107.75	UCART1	23.95
828	559231.56	4243107.75	UCART1	23.91

829	559251.56	4243107.75	UCART1	23.87
830	559271.56	4243107.75	UCART1	23.77
831	559291.56	4243107.75	UCART1	23.66
832	559311.56	4243107.75	UCART1	23.59
833	559331.56	4243107.75	UCART1	23.47
834	559351.56	4243107.75	UCART1	23.43
835	559471.56	4243107.75	UCART1	22.98
836	559491.56	4243107.75	UCART1	22.77
837	559511.56	4243107.75	UCART1	22.41
838	559531.56	4243107.75	UCART1	21.86
839	559551.56	4243107.75	UCART1	20.93
840	559571.56	4243107.75	UCART1	20.64
841	559591.56	4243107.75	UCART1	21.17
842	559611.56	4243107.75	UCART1	21.88
843	559631.56	4243107.75	UCART1	22.04
844	559651.56	4243107.75	UCART1	21.95
845	559671.56	4243107.75	UCART1	21.84
846	559691.56	4243107.75	UCART1	21.77
847	559711.56	4243107.75	UCART1	21.62
848	559731.56	4243107.75	UCART1	21.61
849	559751.56	4243107.75	UCART1	21.55
850	559771.56	4243107.75	UCART1	21.51
851	559791.56	4243107.75	UCART1	21.39
852	559811.56	4243107.75	UCART1	21.42
853	559831.56	4243107.75	UCART1	21.50
854	559851.56	4243107.75	UCART1	21.50
855	559871.56	4243107.75	UCART1	21.53
856	559891.56	4243107.75	UCART1	21.53
857	559911.56	4243107.75	UCART1	21.35
858	559931.56	4243107.75	UCART1	21.01
859	559951.56	4243107.75	UCART1	20.75
860	559971.56	4243107.75	UCART1	21.24
861	558991.56	4243127.75	UCART1	25.62
862	559011.56	4243127.75	UCART1	25.80
863	559031.56	4243127.75	UCART1	25.18
864	559051.56	4243127.75	UCART1	24.98
865	559071.56	4243127.75	UCART1	24.26
866	559091.56	4243127.75	UCART1	25.02

867	559111.56	4243127.75	UCART1	25.11
868	559131.56	4243127.75	UCART1	24.37
869	559151.56	4243127.75	UCART1	24.82
870	559171.56	4243127.75	UCART1	24.45
871	559191.56	4243127.75	UCART1	24.11
872	559211.56	4243127.75	UCART1	23.81
873	559231.56	4243127.75	UCART1	23.65
874	559251.56	4243127.75	UCART1	23.54
875	559271.56	4243127.75	UCART1	23.67
876	559291.56	4243127.75	UCART1	23.78
877	559311.56	4243127.75	UCART1	23.76
878	559331.56	4243127.75	UCART1	23.57
879	559351.56	4243127.75	UCART1	23.27
880	559471.56	4243127.75	UCART1	23.10
881	559491.56	4243127.75	UCART1	22.83
882	559511.56	4243127.75	UCART1	22.68
883	559531.56	4243127.75	UCART1	22.58
884	559551.56	4243127.75	UCART1	22.37
885	559571.56	4243127.75	UCART1	22.31
886	559591.56	4243127.75	UCART1	22.17
887	559611.56	4243127.75	UCART1	21.61
888	559631.56	4243127.75	UCART1	20.80
889	559651.56	4243127.75	UCART1	20.38
890	559671.56	4243127.75	UCART1	21.00
891	559691.56	4243127.75	UCART1	21.68
892	559711.56	4243127.75	UCART1	21.70
893	559731.56	4243127.75	UCART1	21.73
894	559751.56	4243127.75	UCART1	21.75
895	559771.56	4243127.75	UCART1	21.54
896	559791.56	4243127.75	UCART1	21.48
897	559811.56	4243127.75	UCART1	21.38
898	559831.56	4243127.75	UCART1	21.20
899	559851.56	4243127.75	UCART1	20.72
900	559871.56	4243127.75	UCART1	20.65
901	559891.56	4243127.75	UCART1	20.66
902	559911.56	4243127.75	UCART1	20.56
903	559931.56	4243127.75	UCART1	20.52
904	559951.56	4243127.75	UCART1	20.28

905	559971.56	4243127.75	UCART1	20.39
906	558991.56	4243147.75	UCART1	24.93
907	559011.56	4243147.75	UCART1	25.23
908	559031.56	4243147.75	UCART1	25.44
909	559051.56	4243147.75	UCART1	25.19
910	559071.56	4243147.75	UCART1	24.51
911	559091.56	4243147.75	UCART1	24.98
912	559111.56	4243147.75	UCART1	25.43
913	559131.56	4243147.75	UCART1	24.89
914	559151.56	4243147.75	UCART1	24.09
915	559171.56	4243147.75	UCART1	24.22
916	559191.56	4243147.75	UCART1	24.25
917	559211.56	4243147.75	UCART1	23.87
918	559231.56	4243147.75	UCART1	23.68
919	559251.56	4243147.75	UCART1	23.53
920	559271.56	4243147.75	UCART1	23.78
921	559291.56	4243147.75	UCART1	23.86
922	559311.56	4243147.75	UCART1	23.74
923	559331.56	4243147.75	UCART1	23.49
924	559451.56	4243147.75	UCART1	23.18
925	559471.56	4243147.75	UCART1	22.93
926	559491.56	4243147.75	UCART1	22.65
927	559511.56	4243147.75	UCART1	22.57
928	559531.56	4243147.75	UCART1	22.45
929	559551.56	4243147.75	UCART1	22.39
930	559571.56	4243147.75	UCART1	22.18
931	559591.56	4243147.75	UCART1	22.21
932	559611.56	4243147.75	UCART1	22.02
933	559631.56	4243147.75	UCART1	22.04
934	559651.56	4243147.75	UCART1	22.00
935	559671.56	4243147.75	UCART1	21.78
936	559691.56	4243147.75	UCART1	21.34
937	559711.56	4243147.75	UCART1	20.69
938	559731.56	4243147.75	UCART1	20.57
939	559751.56	4243147.75	UCART1	20.80
940	559771.56	4243147.75	UCART1	20.66
941	559791.56	4243147.75	UCART1	20.56
942	559811.56	4243147.75	UCART1	20.83

943	559831.56	4243147.75	UCART1	20.91
944	559851.56	4243147.75	UCART1	20.94
945	559871.56	4243147.75	UCART1	20.96
946	559891.56	4243147.75	UCART1	21.01
947	559911.56	4243147.75	UCART1	20.72
948	559931.56	4243147.75	UCART1	20.62
949	559951.56	4243147.75	UCART1	20.49
950	559971.56	4243147.75	UCART1	20.47
951	558991.56	4243167.75	UCART1	25.45
952	559011.56	4243167.75	UCART1	24.81
953	559031.56	4243167.75	UCART1	24.73
954	559051.56	4243167.75	UCART1	24.94
955	559071.56	4243167.75	UCART1	24.74
956	559091.56	4243167.75	UCART1	25.01
957	559111.56	4243167.75	UCART1	25.42
958	559131.56	4243167.75	UCART1	25.07
959	559151.56	4243167.75	UCART1	24.32
960	559171.56	4243167.75	UCART1	24.48
961	559191.56	4243167.75	UCART1	24.47
962	559211.56	4243167.75	UCART1	24.46
963	559231.56	4243167.75	UCART1	24.17
964	559251.56	4243167.75	UCART1	23.90
965	559271.56	4243167.75	UCART1	23.49
966	559291.56	4243167.75	UCART1	23.61
967	559311.56	4243167.75	UCART1	23.61
968	559451.56	4243167.75	UCART1	22.93
969	559471.56	4243167.75	UCART1	22.71
970	559491.56	4243167.75	UCART1	22.85
971	559511.56	4243167.75	UCART1	22.35
972	559531.56	4243167.75	UCART1	22.52
973	559551.56	4243167.75	UCART1	22.73
974	559571.56	4243167.75	UCART1	22.30
975	559591.56	4243167.75	UCART1	22.25
976	559611.56	4243167.75	UCART1	22.28
977	559631.56	4243167.75	UCART1	21.74
978	559651.56	4243167.75	UCART1	21.77
979	559671.56	4243167.75	UCART1	21.89
980	559691.56	4243167.75	UCART1	22.01

981	559711.56	4243167.75	UCART1	21.79
982	559731.56	4243167.75	UCART1	21.65
983	559751.56	4243167.75	UCART1	21.56
984	559771.56	4243167.75	UCART1	21.39
985	559791.56	4243167.75	UCART1	21.28
986	559811.56	4243167.75	UCART1	21.24
987	559831.56	4243167.75	UCART1	21.19
988	559851.56	4243167.75	UCART1	21.13
989	559871.56	4243167.75	UCART1	21.06
990	559891.56	4243167.75	UCART1	20.95
991	559911.56	4243167.75	UCART1	20.89
992	559931.56	4243167.75	UCART1	20.86
993	559951.56	4243167.75	UCART1	20.97
994	559971.56	4243167.75	UCART1	20.88
995	558991.56	4243187.75	UCART1	25.74
996	559011.56	4243187.75	UCART1	25.58
997	559031.56	4243187.75	UCART1	25.14
998	559051.56	4243187.75	UCART1	24.66
999	559071.56	4243187.75	UCART1	24.76
1,000	559091.56	4243187.75	UCART1	24.65
1,001	559111.56	4243187.75	UCART1	24.86
1,002	559131.56	4243187.75	UCART1	24.77
1,003	559151.56	4243187.75	UCART1	24.46
1,004	559171.56	4243187.75	UCART1	24.58
1,005	559191.56	4243187.75	UCART1	24.81
1,006	559211.56	4243187.75	UCART1	24.80
1,007	559231.56	4243187.75	UCART1	24.22
1,008	559251.56	4243187.75	UCART1	24.34
1,009	559271.56	4243187.75	UCART1	24.12
1,010	559291.56	4243187.75	UCART1	23.91
1,011	559311.56	4243187.75	UCART1	23.65
1,012	559431.56	4243187.75	UCART1	23.19
1,013	559451.56	4243187.75	UCART1	22.97
1,014	559471.56	4243187.75	UCART1	22.73
1,015	559491.56	4243187.75	UCART1	22.46
1,016	559511.56	4243187.75	UCART1	22.41
1,017	559531.56	4243187.75	UCART1	22.46
1,018	559551.56	4243187.75	UCART1	22.39

1,019	559571.56	4243187.75	UCART1	22.32
1,020	559591.56	4243187.75	UCART1	22.43
1,021	559611.56	4243187.75	UCART1	22.30
1,022	559631.56	4243187.75	UCART1	22.03
1,023	559651.56	4243187.75	UCART1	22.03
1,024	559671.56	4243187.75	UCART1	21.96
1,025	559691.56	4243187.75	UCART1	21.88
1,026	559711.56	4243187.75	UCART1	21.82
1,027	559731.56	4243187.75	UCART1	21.82
1,028	559751.56	4243187.75	UCART1	21.75
1,029	559771.56	4243187.75	UCART1	21.41
1,030	559791.56	4243187.75	UCART1	21.31
1,031	559811.56	4243187.75	UCART1	21.25
1,032	559831.56	4243187.75	UCART1	21.19
1,033	559851.56	4243187.75	UCART1	21.13
1,034	559871.56	4243187.75	UCART1	21.09
1,035	559891.56	4243187.75	UCART1	20.98
1,036	559911.56	4243187.75	UCART1	20.93
1,037	559931.56	4243187.75	UCART1	21.06
1,038	559951.56	4243187.75	UCART1	21.09
1,039	559971.56	4243187.75	UCART1	20.92
1,040	558991.56	4243207.75	UCART1	25.23
1,041	559011.56	4243207.75	UCART1	25.44
1,042	559031.56	4243207.75	UCART1	25.40
1,043	559051.56	4243207.75	UCART1	25.39
1,044	559071.56	4243207.75	UCART1	24.79
1,045	559091.56	4243207.75	UCART1	24.73
1,046	559111.56	4243207.75	UCART1	24.47
1,047	559131.56	4243207.75	UCART1	24.45
1,048	559151.56	4243207.75	UCART1	24.54
1,049	559171.56	4243207.75	UCART1	24.85
1,050	559191.56	4243207.75	UCART1	24.74
1,051	559211.56	4243207.75	UCART1	24.49
1,052	559231.56	4243207.75	UCART1	24.23
1,053	559251.56	4243207.75	UCART1	24.40
1,054	559271.56	4243207.75	UCART1	24.24
1,055	559291.56	4243207.75	UCART1	23.98
1,056	559411.56	4243207.75	UCART1	23.40

1,057	559431.56	4243207.75	UCART1	23.29
1,058	559451.56	4243207.75	UCART1	23.07
1,059	559471.56	4243207.75	UCART1	22.84
1,060	559491.56	4243207.75	UCART1	22.65
1,061	559511.56	4243207.75	UCART1	22.48
1,062	559531.56	4243207.75	UCART1	22.40
1,063	559551.56	4243207.75	UCART1	22.38
1,064	559571.56	4243207.75	UCART1	22.46
1,065	559591.56	4243207.75	UCART1	22.61
1,066	559611.56	4243207.75	UCART1	22.32
1,067	559631.56	4243207.75	UCART1	22.36
1,068	559651.56	4243207.75	UCART1	22.27
1,069	559671.56	4243207.75	UCART1	22.12
1,070	559691.56	4243207.75	UCART1	22.03
1,071	559711.56	4243207.75	UCART1	21.91
1,072	559731.56	4243207.75	UCART1	21.93
1,073	559751.56	4243207.75	UCART1	21.57
1,074	559771.56	4243207.75	UCART1	21.36
1,075	559791.56	4243207.75	UCART1	21.31
1,076	559811.56	4243207.75	UCART1	21.26
1,077	559831.56	4243207.75	UCART1	21.22
1,078	559851.56	4243207.75	UCART1	21.26
1,079	559871.56	4243207.75	UCART1	21.22
1,080	559891.56	4243207.75	UCART1	21.11
1,081	559911.56	4243207.75	UCART1	21.04
1,082	559931.56	4243207.75	UCART1	21.23
1,083	559951.56	4243207.75	UCART1	21.21
1,084	559971.56	4243207.75	UCART1	21.03
1,085	558991.56	4243227.75	UCART1	25.56
1,086	559011.56	4243227.75	UCART1	25.14
1,087	559031.56	4243227.75	UCART1	25.00
1,088	559051.56	4243227.75	UCART1	24.92
1,089	559071.56	4243227.75	UCART1	24.90
1,090	559091.56	4243227.75	UCART1	24.94
1,091	559111.56	4243227.75	UCART1	24.78
1,092	559131.56	4243227.75	UCART1	24.66
1,093	559151.56	4243227.75	UCART1	25.21
1,094	559171.56	4243227.75	UCART1	25.18

1,095	559191.56	4243227.75	UCART1	24.79
1,096	559211.56	4243227.75	UCART1	24.47
1,097	559231.56	4243227.75	UCART1	24.49
1,098	559251.56	4243227.75	UCART1	24.30
1,099	559271.56	4243227.75	UCART1	24.17
1,100	559291.56	4243227.75	UCART1	23.61
1,101	559451.56	4243227.75	UCART1	23.04
1,102	559471.56	4243227.75	UCART1	22.79
1,103	559491.56	4243227.75	UCART1	22.74
1,104	559511.56	4243227.75	UCART1	22.78
1,105	559531.56	4243227.75	UCART1	22.62
1,106	559551.56	4243227.75	UCART1	22.58
1,107	559571.56	4243227.75	UCART1	22.51
1,108	559591.56	4243227.75	UCART1	22.47
1,109	559611.56	4243227.75	UCART1	22.35
1,110	559631.56	4243227.75	UCART1	22.29
1,111	559651.56	4243227.75	UCART1	22.26
1,112	559671.56	4243227.75	UCART1	22.13
1,113	559691.56	4243227.75	UCART1	22.12
1,114	559711.56	4243227.75	UCART1	21.98
1,115	559731.56	4243227.75	UCART1	21.81
1,116	559751.56	4243227.75	UCART1	21.43
1,117	559771.56	4243227.75	UCART1	21.39
1,118	559791.56	4243227.75	UCART1	21.36
1,119	559811.56	4243227.75	UCART1	21.35
1,120	559831.56	4243227.75	UCART1	21.39
1,121	559851.56	4243227.75	UCART1	21.41
1,122	559871.56	4243227.75	UCART1	21.33
1,123	559891.56	4243227.75	UCART1	21.19
1,124	559911.56	4243227.75	UCART1	21.19
1,125	559931.56	4243227.75	UCART1	21.37
1,126	559951.56	4243227.75	UCART1	21.26
1,127	559971.56	4243227.75	UCART1	21.21
1,128	558991.56	4243247.75	UCART1	25.78
1,129	559011.56	4243247.75	UCART1	25.69
1,130	559031.56	4243247.75	UCART1	25.50
1,131	559051.56	4243247.75	UCART1	25.15
1,132	559071.56	4243247.75	UCART1	24.92

1,133	559091.56	4243247.75	UCART1	24.99
1,134	559111.56	4243247.75	UCART1	25.09
1,135	559131.56	4243247.75	UCART1	25.04
1,136	559151.56	4243247.75	UCART1	25.16
1,137	559171.56	4243247.75	UCART1	25.10
1,138	559191.56	4243247.75	UCART1	24.89
1,139	559211.56	4243247.75	UCART1	24.78
1,140	559231.56	4243247.75	UCART1	24.89
1,141	559251.56	4243247.75	UCART1	24.57
1,142	559271.56	4243247.75	UCART1	24.24
1,143	559511.56	4243247.75	UCART1	22.78
1,144	559531.56	4243247.75	UCART1	22.70
1,145	559551.56	4243247.75	UCART1	22.56
1,146	559571.56	4243247.75	UCART1	22.58
1,147	559591.56	4243247.75	UCART1	22.60
1,148	559611.56	4243247.75	UCART1	22.39
1,149	559631.56	4243247.75	UCART1	22.47
1,150	559651.56	4243247.75	UCART1	22.30
1,151	559671.56	4243247.75	UCART1	22.13
1,152	559691.56	4243247.75	UCART1	22.06
1,153	559711.56	4243247.75	UCART1	22.01
1,154	559731.56	4243247.75	UCART1	21.67
1,155	559751.56	4243247.75	UCART1	21.49
1,156	559771.56	4243247.75	UCART1	21.49
1,157	559791.56	4243247.75	UCART1	21.44
1,158	559811.56	4243247.75	UCART1	21.46
1,159	559831.56	4243247.75	UCART1	21.67
1,160	559851.56	4243247.75	UCART1	21.79
1,161	559871.56	4243247.75	UCART1	21.47
1,162	559891.56	4243247.75	UCART1	21.27
1,163	559911.56	4243247.75	UCART1	21.39
1,164	559931.56	4243247.75	UCART1	21.57
1,165	559951.56	4243247.75	UCART1	21.36
1,166	559971.56	4243247.75	UCART1	21.50
1,167	558991.56	4243267.75	UCART1	25.77
1,168	559011.56	4243267.75	UCART1	25.61
1,169	559031.56	4243267.75	UCART1	25.55
1,170	559051.56	4243267.75	UCART1	25.63

1,171	559071.56	4243267.75	UCART1	25.49
1,172	559091.56	4243267.75	UCART1	25.21
1,173	559111.56	4243267.75	UCART1	25.01
1,174	559131.56	4243267.75	UCART1	24.89
1,175	559151.56	4243267.75	UCART1	24.95
1,176	559171.56	4243267.75	UCART1	25.12
1,177	559191.56	4243267.75	UCART1	25.15
1,178	559211.56	4243267.75	UCART1	25.14
1,179	559231.56	4243267.75	UCART1	25.10
1,180	559251.56	4243267.75	UCART1	24.57
1,181	559571.56	4243267.75	UCART1	22.72
1,182	559591.56	4243267.75	UCART1	22.69
1,183	559611.56	4243267.75	UCART1	22.49
1,184	559631.56	4243267.75	UCART1	22.65
1,185	559651.56	4243267.75	UCART1	22.64
1,186	559671.56	4243267.75	UCART1	22.46
1,187	559691.56	4243267.75	UCART1	22.34
1,188	559711.56	4243267.75	UCART1	22.33
1,189	559731.56	4243267.75	UCART1	22.14
1,190	559751.56	4243267.75	UCART1	21.98
1,191	559771.56	4243267.75	UCART1	21.79
1,192	559791.56	4243267.75	UCART1	21.64
1,193	559811.56	4243267.75	UCART1	21.63
1,194	559831.56	4243267.75	UCART1	21.87
1,195	559851.56	4243267.75	UCART1	22.12
1,196	559871.56	4243267.75	UCART1	21.90
1,197	559891.56	4243267.75	UCART1	21.55
1,198	559911.56	4243267.75	UCART1	21.67
1,199	559931.56	4243267.75	UCART1	21.62
1,200	559951.56	4243267.75	UCART1	21.52
1,201	559971.56	4243267.75	UCART1	21.77
1,202	558991.56	4243287.75	UCART1	25.59
1,203	559011.56	4243287.75	UCART1	25.41
1,204	559031.56	4243287.75	UCART1	25.54
1,205	559051.56	4243287.75	UCART1	25.54
1,206	559071.56	4243287.75	UCART1	25.49
1,207	559091.56	4243287.75	UCART1	25.59
1,208	559111.56	4243287.75	UCART1	25.42

1,209	559131.56	4243287.75	UCART1	25.25
1,210	559151.56	4243287.75	UCART1	25.24
1,211	559171.56	4243287.75	UCART1	24.87
1,212	559191.56	4243287.75	UCART1	24.86
1,213	559211.56	4243287.75	UCART1	25.01
1,214	559231.56	4243287.75	UCART1	25.03
1,215	559251.56	4243287.75	UCART1	24.25
1,216	559351.56	4243287.75	UCART1	23.74
1,217	559371.56	4243287.75	UCART1	23.50
1,218	559391.56	4243287.75	UCART1	23.32
1,219	559551.56	4243287.75	UCART1	22.81
1,220	559571.56	4243287.75	UCART1	22.81
1,221	559591.56	4243287.75	UCART1	22.66
1,222	559611.56	4243287.75	UCART1	22.67
1,223	559631.56	4243287.75	UCART1	22.92
1,224	559651.56	4243287.75	UCART1	22.86
1,225	559671.56	4243287.75	UCART1	22.63
1,226	559691.56	4243287.75	UCART1	22.49
1,227	559711.56	4243287.75	UCART1	22.86
1,228	559731.56	4243287.75	UCART1	22.61
1,229	559751.56	4243287.75	UCART1	22.26
1,230	559771.56	4243287.75	UCART1	22.34
1,231	559791.56	4243287.75	UCART1	22.05
1,232	559811.56	4243287.75	UCART1	21.92
1,233	559831.56	4243287.75	UCART1	21.91
1,234	559851.56	4243287.75	UCART1	21.96
1,235	559871.56	4243287.75	UCART1	21.70
1,236	559891.56	4243287.75	UCART1	21.63
1,237	559911.56	4243287.75	UCART1	21.85
1,238	559931.56	4243287.75	UCART1	21.65
1,239	559951.56	4243287.75	UCART1	21.83
1,240	559971.56	4243287.75	UCART1	21.82
1,241	558991.56	4243307.75	UCART1	25.29
1,242	559011.56	4243307.75	UCART1	25.29
1,243	559031.56	4243307.75	UCART1	25.57
1,244	559051.56	4243307.75	UCART1	25.61
1,245	559071.56	4243307.75	UCART1	25.40
1,246	559091.56	4243307.75	UCART1	25.56

1,247	559111.56	4243307.75	UCART1	25.62
1,248	559131.56	4243307.75	UCART1	25.58
1,249	559151.56	4243307.75	UCART1	25.29
1,250	559171.56	4243307.75	UCART1	25.15
1,251	559191.56	4243307.75	UCART1	24.97
1,252	559211.56	4243307.75	UCART1	24.83
1,253	559231.56	4243307.75	UCART1	24.90
1,254	559351.56	4243307.75	UCART1	23.62
1,255	559371.56	4243307.75	UCART1	23.53
1,256	559391.56	4243307.75	UCART1	23.34
1,257	559411.56	4243307.75	UCART1	23.25
1,258	559431.56	4243307.75	UCART1	23.19
1,259	559451.56	4243307.75	UCART1	23.09
1,260	559551.56	4243307.75	UCART1	22.88
1,261	559571.56	4243307.75	UCART1	22.71
1,262	559591.56	4243307.75	UCART1	22.60
1,263	559611.56	4243307.75	UCART1	22.80
1,264	559631.56	4243307.75	UCART1	22.88
1,265	559651.56	4243307.75	UCART1	22.88
1,266	559671.56	4243307.75	UCART1	22.93
1,267	559691.56	4243307.75	UCART1	22.87
1,268	559711.56	4243307.75	UCART1	22.87
1,269	559731.56	4243307.75	UCART1	22.32
1,270	559751.56	4243307.75	UCART1	22.51
1,271	559771.56	4243307.75	UCART1	22.52
1,272	559791.56	4243307.75	UCART1	22.30
1,273	559811.56	4243307.75	UCART1	22.22
1,274	559831.56	4243307.75	UCART1	22.01
1,275	559851.56	4243307.75	UCART1	21.83
1,276	559871.56	4243307.75	UCART1	21.76
1,277	559891.56	4243307.75	UCART1	21.73
1,278	559911.56	4243307.75	UCART1	21.74
1,279	559931.56	4243307.75	UCART1	21.71
1,280	559951.56	4243307.75	UCART1	22.00
1,281	559971.56	4243307.75	UCART1	21.51
1,282	558991.56	4243327.75	UCART1	25.51
1,283	559011.56	4243327.75	UCART1	25.31
1,284	559031.56	4243327.75	UCART1	25.61

1,285	559051.56	4243327.75	UCART1	25.57
1,286	559071.56	4243327.75	UCART1	25.60
1,287	559091.56	4243327.75	UCART1	25.61
1,288	559111.56	4243327.75	UCART1	25.53
1,289	559131.56	4243327.75	UCART1	25.23
1,290	559151.56	4243327.75	UCART1	25.02
1,291	559171.56	4243327.75	UCART1	25.10
1,292	559191.56	4243327.75	UCART1	25.03
1,293	559211.56	4243327.75	UCART1	24.97
1,294	559351.56	4243327.75	UCART1	23.59
1,295	559371.56	4243327.75	UCART1	23.49
1,296	559391.56	4243327.75	UCART1	23.34
1,297	559411.56	4243327.75	UCART1	23.27
1,298	559431.56	4243327.75	UCART1	23.32
1,299	559451.56	4243327.75	UCART1	23.30
1,300	559471.56	4243327.75	UCART1	23.15
1,301	559491.56	4243327.75	UCART1	23.07
1,302	559531.56	4243327.75	UCART1	22.83
1,303	559551.56	4243327.75	UCART1	22.80
1,304	559571.56	4243327.75	UCART1	22.69
1,305	559591.56	4243327.75	UCART1	22.62
1,306	559611.56	4243327.75	UCART1	22.76
1,307	559631.56	4243327.75	UCART1	22.68
1,308	559651.56	4243327.75	UCART1	22.74
1,309	559671.56	4243327.75	UCART1	22.90
1,310	559691.56	4243327.75	UCART1	23.01
1,311	559711.56	4243327.75	UCART1	22.55
1,312	559731.56	4243327.75	UCART1	22.51
1,313	559751.56	4243327.75	UCART1	22.81
1,314	559771.56	4243327.75	UCART1	22.52
1,315	559791.56	4243327.75	UCART1	22.34
1,316	559811.56	4243327.75	UCART1	22.35
1,317	559831.56	4243327.75	UCART1	22.23
1,318	559851.56	4243327.75	UCART1	22.07
1,319	559871.56	4243327.75	UCART1	21.87
1,320	559891.56	4243327.75	UCART1	21.87
1,321	559911.56	4243327.75	UCART1	21.68
1,322	559931.56	4243327.75	UCART1	21.62

1,323	559951.56	4243327.75	UCART1	21.64
1,324	559971.56	4243327.75	UCART1	21.43
1,325	558991.56	4243347.75	UCART1	25.64
1,326	559011.56	4243347.75	UCART1	25.54
1,327	559031.56	4243347.75	UCART1	25.40
1,328	559051.56	4243347.75	UCART1	25.55
1,329	559071.56	4243347.75	UCART1	25.56
1,330	559091.56	4243347.75	UCART1	25.81
1,331	559111.56	4243347.75	UCART1	25.26
1,332	559131.56	4243347.75	UCART1	25.12
1,333	559151.56	4243347.75	UCART1	25.18
1,334	559171.56	4243347.75	UCART1	25.05
1,335	559191.56	4243347.75	UCART1	24.95
1,336	559211.56	4243347.75	UCART1	24.71
1,337	559351.56	4243347.75	UCART1	23.71
1,338	559371.56	4243347.75	UCART1	23.59
1,339	559391.56	4243347.75	UCART1	23.60
1,340	559411.56	4243347.75	UCART1	23.41
1,341	559431.56	4243347.75	UCART1	23.27
1,342	559451.56	4243347.75	UCART1	23.21
1,343	559471.56	4243347.75	UCART1	23.22
1,344	559491.56	4243347.75	UCART1	23.22
1,345	559511.56	4243347.75	UCART1	23.13
1,346	559531.56	4243347.75	UCART1	22.99
1,347	559551.56	4243347.75	UCART1	22.82
1,348	559571.56	4243347.75	UCART1	22.68
1,349	559591.56	4243347.75	UCART1	22.55
1,350	559611.56	4243347.75	UCART1	22.53
1,351	559631.56	4243347.75	UCART1	22.54
1,352	559651.56	4243347.75	UCART1	22.69
1,353	559671.56	4243347.75	UCART1	22.99
1,354	559691.56	4243347.75	UCART1	22.75
1,355	559711.56	4243347.75	UCART1	22.39
1,356	559731.56	4243347.75	UCART1	22.97
1,357	559751.56	4243347.75	UCART1	22.89
1,358	559771.56	4243347.75	UCART1	22.54
1,359	559791.56	4243347.75	UCART1	22.42
1,360	559811.56	4243347.75	UCART1	22.30

1,361	559831.56	4243347.75	UCART1	22.08
1,362	559851.56	4243347.75	UCART1	22.06
1,363	559871.56	4243347.75	UCART1	21.97
1,364	559891.56	4243347.75	UCART1	21.99
1,365	559911.56	4243347.75	UCART1	21.84
1,366	559931.56	4243347.75	UCART1	21.78
1,367	559951.56	4243347.75	UCART1	21.75
1,368	559971.56	4243347.75	UCART1	21.72
1,369	558991.56	4243367.75	UCART1	25.66
1,370	559011.56	4243367.75	UCART1	25.60
1,371	559031.56	4243367.75	UCART1	25.45
1,372	559051.56	4243367.75	UCART1	25.27
1,373	559071.56	4243367.75	UCART1	25.44
1,374	559091.56	4243367.75	UCART1	25.42
1,375	559111.56	4243367.75	UCART1	25.72
1,376	559131.56	4243367.75	UCART1	25.31
1,377	559151.56	4243367.75	UCART1	24.97
1,378	559171.56	4243367.75	UCART1	25.23
1,379	559191.56	4243367.75	UCART1	24.94
1,380	559331.56	4243367.75	UCART1	24.07
1,381	559351.56	4243367.75	UCART1	23.76
1,382	559371.56	4243367.75	UCART1	23.64
1,383	559391.56	4243367.75	UCART1	23.60
1,384	559411.56	4243367.75	UCART1	23.52
1,385	559431.56	4243367.75	UCART1	23.41
1,386	559451.56	4243367.75	UCART1	23.31
1,387	559471.56	4243367.75	UCART1	23.22
1,388	559491.56	4243367.75	UCART1	23.15
1,389	559511.56	4243367.75	UCART1	23.11
1,390	559531.56	4243367.75	UCART1	23.02
1,391	559551.56	4243367.75	UCART1	23.08
1,392	559571.56	4243367.75	UCART1	23.08
1,393	559591.56	4243367.75	UCART1	22.90
1,394	559611.56	4243367.75	UCART1	22.50
1,395	559631.56	4243367.75	UCART1	22.56
1,396	559651.56	4243367.75	UCART1	22.89
1,397	559671.56	4243367.75	UCART1	22.92
1,398	559691.56	4243367.75	UCART1	22.28

1,399	559711.56	4243367.75	UCART1	22.68
1,400	559731.56	4243367.75	UCART1	23.18
1,401	559751.56	4243367.75	UCART1	22.96
1,402	559771.56	4243367.75	UCART1	22.71
1,403	559791.56	4243367.75	UCART1	22.56
1,404	559811.56	4243367.75	UCART1	22.33
1,405	559831.56	4243367.75	UCART1	22.16
1,406	559851.56	4243367.75	UCART1	22.12
1,407	559871.56	4243367.75	UCART1	21.94
1,408	559891.56	4243367.75	UCART1	21.97
1,409	559911.56	4243367.75	UCART1	22.09
1,410	559931.56	4243367.75	UCART1	21.99
1,411	559951.56	4243367.75	UCART1	22.22
1,412	559971.56	4243367.75	UCART1	22.26
1,413	558991.56	4243387.75	UCART1	25.76
1,414	559011.56	4243387.75	UCART1	25.89
1,415	559031.56	4243387.75	UCART1	25.58
1,416	559051.56	4243387.75	UCART1	25.31
1,417	559071.56	4243387.75	UCART1	25.15
1,418	559091.56	4243387.75	UCART1	25.15
1,419	559111.56	4243387.75	UCART1	25.28
1,420	559131.56	4243387.75	UCART1	25.26
1,421	559151.56	4243387.75	UCART1	25.19
1,422	559171.56	4243387.75	UCART1	25.08
1,423	559291.56	4243387.75	UCART1	24.37
1,424	559311.56	4243387.75	UCART1	24.45
1,425	559331.56	4243387.75	UCART1	24.47
1,426	559351.56	4243387.75	UCART1	24.41
1,427	559371.56	4243387.75	UCART1	24.04
1,428	559391.56	4243387.75	UCART1	23.72
1,429	559411.56	4243387.75	UCART1	23.55
1,430	559431.56	4243387.75	UCART1	23.46
1,431	559451.56	4243387.75	UCART1	23.42
1,432	559471.56	4243387.75	UCART1	23.34
1,433	559491.56	4243387.75	UCART1	23.26
1,434	559511.56	4243387.75	UCART1	23.22
1,435	559531.56	4243387.75	UCART1	23.13
1,436	559551.56	4243387.75	UCART1	22.95

1,437	559571.56	4243387.75	UCART1	22.97
1,438	559591.56	4243387.75	UCART1	22.99
1,439	559611.56	4243387.75	UCART1	22.60
1,440	559631.56	4243387.75	UCART1	22.81
1,441	559651.56	4243387.75	UCART1	23.06
1,442	559671.56	4243387.75	UCART1	22.58
1,443	559691.56	4243387.75	UCART1	22.21
1,444	559711.56	4243387.75	UCART1	22.71
1,445	559731.56	4243387.75	UCART1	22.90
1,446	559751.56	4243387.75	UCART1	22.94
1,447	559771.56	4243387.75	UCART1	23.07
1,448	559791.56	4243387.75	UCART1	23.00
1,449	559811.56	4243387.75	UCART1	22.57
1,450	559831.56	4243387.75	UCART1	22.37
1,451	559851.56	4243387.75	UCART1	22.33
1,452	559871.56	4243387.75	UCART1	22.09
1,453	559891.56	4243387.75	UCART1	22.04
1,454	559911.56	4243387.75	UCART1	22.04
1,455	559931.56	4243387.75	UCART1	22.07
1,456	559951.56	4243387.75	UCART1	22.58
1,457	559971.56	4243387.75	UCART1	21.83
1,458	558991.56	4243407.75	UCART1	25.88
1,459	559011.56	4243407.75	UCART1	25.72
1,460	559031.56	4243407.75	UCART1	25.76
1,461	559051.56	4243407.75	UCART1	25.44
1,462	559071.56	4243407.75	UCART1	25.14
1,463	559091.56	4243407.75	UCART1	25.03
1,464	559111.56	4243407.75	UCART1	25.23
1,465	559131.56	4243407.75	UCART1	25.26
1,466	559151.56	4243407.75	UCART1	25.37
1,467	559171.56	4243407.75	UCART1	25.01
1,468	559271.56	4243407.75	UCART1	24.42
1,469	559291.56	4243407.75	UCART1	24.10
1,470	559311.56	4243407.75	UCART1	24.16
1,471	559331.56	4243407.75	UCART1	24.25
1,472	559351.56	4243407.75	UCART1	24.28
1,473	559371.56	4243407.75	UCART1	24.29
1,474	559391.56	4243407.75	UCART1	24.24

1,475	559411.56	4243407.75	UCART1	24.00
1,476	559431.56	4243407.75	UCART1	23.69
1,477	559451.56	4243407.75	UCART1	23.49
1,478	559471.56	4243407.75	UCART1	23.38
1,479	559491.56	4243407.75	UCART1	23.26
1,480	559511.56	4243407.75	UCART1	23.31
1,481	559531.56	4243407.75	UCART1	23.37
1,482	559551.56	4243407.75	UCART1	23.27
1,483	559571.56	4243407.75	UCART1	23.06
1,484	559591.56	4243407.75	UCART1	22.68
1,485	559611.56	4243407.75	UCART1	22.89
1,486	559631.56	4243407.75	UCART1	23.14
1,487	559651.56	4243407.75	UCART1	23.07
1,488	559671.56	4243407.75	UCART1	22.38
1,489	559691.56	4243407.75	UCART1	22.54
1,490	559711.56	4243407.75	UCART1	22.27
1,491	559731.56	4243407.75	UCART1	22.29
1,492	559751.56	4243407.75	UCART1	22.60
1,493	559771.56	4243407.75	UCART1	22.86
1,494	559791.56	4243407.75	UCART1	22.80
1,495	559811.56	4243407.75	UCART1	22.38
1,496	559831.56	4243407.75	UCART1	22.17
1,497	559851.56	4243407.75	UCART1	22.13
1,498	559871.56	4243407.75	UCART1	21.94
1,499	559891.56	4243407.75	UCART1	22.00
1,500	559911.56	4243407.75	UCART1	22.16
1,501	559931.56	4243407.75	UCART1	22.40
1,502	559951.56	4243407.75	UCART1	22.71
1,503	559971.56	4243407.75	UCART1	22.42
1,504	558991.56	4243427.75	UCART1	25.91
1,505	559011.56	4243427.75	UCART1	25.68
1,506	559031.56	4243427.75	UCART1	25.60
1,507	559051.56	4243427.75	UCART1	25.61
1,508	559071.56	4243427.75	UCART1	25.28
1,509	559091.56	4243427.75	UCART1	25.22
1,510	559111.56	4243427.75	UCART1	25.30
1,511	559131.56	4243427.75	UCART1	25.28
1,512	559151.56	4243427.75	UCART1	25.17

1,513	559251.56	4243427.75	UCART1	24.67
1,514	559271.56	4243427.75	UCART1	24.66
1,515	559291.56	4243427.75	UCART1	24.20
1,516	559311.56	4243427.75	UCART1	23.69
1,517	559331.56	4243427.75	UCART1	23.67
1,518	559351.56	4243427.75	UCART1	23.61
1,519	559371.56	4243427.75	UCART1	23.61
1,520	559391.56	4243427.75	UCART1	23.84
1,521	559411.56	4243427.75	UCART1	23.99
1,522	559431.56	4243427.75	UCART1	24.02
1,523	559451.56	4243427.75	UCART1	24.00
1,524	559471.56	4243427.75	UCART1	23.69
1,525	559491.56	4243427.75	UCART1	23.43
1,526	559511.56	4243427.75	UCART1	23.27
1,527	559531.56	4243427.75	UCART1	23.09
1,528	559551.56	4243427.75	UCART1	23.05
1,529	559571.56	4243427.75	UCART1	23.03
1,530	559591.56	4243427.75	UCART1	22.83
1,531	559611.56	4243427.75	UCART1	23.19
1,532	559631.56	4243427.75	UCART1	23.27
1,533	559651.56	4243427.75	UCART1	22.55
1,534	559671.56	4243427.75	UCART1	22.82
1,535	559691.56	4243427.75	UCART1	22.88
1,536	559711.56	4243427.75	UCART1	22.80
1,537	559731.56	4243427.75	UCART1	22.77
1,538	559751.56	4243427.75	UCART1	22.52
1,539	559771.56	4243427.75	UCART1	22.40
1,540	559791.56	4243427.75	UCART1	22.47
1,541	559811.56	4243427.75	UCART1	22.32
1,542	559831.56	4243427.75	UCART1	22.45
1,543	559851.56	4243427.75	UCART1	22.44
1,544	559871.56	4243427.75	UCART1	21.94
1,545	559891.56	4243427.75	UCART1	22.11
1,546	559911.56	4243427.75	UCART1	22.09
1,547	559931.56	4243427.75	UCART1	21.86
1,548	559951.56	4243427.75	UCART1	22.03
1,549	559971.56	4243427.75	UCART1	22.25
1,550	558991.56	4243447.75	UCART1	26.09

1,551	559011.56	4243447.75	UCART1	25.83
1,552	559031.56	4243447.75	UCART1	25.60
1,553	559051.56	4243447.75	UCART1	25.43
1,554	559071.56	4243447.75	UCART1	25.35
1,555	559091.56	4243447.75	UCART1	25.41
1,556	559111.56	4243447.75	UCART1	25.38
1,557	559131.56	4243447.75	UCART1	25.28
1,558	559151.56	4243447.75	UCART1	24.88
1,559	559251.56	4243447.75	UCART1	24.79
1,560	559271.56	4243447.75	UCART1	24.93
1,561	559291.56	4243447.75	UCART1	24.27
1,562	559311.56	4243447.75	UCART1	24.06
1,563	559331.56	4243447.75	UCART1	24.31
1,564	559351.56	4243447.75	UCART1	24.23
1,565	559371.56	4243447.75	UCART1	23.89
1,566	559391.56	4243447.75	UCART1	23.45
1,567	559411.56	4243447.75	UCART1	23.40
1,568	559431.56	4243447.75	UCART1	23.56
1,569	559451.56	4243447.75	UCART1	23.87
1,570	559471.56	4243447.75	UCART1	24.09
1,571	559491.56	4243447.75	UCART1	23.93
1,572	559511.56	4243447.75	UCART1	23.77
1,573	559531.56	4243447.75	UCART1	23.37
1,574	559551.56	4243447.75	UCART1	23.11
1,575	559571.56	4243447.75	UCART1	22.91
1,576	559591.56	4243447.75	UCART1	23.16
1,577	559611.56	4243447.75	UCART1	23.23
1,578	559631.56	4243447.75	UCART1	22.81
1,579	559651.56	4243447.75	UCART1	22.60
1,580	559671.56	4243447.75	UCART1	23.43
1,581	559691.56	4243447.75	UCART1	23.43
1,582	559711.56	4243447.75	UCART1	23.39
1,583	559731.56	4243447.75	UCART1	23.12
1,584	559751.56	4243447.75	UCART1	23.09
1,585	559771.56	4243447.75	UCART1	22.78
1,586	559791.56	4243447.75	UCART1	22.62
1,587	559811.56	4243447.75	UCART1	22.54
1,588	559831.56	4243447.75	UCART1	22.64

1,589	559851.56	4243447.75	UCART1	22.11
1,590	559871.56	4243447.75	UCART1	22.12
1,591	559891.56	4243447.75	UCART1	22.13
1,592	559911.56	4243447.75	UCART1	22.29
1,593	559931.56	4243447.75	UCART1	22.26
1,594	559951.56	4243447.75	UCART1	22.30
1,595	559971.56	4243447.75	UCART1	22.31
1,596	558991.56	4243467.75	UCART1	26.12
1,597	559011.56	4243467.75	UCART1	25.97
1,598	559031.56	4243467.75	UCART1	25.80
1,599	559051.56	4243467.75	UCART1	25.48
1,600	559071.56	4243467.75	UCART1	25.43
1,601	559091.56	4243467.75	UCART1	25.50
1,602	559111.56	4243467.75	UCART1	25.42
1,603	559131.56	4243467.75	UCART1	25.26
1,604	559231.56	4243467.75	UCART1	24.78
1,605	559251.56	4243467.75	UCART1	25.05
1,606	559271.56	4243467.75	UCART1	24.70
1,607	559291.56	4243467.75	UCART1	24.22
1,608	559311.56	4243467.75	UCART1	24.81
1,609	559331.56	4243467.75	UCART1	24.79
1,610	559351.56	4243467.75	UCART1	24.46
1,611	559371.56	4243467.75	UCART1	24.21
1,612	559391.56	4243467.75	UCART1	23.57
1,613	559411.56	4243467.75	UCART1	23.97
1,614	559431.56	4243467.75	UCART1	23.58
1,615	559451.56	4243467.75	UCART1	23.22
1,616	559471.56	4243467.75	UCART1	23.37
1,617	559491.56	4243467.75	UCART1	23.67
1,618	559511.56	4243467.75	UCART1	24.04
1,619	559531.56	4243467.75	UCART1	24.14
1,620	559551.56	4243467.75	UCART1	23.98
1,621	559571.56	4243467.75	UCART1	23.37
1,622	559591.56	4243467.75	UCART1	23.28
1,623	559611.56	4243467.75	UCART1	23.30
1,624	559631.56	4243467.75	UCART1	22.93
1,625	559651.56	4243467.75	UCART1	22.79
1,626	559671.56	4243467.75	UCART1	22.80

1,627	559691.56	4243467.75	UCART1	23.04
1,628	559711.56	4243467.75	UCART1	23.43
1,629	559731.56	4243467.75	UCART1	23.60
1,630	559751.56	4243467.75	UCART1	23.59
1,631	559771.56	4243467.75	UCART1	23.22
1,632	559791.56	4243467.75	UCART1	22.76
1,633	559811.56	4243467.75	UCART1	22.61
1,634	559831.56	4243467.75	UCART1	22.51
1,635	559851.56	4243467.75	UCART1	22.17
1,636	559871.56	4243467.75	UCART1	22.55
1,637	559891.56	4243467.75	UCART1	22.34
1,638	559911.56	4243467.75	UCART1	22.48
1,639	559931.56	4243467.75	UCART1	22.49
1,640	559951.56	4243467.75	UCART1	22.39
1,641	559971.56	4243467.75	UCART1	22.31
1,642	558991.56	4243487.75	UCART1	25.88
1,643	559011.56	4243487.75	UCART1	25.89
1,644	559031.56	4243487.75	UCART1	25.82
1,645	559051.56	4243487.75	UCART1	25.46
1,646	559071.56	4243487.75	UCART1	25.77
1,647	559091.56	4243487.75	UCART1	25.73
1,648	559111.56	4243487.75	UCART1	25.40
1,649	559211.56	4243487.75	UCART1	25.06
1,650	559231.56	4243487.75	UCART1	25.01
1,651	559251.56	4243487.75	UCART1	25.11
1,652	559271.56	4243487.75	UCART1	24.38
1,653	559291.56	4243487.75	UCART1	24.53
1,654	559311.56	4243487.75	UCART1	25.24
1,655	559331.56	4243487.75	UCART1	24.96
1,656	559351.56	4243487.75	UCART1	24.56
1,657	559371.56	4243487.75	UCART1	24.15
1,658	559391.56	4243487.75	UCART1	23.64
1,659	559411.56	4243487.75	UCART1	24.47
1,660	559431.56	4243487.75	UCART1	24.08
1,661	559451.56	4243487.75	UCART1	23.88
1,662	559471.56	4243487.75	UCART1	23.61
1,663	559491.56	4243487.75	UCART1	23.25
1,664	559511.56	4243487.75	UCART1	23.27

1,665	559531.56	4243487.75	UCART1	23.60
1,666	559551.56	4243487.75	UCART1	24.10
1,667	559571.56	4243487.75	UCART1	24.05
1,668	559591.56	4243487.75	UCART1	24.01
1,669	559611.56	4243487.75	UCART1	23.73
1,670	559631.56	4243487.75	UCART1	23.40
1,671	559651.56	4243487.75	UCART1	23.07
1,672	559671.56	4243487.75	UCART1	22.82
1,673	559691.56	4243487.75	UCART1	23.06
1,674	559711.56	4243487.75	UCART1	22.93
1,675	559731.56	4243487.75	UCART1	23.07
1,676	559751.56	4243487.75	UCART1	23.32
1,677	559771.56	4243487.75	UCART1	23.53
1,678	559791.56	4243487.75	UCART1	23.32
1,679	559811.56	4243487.75	UCART1	22.86
1,680	559831.56	4243487.75	UCART1	22.32
1,681	559851.56	4243487.75	UCART1	22.48
1,682	559871.56	4243487.75	UCART1	22.50
1,683	559891.56	4243487.75	UCART1	22.38
1,684	559911.56	4243487.75	UCART1	22.49
1,685	559931.56	4243487.75	UCART1	22.44
1,686	559951.56	4243487.75	UCART1	22.45
1,687	559971.56	4243487.75	UCART1	22.45
1,688	558991.56	4243507.75	UCART1	26.01
1,689	559011.56	4243507.75	UCART1	25.80
1,690	559031.56	4243507.75	UCART1	25.63
1,691	559051.56	4243507.75	UCART1	25.67
1,692	559071.56	4243507.75	UCART1	25.86
1,693	559091.56	4243507.75	UCART1	25.61
1,694	559111.56	4243507.75	UCART1	25.19
1,695	559211.56	4243507.75	UCART1	25.06
1,696	559231.56	4243507.75	UCART1	25.31
1,697	559251.56	4243507.75	UCART1	25.30
1,698	559271.56	4243507.75	UCART1	25.19
1,699	559291.56	4243507.75	UCART1	25.12
1,700	559311.56	4243507.75	UCART1	25.22
1,701	559331.56	4243507.75	UCART1	24.99
1,702	559351.56	4243507.75	UCART1	24.73

1,703	559371.56	4243507.75	UCART1	24.29
1,704	559391.56	4243507.75	UCART1	23.74
1,705	559411.56	4243507.75	UCART1	24.40
1,706	559431.56	4243507.75	UCART1	24.62
1,707	559451.56	4243507.75	UCART1	24.26
1,708	559471.56	4243507.75	UCART1	24.04
1,709	559491.56	4243507.75	UCART1	23.97
1,710	559511.56	4243507.75	UCART1	23.84
1,711	559531.56	4243507.75	UCART1	23.38
1,712	559551.56	4243507.75	UCART1	23.15
1,713	559571.56	4243507.75	UCART1	23.33
1,714	559591.56	4243507.75	UCART1	23.78
1,715	559611.56	4243507.75	UCART1	23.98
1,716	559631.56	4243507.75	UCART1	23.88
1,717	559651.56	4243507.75	UCART1	22.63
1,718	559671.56	4243507.75	UCART1	23.35
1,719	559691.56	4243507.75	UCART1	23.75
1,720	559711.56	4243507.75	UCART1	23.65
1,721	559731.56	4243507.75	UCART1	23.34
1,722	559751.56	4243507.75	UCART1	23.01
1,723	559771.56	4243507.75	UCART1	22.86
1,724	559791.56	4243507.75	UCART1	23.00
1,725	559811.56	4243507.75	UCART1	22.71
1,726	559831.56	4243507.75	UCART1	22.98
1,727	559851.56	4243507.75	UCART1	22.97
1,728	559871.56	4243507.75	UCART1	22.54
1,729	559891.56	4243507.75	UCART1	22.45
1,730	559911.56	4243507.75	UCART1	22.54
1,731	559931.56	4243507.75	UCART1	22.62
1,732	559951.56	4243507.75	UCART1	22.48
1,733	559971.56	4243507.75	UCART1	22.49
1,734	558991.56	4243527.75	UCART1	26.15
1,735	559011.56	4243527.75	UCART1	25.80
1,736	559031.56	4243527.75	UCART1	25.80
1,737	559051.56	4243527.75	UCART1	25.80
1,738	559071.56	4243527.75	UCART1	25.74
1,739	559091.56	4243527.75	UCART1	25.52
1,740	559191.56	4243527.75	UCART1	25.01

1,741	559211.56	4243527.75	UCART1	25.29
1,742	559231.56	4243527.75	UCART1	25.42
1,743	559251.56	4243527.75	UCART1	25.38
1,744	559271.56	4243527.75	UCART1	25.33
1,745	559291.56	4243527.75	UCART1	25.40
1,746	559311.56	4243527.75	UCART1	25.10
1,747	559331.56	4243527.75	UCART1	24.97
1,748	559351.56	4243527.75	UCART1	24.85
1,749	559371.56	4243527.75	UCART1	24.53
1,750	559391.56	4243527.75	UCART1	24.06
1,751	559411.56	4243527.75	UCART1	23.92
1,752	559431.56	4243527.75	UCART1	24.51
1,753	559451.56	4243527.75	UCART1	24.75
1,754	559471.56	4243527.75	UCART1	24.70
1,755	559491.56	4243527.75	UCART1	24.55
1,756	559511.56	4243527.75	UCART1	24.17
1,757	559531.56	4243527.75	UCART1	24.09
1,758	559551.56	4243527.75	UCART1	23.99
1,759	559571.56	4243527.75	UCART1	23.44
1,760	559591.56	4243527.75	UCART1	23.02
1,761	559611.56	4243527.75	UCART1	23.06
1,762	559631.56	4243527.75	UCART1	23.02
1,763	559651.56	4243527.75	UCART1	23.04
1,764	559671.56	4243527.75	UCART1	23.53
1,765	559691.56	4243527.75	UCART1	23.79
1,766	559711.56	4243527.75	UCART1	23.75
1,767	559731.56	4243527.75	UCART1	23.56
1,768	559751.56	4243527.75	UCART1	23.52
1,769	559771.56	4243527.75	UCART1	23.13
1,770	559791.56	4243527.75	UCART1	22.77
1,771	559811.56	4243527.75	UCART1	22.55
1,772	559831.56	4243527.75	UCART1	22.75
1,773	559851.56	4243527.75	UCART1	22.82
1,774	559871.56	4243527.75	UCART1	22.51
1,775	559891.56	4243527.75	UCART1	22.42
1,776	559911.56	4243527.75	UCART1	22.48
1,777	559931.56	4243527.75	UCART1	22.57
1,778	559951.56	4243527.75	UCART1	22.55

1,779	559971.56	4243527.75	UCART1	22.49
1,780	558991.56	4243547.75	UCART1	26.02
1,781	559011.56	4243547.75	UCART1	25.88
1,782	559031.56	4243547.75	UCART1	25.99
1,783	559051.56	4243547.75	UCART1	25.77
1,784	559071.56	4243547.75	UCART1	25.73
1,785	559191.56	4243547.75	UCART1	24.92
1,786	559211.56	4243547.75	UCART1	24.87
1,787	559231.56	4243547.75	UCART1	25.00
1,788	559251.56	4243547.75	UCART1	25.24
1,789	559271.56	4243547.75	UCART1	25.22
1,790	559291.56	4243547.75	UCART1	25.19
1,791	559311.56	4243547.75	UCART1	25.18
1,792	559331.56	4243547.75	UCART1	25.01
1,793	559351.56	4243547.75	UCART1	24.95
1,794	559371.56	4243547.75	UCART1	24.74
1,795	559391.56	4243547.75	UCART1	24.89
1,796	559411.56	4243547.75	UCART1	24.65
1,797	559431.56	4243547.75	UCART1	24.04
1,798	559451.56	4243547.75	UCART1	24.04
1,799	559471.56	4243547.75	UCART1	24.36
1,800	559491.56	4243547.75	UCART1	24.69
1,801	559511.56	4243547.75	UCART1	24.58
1,802	559531.56	4243547.75	UCART1	24.51
1,803	559551.56	4243547.75	UCART1	24.33
1,804	559571.56	4243547.75	UCART1	23.97
1,805	559591.56	4243547.75	UCART1	23.91
1,806	559611.56	4243547.75	UCART1	23.49
1,807	559631.56	4243547.75	UCART1	22.95
1,808	559651.56	4243547.75	UCART1	23.60
1,809	559671.56	4243547.75	UCART1	23.74
1,810	559691.56	4243547.75	UCART1	23.77
1,811	559711.56	4243547.75	UCART1	23.58
1,812	559731.56	4243547.75	UCART1	23.68
1,813	559751.56	4243547.75	UCART1	23.33
1,814	559771.56	4243547.75	UCART1	23.19
1,815	559791.56	4243547.75	UCART1	23.08
1,816	559811.56	4243547.75	UCART1	22.97

1,817	559831.56	4243547.75	UCART1	22.82
1,818	559851.56	4243547.75	UCART1	22.83
1,819	559871.56	4243547.75	UCART1	22.80
1,820	559891.56	4243547.75	UCART1	22.65
1,821	559911.56	4243547.75	UCART1	22.51
1,822	559931.56	4243547.75	UCART1	22.47
1,823	559951.56	4243547.75	UCART1	22.45
1,824	559971.56	4243547.75	UCART1	22.48
1,825	558991.56	4243567.75	UCART1	25.97
1,826	559011.56	4243567.75	UCART1	26.09
1,827	559031.56	4243567.75	UCART1	25.93
1,828	559051.56	4243567.75	UCART1	25.86
1,829	559071.56	4243567.75	UCART1	25.70
1,830	559091.56	4243567.75	UCART1	25.22
1,831	559111.56	4243567.75	UCART1	25.58
1,832	559171.56	4243567.75	UCART1	25.94
1,833	559191.56	4243567.75	UCART1	25.05
1,834	559211.56	4243567.75	UCART1	25.20
1,835	559231.56	4243567.75	UCART1	24.95
1,836	559251.56	4243567.75	UCART1	24.64
1,837	559271.56	4243567.75	UCART1	24.67
1,838	559291.56	4243567.75	UCART1	25.02
1,839	559311.56	4243567.75	UCART1	25.33
1,840	559331.56	4243567.75	UCART1	25.56
1,841	559351.56	4243567.75	UCART1	25.52
1,842	559371.56	4243567.75	UCART1	25.01
1,843	559391.56	4243567.75	UCART1	25.14
1,844	559411.56	4243567.75	UCART1	25.22
1,845	559431.56	4243567.75	UCART1	24.42
1,846	559451.56	4243567.75	UCART1	24.68
1,847	559471.56	4243567.75	UCART1	24.04
1,848	559491.56	4243567.75	UCART1	23.86
1,849	559511.56	4243567.75	UCART1	24.03
1,850	559531.56	4243567.75	UCART1	24.37
1,851	559551.56	4243567.75	UCART1	24.48
1,852	559571.56	4243567.75	UCART1	24.40
1,853	559591.56	4243567.75	UCART1	24.20
1,854	559611.56	4243567.75	UCART1	23.88

1,855	559631.56	4243567.75	UCART1	23.84
1,856	559651.56	4243567.75	UCART1	23.64
1,857	559671.56	4243567.75	UCART1	23.68
1,858	559691.56	4243567.75	UCART1	23.47
1,859	559711.56	4243567.75	UCART1	23.01
1,860	559731.56	4243567.75	UCART1	23.16
1,861	559751.56	4243567.75	UCART1	23.27
1,862	559771.56	4243567.75	UCART1	23.38
1,863	559791.56	4243567.75	UCART1	23.38
1,864	559811.56	4243567.75	UCART1	23.16
1,865	559831.56	4243567.75	UCART1	23.09
1,866	559851.56	4243567.75	UCART1	23.18
1,867	559871.56	4243567.75	UCART1	23.11
1,868	559891.56	4243567.75	UCART1	22.98
1,869	559911.56	4243567.75	UCART1	22.84
1,870	559931.56	4243567.75	UCART1	22.68
1,871	559951.56	4243567.75	UCART1	22.48
1,872	559971.56	4243567.75	UCART1	22.29
1,873	558991.56	4243587.75	UCART1	26.14
1,874	559011.56	4243587.75	UCART1	26.18
1,875	559031.56	4243587.75	UCART1	26.11
1,876	559051.56	4243587.75	UCART1	26.10
1,877	559071.56	4243587.75	UCART1	25.24
1,878	559091.56	4243587.75	UCART1	26.02
1,879	559151.56	4243587.75	UCART1	25.78
1,880	559171.56	4243587.75	UCART1	26.23
1,881	559191.56	4243587.75	UCART1	25.33
1,882	559211.56	4243587.75	UCART1	25.24
1,883	559231.56	4243587.75	UCART1	25.46
1,884	559251.56	4243587.75	UCART1	25.20
1,885	559271.56	4243587.75	UCART1	24.92
1,886	559291.56	4243587.75	UCART1	24.63
1,887	559311.56	4243587.75	UCART1	24.83
1,888	559331.56	4243587.75	UCART1	25.10
1,889	559351.56	4243587.75	UCART1	25.38
1,890	559371.56	4243587.75	UCART1	25.01
1,891	559391.56	4243587.75	UCART1	25.06
1,892	559411.56	4243587.75	UCART1	25.01

1,893	559431.56	4243587.75	UCART1	24.75
1,894	559451.56	4243587.75	UCART1	24.85
1,895	559471.56	4243587.75	UCART1	24.83
1,896	559491.56	4243587.75	UCART1	24.67
1,897	559511.56	4243587.75	UCART1	24.18
1,898	559531.56	4243587.75	UCART1	23.73
1,899	559551.56	4243587.75	UCART1	23.72
1,900	559571.56	4243587.75	UCART1	24.01
1,901	559591.56	4243587.75	UCART1	24.20
1,902	559611.56	4243587.75	UCART1	24.25
1,903	559631.56	4243587.75	UCART1	24.11
1,904	559651.56	4243587.75	UCART1	23.87
1,905	559671.56	4243587.75	UCART1	23.67
1,906	559691.56	4243587.75	UCART1	23.10
1,907	559711.56	4243587.75	UCART1	23.23
1,908	559731.56	4243587.75	UCART1	23.05
1,909	559751.56	4243587.75	UCART1	22.88
1,910	559771.56	4243587.75	UCART1	23.02
1,911	559791.56	4243587.75	UCART1	23.33
1,912	559811.56	4243587.75	UCART1	23.37
1,913	559831.56	4243587.75	UCART1	23.51
1,914	559851.56	4243587.75	UCART1	22.91
1,915	559871.56	4243587.75	UCART1	23.11
1,916	559891.56	4243587.75	UCART1	23.16
1,917	559911.56	4243587.75	UCART1	23.11
1,918	559931.56	4243587.75	UCART1	22.94
1,919	559951.56	4243587.75	UCART1	22.71
1,920	559971.56	4243587.75	UCART1	22.49
1,921	558991.56	4243607.75	UCART1	26.27
1,922	559011.56	4243607.75	UCART1	26.28
1,923	559031.56	4243607.75	UCART1	26.44
1,924	559051.56	4243607.75	UCART1	25.98
1,925	559071.56	4243607.75	UCART1	25.99
1,926	559091.56	4243607.75	UCART1	25.73
1,927	559151.56	4243607.75	UCART1	25.85
1,928	559171.56	4243607.75	UCART1	25.53
1,929	559191.56	4243607.75	UCART1	25.65
1,930	559211.56	4243607.75	UCART1	25.17

1,931	559231.56	4243607.75	UCART1	25.83
1,932	559251.56	4243607.75	UCART1	25.66
1,933	559271.56	4243607.75	UCART1	25.34
1,934	559291.56	4243607.75	UCART1	25.35
1,935	559311.56	4243607.75	UCART1	25.09
1,936	559331.56	4243607.75	UCART1	25.37
1,937	559351.56	4243607.75	UCART1	25.38
1,938	559371.56	4243607.75	UCART1	25.25
1,939	559391.56	4243607.75	UCART1	25.12
1,940	559411.56	4243607.75	UCART1	24.96
1,941	559431.56	4243607.75	UCART1	24.87
1,942	559451.56	4243607.75	UCART1	24.76
1,943	559471.56	4243607.75	UCART1	24.66
1,944	559491.56	4243607.75	UCART1	24.70
1,945	559511.56	4243607.75	UCART1	24.72
1,946	559531.56	4243607.75	UCART1	24.56
1,947	559551.56	4243607.75	UCART1	23.87
1,948	559571.56	4243607.75	UCART1	23.63
1,949	559591.56	4243607.75	UCART1	23.51
1,950	559611.56	4243607.75	UCART1	23.72
1,951	559631.56	4243607.75	UCART1	24.03
1,952	559651.56	4243607.75	UCART1	23.68
1,953	559671.56	4243607.75	UCART1	23.38
1,954	559691.56	4243607.75	UCART1	23.13
1,955	559711.56	4243607.75	UCART1	23.57
1,956	559731.56	4243607.75	UCART1	23.60
1,957	559751.56	4243607.75	UCART1	23.36
1,958	559771.56	4243607.75	UCART1	23.03
1,959	559791.56	4243607.75	UCART1	22.80
1,960	559811.56	4243607.75	UCART1	22.83
1,961	559831.56	4243607.75	UCART1	22.97
1,962	559851.56	4243607.75	UCART1	22.71
1,963	559871.56	4243607.75	UCART1	23.24
1,964	559891.56	4243607.75	UCART1	23.02
1,965	559911.56	4243607.75	UCART1	22.92
1,966	559931.56	4243607.75	UCART1	22.92
1,967	559951.56	4243607.75	UCART1	22.85
1,968	559971.56	4243607.75	UCART1	22.68

1,969	558991.56	4243627.75	UCART1	26.47
1,970	559011.56	4243627.75	UCART1	26.55
1,971	559031.56	4243627.75	UCART1	26.60
1,972	559051.56	4243627.75	UCART1	25.39
1,973	559071.56	4243627.75	UCART1	26.16
1,974	559131.56	4243627.75	UCART1	26.11
1,975	559151.56	4243627.75	UCART1	25.86
1,976	559171.56	4243627.75	UCART1	25.52
1,977	559191.56	4243627.75	UCART1	25.34
1,978	559211.56	4243627.75	UCART1	25.24
1,979	559231.56	4243627.75	UCART1	25.84
1,980	559251.56	4243627.75	UCART1	26.08
1,981	559271.56	4243627.75	UCART1	26.18
1,982	559291.56	4243627.75	UCART1	26.01
1,983	559311.56	4243627.75	UCART1	25.67
1,984	559331.56	4243627.75	UCART1	25.62
1,985	559351.56	4243627.75	UCART1	25.59
1,986	559371.56	4243627.75	UCART1	25.37
1,987	559391.56	4243627.75	UCART1	25.14
1,988	559411.56	4243627.75	UCART1	25.05
1,989	559431.56	4243627.75	UCART1	24.97
1,990	559451.56	4243627.75	UCART1	24.81
1,991	559471.56	4243627.75	UCART1	24.61
1,992	559491.56	4243627.75	UCART1	24.54
1,993	559511.56	4243627.75	UCART1	24.55
1,994	559531.56	4243627.75	UCART1	24.51
1,995	559551.56	4243627.75	UCART1	24.07
1,996	559571.56	4243627.75	UCART1	24.25
1,997	559591.56	4243627.75	UCART1	24.02
1,998	559611.56	4243627.75	UCART1	23.58
1,999	559631.56	4243627.75	UCART1	23.35
2,000	559651.56	4243627.75	UCART1	23.39
2,001	559671.56	4243627.75	UCART1	23.17
2,002	559691.56	4243627.75	UCART1	23.44
2,003	559711.56	4243627.75	UCART1	23.81
2,004	559731.56	4243627.75	UCART1	23.77
2,005	559751.56	4243627.75	UCART1	23.66
2,006	559771.56	4243627.75	UCART1	23.51

2,007	559791.56	4243627.75	UCART1	23.34
2,008	559811.56	4243627.75	UCART1	23.15
2,009	559831.56	4243627.75	UCART1	22.63
2,010	559851.56	4243627.75	UCART1	22.71
2,011	559871.56	4243627.75	UCART1	23.18
2,012	559891.56	4243627.75	UCART1	22.81
2,013	559911.56	4243627.75	UCART1	22.75
2,014	559931.56	4243627.75	UCART1	22.68
2,015	559951.56	4243627.75	UCART1	22.67
2,016	559971.56	4243627.75	UCART1	22.58
2,017	558991.56	4243647.75	UCART1	26.96
2,018	559011.56	4243647.75	UCART1	26.91
2,019	559031.56	4243647.75	UCART1	25.94
2,020	559051.56	4243647.75	UCART1	26.54
2,021	559131.56	4243647.75	UCART1	26.29
2,022	559151.56	4243647.75	UCART1	26.17
2,023	559171.56	4243647.75	UCART1	26.01
2,024	559191.56	4243647.75	UCART1	25.86
2,025	559211.56	4243647.75	UCART1	25.33
2,026	559231.56	4243647.75	UCART1	25.44
2,027	559251.56	4243647.75	UCART1	25.65
2,028	559271.56	4243647.75	UCART1	25.89
2,029	559291.56	4243647.75	UCART1	26.34
2,030	559311.56	4243647.75	UCART1	26.13
2,031	559331.56	4243647.75	UCART1	25.65
2,032	559351.56	4243647.75	UCART1	25.56
2,033	559371.56	4243647.75	UCART1	25.33
2,034	559391.56	4243647.75	UCART1	25.16
2,035	559411.56	4243647.75	UCART1	25.18
2,036	559431.56	4243647.75	UCART1	25.09
2,037	559451.56	4243647.75	UCART1	24.84
2,038	559471.56	4243647.75	UCART1	24.66
2,039	559491.56	4243647.75	UCART1	24.59
2,040	559511.56	4243647.75	UCART1	24.57
2,041	559531.56	4243647.75	UCART1	24.39
2,042	559551.56	4243647.75	UCART1	24.33
2,043	559571.56	4243647.75	UCART1	24.26
2,044	559591.56	4243647.75	UCART1	24.13

2,045	559611.56	4243647.75	UCART1	24.09
2,046	559631.56	4243647.75	UCART1	23.57
2,047	559651.56	4243647.75	UCART1	23.24
2,048	559671.56	4243647.75	UCART1	23.32
2,049	559691.56	4243647.75	UCART1	23.67
2,050	559711.56	4243647.75	UCART1	23.87
2,051	559731.56	4243647.75	UCART1	23.71
2,052	559751.56	4243647.75	UCART1	23.56
2,053	559771.56	4243647.75	UCART1	23.60
2,054	559791.56	4243647.75	UCART1	23.39
2,055	559811.56	4243647.75	UCART1	22.87
2,056	559831.56	4243647.75	UCART1	22.95
2,057	559851.56	4243647.75	UCART1	22.87
2,058	559871.56	4243647.75	UCART1	22.51
2,059	559891.56	4243647.75	UCART1	22.48
2,060	559911.56	4243647.75	UCART1	22.47
2,061	559931.56	4243647.75	UCART1	22.46
2,062	559951.56	4243647.75	UCART1	22.71
2,063	559971.56	4243647.75	UCART1	22.84
2,064	558991.56	4243667.75	UCART1	27.07
2,065	559011.56	4243667.75	UCART1	26.91
2,066	559031.56	4243667.75	UCART1	26.12
2,067	559051.56	4243667.75	UCART1	26.36
2,068	559111.56	4243667.75	UCART1	26.56
2,069	559131.56	4243667.75	UCART1	26.83
2,070	559151.56	4243667.75	UCART1	26.49
2,071	559171.56	4243667.75	UCART1	25.97
2,072	559191.56	4243667.75	UCART1	25.96
2,073	559211.56	4243667.75	UCART1	25.45
2,074	559231.56	4243667.75	UCART1	25.99
2,075	559251.56	4243667.75	UCART1	25.78
2,076	559271.56	4243667.75	UCART1	25.97
2,077	559291.56	4243667.75	UCART1	26.30
2,078	559311.56	4243667.75	UCART1	25.83
2,079	559331.56	4243667.75	UCART1	25.68
2,080	559351.56	4243667.75	UCART1	25.52
2,081	559371.56	4243667.75	UCART1	25.30
2,082	559391.56	4243667.75	UCART1	25.27

2,083	559411.56	4243667.75	UCART1	25.29
2,084	559431.56	4243667.75	UCART1	25.17
2,085	559451.56	4243667.75	UCART1	25.13
2,086	559471.56	4243667.75	UCART1	24.90
2,087	559491.56	4243667.75	UCART1	24.77
2,088	559511.56	4243667.75	UCART1	24.56
2,089	559531.56	4243667.75	UCART1	24.49
2,090	559551.56	4243667.75	UCART1	24.45
2,091	559571.56	4243667.75	UCART1	24.22
2,092	559591.56	4243667.75	UCART1	24.13
2,093	559611.56	4243667.75	UCART1	23.88
2,094	559631.56	4243667.75	UCART1	23.51
2,095	559651.56	4243667.75	UCART1	23.31
2,096	559671.56	4243667.75	UCART1	23.60
2,097	559691.56	4243667.75	UCART1	23.78
2,098	559711.56	4243667.75	UCART1	23.93
2,099	559731.56	4243667.75	UCART1	22.98
2,100	559751.56	4243667.75	UCART1	23.07
2,101	559771.56	4243667.75	UCART1	23.47
2,102	559791.56	4243667.75	UCART1	23.21
2,103	559811.56	4243667.75	UCART1	22.73
2,104	559831.56	4243667.75	UCART1	23.37
2,105	559851.56	4243667.75	UCART1	23.35
2,106	559871.56	4243667.75	UCART1	22.95
2,107	559891.56	4243667.75	UCART1	22.28
2,108	559911.56	4243667.75	UCART1	22.38
2,109	559931.56	4243667.75	UCART1	22.26
2,110	559951.56	4243667.75	UCART1	22.19
2,111	559971.56	4243667.75	UCART1	22.40
2,112	558991.56	4243687.75	UCART1	27.08
2,113	559011.56	4243687.75	UCART1	27.06
2,114	559031.56	4243687.75	UCART1	26.96
2,115	559091.56	4243687.75	UCART1	26.31
2,116	559111.56	4243687.75	UCART1	26.77
2,117	559131.56	4243687.75	UCART1	26.86
2,118	559151.56	4243687.75	UCART1	26.45
2,119	559171.56	4243687.75	UCART1	26.17
2,120	559191.56	4243687.75	UCART1	25.69

2,121	559211.56	4243687.75	UCART1	25.70
2,122	559231.56	4243687.75	UCART1	26.20
2,123	559251.56	4243687.75	UCART1	26.24
2,124	559271.56	4243687.75	UCART1	26.35
2,125	559291.56	4243687.75	UCART1	26.03
2,126	559311.56	4243687.75	UCART1	25.82
2,127	559331.56	4243687.75	UCART1	25.89
2,128	559351.56	4243687.75	UCART1	25.47
2,129	559371.56	4243687.75	UCART1	25.38
2,130	559391.56	4243687.75	UCART1	25.47
2,131	559411.56	4243687.75	UCART1	25.38
2,132	559431.56	4243687.75	UCART1	25.32
2,133	559451.56	4243687.75	UCART1	25.29
2,134	559471.56	4243687.75	UCART1	25.24
2,135	559491.56	4243687.75	UCART1	24.89
2,136	559511.56	4243687.75	UCART1	24.59
2,137	559531.56	4243687.75	UCART1	24.63
2,138	559551.56	4243687.75	UCART1	24.63
2,139	559571.56	4243687.75	UCART1	24.37
2,140	559591.56	4243687.75	UCART1	24.06
2,141	559611.56	4243687.75	UCART1	23.77
2,142	559631.56	4243687.75	UCART1	23.36
2,143	559651.56	4243687.75	UCART1	23.52
2,144	559671.56	4243687.75	UCART1	23.71
2,145	559691.56	4243687.75	UCART1	23.91
2,146	559711.56	4243687.75	UCART1	23.97
2,147	559731.56	4243687.75	UCART1	23.25
2,148	559751.56	4243687.75	UCART1	23.06
2,149	559771.56	4243687.75	UCART1	23.00
2,150	559791.56	4243687.75	UCART1	22.82
2,151	559811.56	4243687.75	UCART1	23.17
2,152	559831.56	4243687.75	UCART1	23.38
2,153	559851.56	4243687.75	UCART1	23.08
2,154	559871.56	4243687.75	UCART1	22.77
2,155	559891.56	4243687.75	UCART1	22.23
2,156	559911.56	4243687.75	UCART1	22.84
2,157	559931.56	4243687.75	UCART1	22.83
2,158	559951.56	4243687.75	UCART1	22.53

2,159	559971.56	4243687.75	UCART1	22.12
2,160	558991.56	4243707.75	UCART1	27.27
2,161	559011.56	4243707.75	UCART1	26.58
2,162	559031.56	4243707.75	UCART1	27.00
2,163	559091.56	4243707.75	UCART1	26.71
2,164	559111.56	4243707.75	UCART1	26.96
2,165	559131.56	4243707.75	UCART1	26.66
2,166	559151.56	4243707.75	UCART1	26.31
2,167	559171.56	4243707.75	UCART1	26.42
2,168	559191.56	4243707.75	UCART1	25.72
2,169	559211.56	4243707.75	UCART1	26.03
2,170	559231.56	4243707.75	UCART1	26.19
2,171	559251.56	4243707.75	UCART1	25.95
2,172	559271.56	4243707.75	UCART1	26.14
2,173	559291.56	4243707.75	UCART1	25.95
2,174	559311.56	4243707.75	UCART1	25.91
2,175	559331.56	4243707.75	UCART1	25.77
2,176	559351.56	4243707.75	UCART1	25.54
2,177	559371.56	4243707.75	UCART1	25.57
2,178	559391.56	4243707.75	UCART1	25.46
2,179	559411.56	4243707.75	UCART1	25.46
2,180	559431.56	4243707.75	UCART1	25.29
2,181	559451.56	4243707.75	UCART1	25.20
2,182	559471.56	4243707.75	UCART1	25.13
2,183	559491.56	4243707.75	UCART1	24.82
2,184	559511.56	4243707.75	UCART1	24.70
2,185	559531.56	4243707.75	UCART1	24.68
2,186	559551.56	4243707.75	UCART1	24.55
2,187	559571.56	4243707.75	UCART1	24.41
2,188	559591.56	4243707.75	UCART1	23.99
2,189	559611.56	4243707.75	UCART1	23.54
2,190	559631.56	4243707.75	UCART1	23.45
2,191	559651.56	4243707.75	UCART1	23.85
2,192	559671.56	4243707.75	UCART1	23.90
2,193	559691.56	4243707.75	UCART1	23.86
2,194	559711.56	4243707.75	UCART1	23.88
2,195	559731.56	4243707.75	UCART1	23.92
2,196	559751.56	4243707.75	UCART1	23.60

2,197	559771.56	4243707.75	UCART1	22.94
2,198	559791.56	4243707.75	UCART1	22.98
2,199	559811.56	4243707.75	UCART1	23.38
2,200	559831.56	4243707.75	UCART1	23.25
2,201	559851.56	4243707.75	UCART1	23.05
2,202	559871.56	4243707.75	UCART1	22.36
2,203	559891.56	4243707.75	UCART1	22.74
2,204	559911.56	4243707.75	UCART1	23.00
2,205	559931.56	4243707.75	UCART1	22.83
2,206	559951.56	4243707.75	UCART1	22.70
2,207	559971.56	4243707.75	UCART1	22.46
2,208	558991.56	4243727.75	UCART1	26.72
2,209	559011.56	4243727.75	UCART1	26.90
2,210	559071.56	4243727.75	UCART1	26.70
2,211	559091.56	4243727.75	UCART1	26.77
2,212	559111.56	4243727.75	UCART1	26.72
2,213	559131.56	4243727.75	UCART1	26.33
2,214	559151.56	4243727.75	UCART1	26.19
2,215	559171.56	4243727.75	UCART1	26.17
2,216	559191.56	4243727.75	UCART1	26.18
2,217	559211.56	4243727.75	UCART1	26.36
2,218	559231.56	4243727.75	UCART1	26.17
2,219	559251.56	4243727.75	UCART1	26.09
2,220	559271.56	4243727.75	UCART1	26.11
2,221	559291.56	4243727.75	UCART1	26.05
2,222	559311.56	4243727.75	UCART1	25.89
2,223	559331.56	4243727.75	UCART1	25.67
2,224	559351.56	4243727.75	UCART1	25.68
2,225	559371.56	4243727.75	UCART1	25.65
2,226	559391.56	4243727.75	UCART1	25.55
2,227	559411.56	4243727.75	UCART1	25.45
2,228	559431.56	4243727.75	UCART1	25.35
2,229	559451.56	4243727.75	UCART1	25.16
2,230	559471.56	4243727.75	UCART1	25.00
2,231	559491.56	4243727.75	UCART1	24.82
2,232	559511.56	4243727.75	UCART1	24.99
2,233	559531.56	4243727.75	UCART1	24.70
2,234	559551.56	4243727.75	UCART1	24.47

2,235	559571.56	4243727.75	UCART1	24.17
2,236	559591.56	4243727.75	UCART1	23.80
2,237	559611.56	4243727.75	UCART1	23.46
2,238	559631.56	4243727.75	UCART1	23.78
2,239	559651.56	4243727.75	UCART1	23.95
2,240	559671.56	4243727.75	UCART1	23.94
2,241	559691.56	4243727.75	UCART1	23.39
2,242	559711.56	4243727.75	UCART1	23.56
2,243	559731.56	4243727.75	UCART1	23.63
2,244	559751.56	4243727.75	UCART1	23.36
2,245	559771.56	4243727.75	UCART1	22.86
2,246	559791.56	4243727.75	UCART1	23.41
2,247	559811.56	4243727.75	UCART1	23.39
2,248	559831.56	4243727.75	UCART1	23.13
2,249	559851.56	4243727.75	UCART1	22.53
2,250	559871.56	4243727.75	UCART1	22.37
2,251	559891.56	4243727.75	UCART1	22.99
2,252	559911.56	4243727.75	UCART1	22.90
2,253	559931.56	4243727.75	UCART1	22.63
2,254	559951.56	4243727.75	UCART1	22.33
2,255	559971.56	4243727.75	UCART1	22.03

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	UCART1	Receptors generated from Uniform Cartesian Grid

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: ConHRA.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: ConHRA.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 4.30 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013			OAKLAND/WSO AP
Upper Air		2013			
On-Site		2013			

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No
8	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: ConHRA.AD

Averaging Period	Source Group ID	High Value	File Name
1	Onsite	1st	1HROnsite.PLT
8	Onsite	1st	8HROnsite.PLT
Period	Onsite		PERIODHROnsite.PLT
1	Offsite	1st	1HROffsite.PLT
8	Offsite	1st	8HROffsite.PLT
Period	Offsite		PERIODOffsite.PLT

Results Summary

F:\Jobs\65660001\ConHRA\ConHRA.isc
Construction HRA - Byway East

PM10 - Concentration - Source Group: OFFSITE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	2123.97312	ug/m^3	559351.56	4243307.75	23.62	0.00	23.62	12/8/2014, 9
8-HR	1ST	1044.50404	ug/m^3	559351.56	4243307.75	23.62	0.00	23.62	12/8/2014, 16
PERIOD		101.15769	ug/m^3	559351.56	4243307.75	23.62	0.00	23.62	

PM10 - Concentration - Source Group: ONSITE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	6170.46465	ug/m^3	559391.56	4243287.75	23.32	0.00	23.32	12/8/2014, 9
8-HR	1ST	1879.49290	ug/m^3	559451.56	4243307.75	23.09	0.00	23.09	12/8/2014, 16
PERIOD		148.08928	ug/m^3	559451.56	4243307.75	23.09	0.00	23.09	

*HARP - HRACalc v22118 6/30/2026 8:02:18 PM - Cancer Risk - Input File: F:\Jobs\65660001\ConHRA\HARP\BYWAY EAST\hra\Residentialv3HRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK
1259	ALL		559451.6	4243307.75	5.57E-06	1.65YrCancerDerived_Inh_FAH3to16	5.57E-06
1301	ALL		559491.6	4243327.75	5.02E-06	1.65YrCancerDerived_Inh_FAH3to16	5.02E-06
1258	ALL		559431.6	4243307.75	5.00E-06	1.65YrCancerDerived_Inh_FAH3to16	5.00E-06
1300	ALL		559471.6	4243327.75	4.53E-06	1.65YrCancerDerived_Inh_FAH3to16	4.53E-06
1218	ALL		559391.6	4243287.75	4.41E-06	1.65YrCancerDerived_Inh_FAH3to16	4.41E-06
1302	ALL		559531.6	4243327.75	4.27E-06	1.65YrCancerDerived_Inh_FAH3to16	4.27E-06
1257	ALL		559411.6	4243307.75	4.07E-06	1.65YrCancerDerived_Inh_FAH3to16	4.07E-06
1299	ALL		559451.6	4243327.75	3.92E-06	1.65YrCancerDerived_Inh_FAH3to16	3.92E-06
1345	ALL		559511.6	4243347.75	3.60E-06	1.65YrCancerDerived_Inh_FAH3to16	3.60E-06
1344	ALL		559491.6	4243347.75	3.38E-06	1.65YrCancerDerived_Inh_FAH3to16	3.38E-06
1298	ALL		559431.6	4243327.75	3.30E-06	1.65YrCancerDerived_Inh_FAH3to16	3.30E-06
1056	ALL		559411.6	4243207.75	3.20E-06	1.65YrCancerDerived_Inh_FAH3to16	3.20E-06
1346	ALL		559531.6	4243347.75	3.10E-06	1.65YrCancerDerived_Inh_FAH3to16	3.10E-06
1343	ALL		559471.6	4243347.75	3.03E-06	1.65YrCancerDerived_Inh_FAH3to16	3.03E-06
1057	ALL		559431.6	4243207.75	3.01E-06	1.65YrCancerDerived_Inh_FAH3to16	3.01E-06
1256	ALL		559391.6	4243307.75	2.99E-06	1.65YrCancerDerived_Inh_FAH3to16	2.99E-06
1217	ALL		559371.6	4243287.75	2.81E-06	1.65YrCancerDerived_Inh_FAH3to16	2.81E-06
1101	ALL		559451.6	4243227.75	2.75E-06	1.65YrCancerDerived_Inh_FAH3to16	2.75E-06
1260	ALL		559551.6	4243307.75	2.70E-06	1.65YrCancerDerived_Inh_FAH3to16	2.70E-06
1342	ALL		559451.6	4243347.75	2.66E-06	1.65YrCancerDerived_Inh_FAH3to16	2.66E-06
1297	ALL		559411.6	4243327.75	2.66E-06	1.65YrCancerDerived_Inh_FAH3to16	2.66E-06
1012	ALL		559431.6	4243187.75	2.60E-06	1.65YrCancerDerived_Inh_FAH3to16	2.60E-06
1303	ALL		559551.6	4243327.75	2.52E-06	1.65YrCancerDerived_Inh_FAH3to16	2.52E-06
1389	ALL		559511.6	4243367.75	2.40E-06	1.65YrCancerDerived_Inh_FAH3to16	2.40E-06
1388	ALL		559491.6	4243367.75	2.35E-06	1.65YrCancerDerived_Inh_FAH3to16	2.35E-06
1341	ALL		559431.6	4243347.75	2.28E-06	1.65YrCancerDerived_Inh_FAH3to16	2.28E-06
1058	ALL		559451.6	4243207.75	2.26E-06	1.65YrCancerDerived_Inh_FAH3to16	2.26E-06
1102	ALL		559471.6	4243227.75	2.26E-06	1.65YrCancerDerived_Inh_FAH3to16	2.26E-06
1387	ALL		559471.6	4243367.75	2.17E-06	1.65YrCancerDerived_Inh_FAH3to16	2.17E-06
1390	ALL		559531.6	4243367.75	2.12E-06	1.65YrCancerDerived_Inh_FAH3to16	2.12E-06
1347	ALL		559551.6	4243347.75	2.04E-06	1.65YrCancerDerived_Inh_FAH3to16	2.04E-06
1143	ALL		559511.6	4243247.75	2.01E-06	1.65YrCancerDerived_Inh_FAH3to16	2.01E-06
1296	ALL		559391.6	4243327.75	1.98E-06	1.65YrCancerDerived_Inh_FAH3to16	1.98E-06
1219	ALL		559551.6	4243287.75	1.94E-06	1.65YrCancerDerived_Inh_FAH3to16	1.94E-06
1386	ALL		559451.6	4243367.75	1.94E-06	1.65YrCancerDerived_Inh_FAH3to16	1.94E-06
1013	ALL		559451.6	4243187.75	1.88E-06	1.65YrCancerDerived_Inh_FAH3to16	1.88E-06
1340	ALL		559411.6	4243347.75	1.86E-06	1.65YrCancerDerived_Inh_FAH3to16	1.86E-06
1255	ALL		559371.6	4243307.75	1.86E-06	1.65YrCancerDerived_Inh_FAH3to16	1.86E-06
1103	ALL		559491.6	4243227.75	1.77E-06	1.65YrCancerDerived_Inh_FAH3to16	1.77E-06
1433	ALL		559491.6	4243387.75	1.74E-06	1.65YrCancerDerived_Inh_FAH3to16	1.74E-06
1434	ALL		559511.6	4243387.75	1.73E-06	1.65YrCancerDerived_Inh_FAH3to16	1.73E-06
1059	ALL		559471.6	4243207.75	1.69E-06	1.65YrCancerDerived_Inh_FAH3to16	1.69E-06
968	ALL		559451.6	4243167.75	1.68E-06	1.65YrCancerDerived_Inh_FAH3to16	1.68E-06
1385	ALL		559431.6	4243367.75	1.68E-06	1.65YrCancerDerived_Inh_FAH3to16	1.68E-06
1432	ALL		559471.6	4243387.75	1.63E-06	1.65YrCancerDerived_Inh_FAH3to16	1.63E-06
924	ALL		559451.6	4243147.75	1.61E-06	1.65YrCancerDerived_Inh_FAH3to16	1.61E-06
1391	ALL		559551.6	4243367.75	1.58E-06	1.65YrCancerDerived_Inh_FAH3to16	1.58E-06
1435	ALL		559531.6	4243387.75	1.56E-06	1.65YrCancerDerived_Inh_FAH3to16	1.56E-06
1144	ALL		559531.6	4243247.75	1.49E-06	1.65YrCancerDerived_Inh_FAH3to16	1.49E-06
1431	ALL		559451.6	4243387.75	1.48E-06	1.65YrCancerDerived_Inh_FAH3to16	1.48E-06
1339	ALL		559391.6	4243347.75	1.41E-06	1.65YrCancerDerived_Inh_FAH3to16	1.41E-06
1384	ALL		559411.6	4243367.75	1.39E-06	1.65YrCancerDerived_Inh_FAH3to16	1.39E-06
1104	ALL		559511.6	4243227.75	1.37E-06	1.65YrCancerDerived_Inh_FAH3to16	1.37E-06
1304	ALL		559571.6	4243327.75	1.35E-06	1.65YrCancerDerived_Inh_FAH3to16	1.35E-06
1014	ALL		559471.6	4243187.75	1.34E-06	1.65YrCancerDerived_Inh_FAH3to16	1.34E-06
1479	ALL		559491.6	4243407.75	1.34E-06	1.65YrCancerDerived_Inh_FAH3to16	1.34E-06
1480	ALL		559511.6	4243407.75	1.32E-06	1.65YrCancerDerived_Inh_FAH3to16	1.32E-06
1295	ALL		559371.6	4243327.75	1.30E-06	1.65YrCancerDerived_Inh_FAH3to16	1.30E-06
1261	ALL		559571.6	4243307.75	1.30E-06	1.65YrCancerDerived_Inh_FAH3to16	1.30E-06
1430	ALL		559431.6	4243387.75	1.29E-06	1.65YrCancerDerived_Inh_FAH3to16	1.29E-06
1478	ALL		559471.6	4243407.75	1.28E-06	1.65YrCancerDerived_Inh_FAH3to16	1.28E-06
1060	ALL		559491.6	4243207.75	1.27E-06	1.65YrCancerDerived_Inh_FAH3to16	1.27E-06
1348	ALL		559571.6	4243347.75	1.25E-06	1.65YrCancerDerived_Inh_FAH3to16	1.25E-06
1436	ALL		559551.6	4243387.75	1.24E-06	1.65YrCancerDerived_Inh_FAH3to16	1.24E-06
1481	ALL		559531.6	4243407.75	1.20E-06	1.65YrCancerDerived_Inh_FAH3to16	1.20E-06
969	ALL		559471.6	4243167.75	1.18E-06	1.65YrCancerDerived_Inh_FAH3to16	1.18E-06
1477	ALL		559451.6	4243407.75	1.17E-06	1.65YrCancerDerived_Inh_FAH3to16	1.17E-06
1216	ALL		559351.6	4243287.75	1.16E-06	1.65YrCancerDerived_Inh_FAH3to16	1.16E-06
925	ALL		559471.6	4243147.75	1.14E-06	1.65YrCancerDerived_Inh_FAH3to16	1.14E-06
880	ALL		559471.6	4243127.75	1.13E-06	1.65YrCancerDerived_Inh_FAH3to16	1.13E-06
1392	ALL		559571.6	4243367.75	1.09E-06	1.65YrCancerDerived_Inh_FAH3to16	1.09E-06
1429	ALL		559411.6	4243387.75	1.08E-06	1.65YrCancerDerived_Inh_FAH3to16	1.08E-06

1383	ALL	559391.6	4243367.75	1.07E-06	1.65YrCancerDerived_Inh_FAH3to16	1.07E-06
1525	ALL	559491.6	4243427.75	1.06E-06	1.65YrCancerDerived_Inh_FAH3to16	1.06E-06
1526	ALL	559511.6	4243427.75	1.05E-06	1.65YrCancerDerived_Inh_FAH3to16	1.05E-06
1476	ALL	559431.6	4243407.75	1.03E-06	1.65YrCancerDerived_Inh_FAH3to16	1.03E-06
1524	ALL	559471.6	4243427.75	1.02E-06	1.65YrCancerDerived_Inh_FAH3to16	1.02E-06
1220	ALL	559571.6	4243287.75	1.00E-06	1.65YrCancerDerived_Inh_FAH3to16	1.00E-06
1482	ALL	559551.6	4243407.75	1.00E-06	1.65YrCancerDerived_Inh_FAH3to16	1.00E-06
1105	ALL	559531.6	4243227.75	1.00E-06	1.65YrCancerDerived_Inh_FAH3to16	1.00E-06
1015	ALL	559491.6	4243187.75	9.88E-07	1.65YrCancerDerived_Inh_FAH3to16	9.88E-07
1338	ALL	559371.6	4243347.75	9.73E-07	1.65YrCancerDerived_Inh_FAH3to16	9.73E-07
1527	ALL	559531.6	4243427.75	9.61E-07	1.65YrCancerDerived_Inh_FAH3to16	9.61E-07
1061	ALL	559511.6	4243207.75	9.61E-07	1.65YrCancerDerived_Inh_FAH3to16	9.61E-07
1254	ALL	559351.6	4243307.75	9.50E-07	1.65YrCancerDerived_Inh_FAH3to16	9.50E-07
1523	ALL	559451.6	4243427.75	9.43E-07	1.65YrCancerDerived_Inh_FAH3to16	9.43E-07
1437	ALL	559571.6	4243387.75	9.23E-07	1.65YrCancerDerived_Inh_FAH3to16	9.23E-07
1145	ALL	559551.6	4243247.75	9.15E-07	1.65YrCancerDerived_Inh_FAH3to16	9.15E-07
835	ALL	559471.6	4243107.75	9.02E-07	1.65YrCancerDerived_Inh_FAH3to16	9.02E-07
1571	ALL	559491.6	4243447.75	8.68E-07	1.65YrCancerDerived_Inh_FAH3to16	8.68E-07
1475	ALL	559411.6	4243407.75	8.62E-07	1.65YrCancerDerived_Inh_FAH3to16	8.62E-07
1572	ALL	559511.6	4243447.75	8.52E-07	1.65YrCancerDerived_Inh_FAH3to16	8.52E-07
1428	ALL	559391.6	4243387.75	8.47E-07	1.65YrCancerDerived_Inh_FAH3to16	8.47E-07
1570	ALL	559471.6	4243447.75	8.40E-07	1.65YrCancerDerived_Inh_FAH3to16	8.40E-07
1522	ALL	559431.6	4243427.75	8.36E-07	1.65YrCancerDerived_Inh_FAH3to16	8.36E-07
970	ALL	559491.6	4243167.75	8.33E-07	1.65YrCancerDerived_Inh_FAH3to16	8.33E-07
1528	ALL	559551.6	4243427.75	8.23E-07	1.65YrCancerDerived_Inh_FAH3to16	8.23E-07
1573	ALL	559531.6	4243447.75	7.89E-07	1.65YrCancerDerived_Inh_FAH3to16	7.89E-07
1349	ALL	559591.6	4243347.75	7.83E-07	1.65YrCancerDerived_Inh_FAH3to16	7.83E-07
1483	ALL	559571.6	4243407.75	7.83E-07	1.65YrCancerDerived_Inh_FAH3to16	7.83E-07
1569	ALL	559451.6	4243447.75	7.81E-07	1.65YrCancerDerived_Inh_FAH3to16	7.81E-07
1305	ALL	559591.6	4243327.75	7.75E-07	1.65YrCancerDerived_Inh_FAH3to16	7.75E-07
1382	ALL	559371.6	4243367.75	7.67E-07	1.65YrCancerDerived_Inh_FAH3to16	7.67E-07
1294	ALL	559351.6	4243327.75	7.55E-07	1.65YrCancerDerived_Inh_FAH3to16	7.55E-07
926	ALL	559491.6	4243147.75	7.40E-07	1.65YrCancerDerived_Inh_FAH3to16	7.40E-07
1393	ALL	559591.6	4243367.75	7.40E-07	1.65YrCancerDerived_Inh_FAH3to16	7.40E-07
1016	ALL	559511.6	4243187.75	7.40E-07	1.65YrCancerDerived_Inh_FAH3to16	7.40E-07
1617	ALL	559491.6	4243467.75	7.23E-07	1.65YrCancerDerived_Inh_FAH3to16	7.23E-07
1062	ALL	559531.6	4243207.75	7.15E-07	1.65YrCancerDerived_Inh_FAH3to16	7.15E-07
1521	ALL	559411.6	4243427.75	7.10E-07	1.65YrCancerDerived_Inh_FAH3to16	7.10E-07
1618	ALL	559511.6	4243467.75	7.08E-07	1.65YrCancerDerived_Inh_FAH3to16	7.08E-07
1616	ALL	559471.6	4243467.75	7.04E-07	1.65YrCancerDerived_Inh_FAH3to16	7.04E-07
1568	ALL	559431.6	4243447.75	6.98E-07	1.65YrCancerDerived_Inh_FAH3to16	6.98E-07
1262	ALL	559591.6	4243307.75	6.94E-07	1.65YrCancerDerived_Inh_FAH3to16	6.94E-07
1574	ALL	559551.6	4243447.75	6.90E-07	1.65YrCancerDerived_Inh_FAH3to16	6.90E-07
1474	ALL	559391.6	4243407.75	6.86E-07	1.65YrCancerDerived_Inh_FAH3to16	6.86E-07
1438	ALL	559591.6	4243387.75	6.72E-07	1.65YrCancerDerived_Inh_FAH3to16	6.72E-07
881	ALL	559491.6	4243127.75	6.71E-07	1.65YrCancerDerived_Inh_FAH3to16	6.71E-07
1529	ALL	559571.6	4243427.75	6.69E-07	1.65YrCancerDerived_Inh_FAH3to16	6.69E-07
1106	ALL	559551.6	4243227.75	6.67E-07	1.65YrCancerDerived_Inh_FAH3to16	6.67E-07
1181	ALL	559571.6	4243267.75	6.66E-07	1.65YrCancerDerived_Inh_FAH3to16	6.66E-07
1619	ALL	559531.6	4243467.75	6.59E-07	1.65YrCancerDerived_Inh_FAH3to16	6.59E-07
1615	ALL	559451.6	4243467.75	6.57E-07	1.65YrCancerDerived_Inh_FAH3to16	6.57E-07
1427	ALL	559371.6	4243387.75	6.20E-07	1.65YrCancerDerived_Inh_FAH3to16	6.20E-07
1337	ALL	559351.6	4243347.75	6.13E-07	1.65YrCancerDerived_Inh_FAH3to16	6.13E-07
1663	ALL	559491.6	4243487.75	6.11E-07	1.65YrCancerDerived_Inh_FAH3to16	6.11E-07
971	ALL	559511.6	4243167.75	6.04E-07	1.65YrCancerDerived_Inh_FAH3to16	6.04E-07
1664	ALL	559511.6	4243487.75	6.00E-07	1.65YrCancerDerived_Inh_FAH3to16	6.00E-07
1484	ALL	559591.6	4243407.75	5.99E-07	1.65YrCancerDerived_Inh_FAH3to16	5.99E-07
1567	ALL	559411.6	4243447.75	5.98E-07	1.65YrCancerDerived_Inh_FAH3to16	5.98E-07
1662	ALL	559471.6	4243487.75	5.97E-07	1.65YrCancerDerived_Inh_FAH3to16	5.97E-07
1614	ALL	559431.6	4243467.75	5.90E-07	1.65YrCancerDerived_Inh_FAH3to16	5.90E-07
1620	ALL	559551.6	4243467.75	5.84E-07	1.65YrCancerDerived_Inh_FAH3to16	5.84E-07
1575	ALL	559571.6	4243447.75	5.76E-07	1.65YrCancerDerived_Inh_FAH3to16	5.76E-07
1520	ALL	559391.6	4243427.75	5.75E-07	1.65YrCancerDerived_Inh_FAH3to16	5.75E-07
1665	ALL	559531.6	4243487.75	5.62E-07	1.65YrCancerDerived_Inh_FAH3to16	5.62E-07
1661	ALL	559451.6	4243487.75	5.59E-07	1.65YrCancerDerived_Inh_FAH3to16	5.59E-07
1017	ALL	559531.6	4243187.75	5.52E-07	1.65YrCancerDerived_Inh_FAH3to16	5.52E-07
1221	ALL	559591.6	4243287.75	5.51E-07	1.65YrCancerDerived_Inh_FAH3to16	5.51E-07
836	ALL	559491.6	4243107.75	5.49E-07	1.65YrCancerDerived_Inh_FAH3to16	5.49E-07
1530	ALL	559591.6	4243427.75	5.30E-07	1.65YrCancerDerived_Inh_FAH3to16	5.30E-07
1709	ALL	559491.6	4243507.75	5.23E-07	1.65YrCancerDerived_Inh_FAH3to16	5.23E-07
1146	ALL	559571.6	4243247.75	5.19E-07	1.65YrCancerDerived_Inh_FAH3to16	5.19E-07
1350	ALL	559611.6	4243347.75	5.18E-07	1.65YrCancerDerived_Inh_FAH3to16	5.18E-07
1394	ALL	559611.6	4243367.75	5.16E-07	1.65YrCancerDerived_Inh_FAH3to16	5.16E-07
1473	ALL	559371.6	4243407.75	5.16E-07	1.65YrCancerDerived_Inh_FAH3to16	5.16E-07

1710	ALL	559511.6	4243507.75	5.14E-07	1.65YrCancerDerived_Inh_FAH3to16	5.14E-07
1381	ALL	559351.6	4243367.75	5.12E-07	1.65YrCancerDerived_Inh_FAH3to16	5.12E-07
1708	ALL	559471.6	4243507.75	5.12E-07	1.65YrCancerDerived_Inh_FAH3to16	5.12E-07
927	ALL	559511.6	4243147.75	5.10E-07	1.65YrCancerDerived_Inh_FAH3to16	5.10E-07
1613	ALL	559411.6	4243467.75	5.08E-07	1.65YrCancerDerived_Inh_FAH3to16	5.08E-07
1063	ALL	559551.6	4243207.75	5.05E-07	1.65YrCancerDerived_Inh_FAH3to16	5.05E-07
1660	ALL	559431.6	4243487.75	5.04E-07	1.65YrCancerDerived_Inh_FAH3to16	5.04E-07
1666	ALL	559551.6	4243487.75	5.03E-07	1.65YrCancerDerived_Inh_FAH3to16	5.03E-07
1621	ALL	559571.6	4243467.75	5.00E-07	1.65YrCancerDerived_Inh_FAH3to16	5.00E-07
1439	ALL	559611.6	4243387.75	4.93E-07	1.65YrCancerDerived_Inh_FAH3to16	4.93E-07
1566	ALL	559391.6	4243447.75	4.90E-07	1.65YrCancerDerived_Inh_FAH3to16	4.90E-07
1306	ALL	559611.6	4243327.75	4.88E-07	1.65YrCancerDerived_Inh_FAH3to16	4.88E-07
1711	ALL	559531.6	4243507.75	4.85E-07	1.65YrCancerDerived_Inh_FAH3to16	4.85E-07
1707	ALL	559451.6	4243507.75	4.81E-07	1.65YrCancerDerived_Inh_FAH3to16	4.81E-07
1576	ALL	559591.6	4243447.75	4.69E-07	1.65YrCancerDerived_Inh_FAH3to16	4.69E-07
1485	ALL	559611.6	4243407.75	4.58E-07	1.65YrCancerDerived_Inh_FAH3to16	4.58E-07
1755	ALL	559491.6	4243527.75	4.53E-07	1.65YrCancerDerived_Inh_FAH3to16	4.53E-07
972	ALL	559531.6	4243167.75	4.47E-07	1.65YrCancerDerived_Inh_FAH3to16	4.47E-07
1756	ALL	559511.6	4243527.75	4.46E-07	1.65YrCancerDerived_Inh_FAH3to16	4.46E-07
1519	ALL	559371.6	4243427.75	4.45E-07	1.65YrCancerDerived_Inh_FAH3to16	4.45E-07
1754	ALL	559471.6	4243527.75	4.43E-07	1.65YrCancerDerived_Inh_FAH3to16	4.43E-07
1712	ALL	559551.6	4243507.75	4.40E-07	1.65YrCancerDerived_Inh_FAH3to16	4.40E-07
1659	ALL	559411.6	4243487.75	4.37E-07	1.65YrCancerDerived_Inh_FAH3to16	4.37E-07
1706	ALL	559431.6	4243507.75	4.36E-07	1.65YrCancerDerived_Inh_FAH3to16	4.36E-07
1667	ALL	559571.6	4243487.75	4.35E-07	1.65YrCancerDerived_Inh_FAH3to16	4.35E-07
882	ALL	559511.6	4243127.75	4.30E-07	1.65YrCancerDerived_Inh_FAH3to16	4.30E-07
1426	ALL	559351.6	4243387.75	4.27E-07	1.65YrCancerDerived_Inh_FAH3to16	4.27E-07
1263	ALL	559611.6	4243307.75	4.26E-07	1.65YrCancerDerived_Inh_FAH3to16	4.26E-07
1757	ALL	559531.6	4243527.75	4.22E-07	1.65YrCancerDerived_Inh_FAH3to16	4.22E-07
1612	ALL	559391.6	4243467.75	4.22E-07	1.65YrCancerDerived_Inh_FAH3to16	4.22E-07
1107	ALL	559571.6	4243227.75	4.20E-07	1.65YrCancerDerived_Inh_FAH3to16	4.20E-07
1531	ALL	559611.6	4243427.75	4.18E-07	1.65YrCancerDerived_Inh_FAH3to16	4.18E-07
1753	ALL	559451.6	4243527.75	4.18E-07	1.65YrCancerDerived_Inh_FAH3to16	4.18E-07
1622	ALL	559591.6	4243467.75	4.17E-07	1.65YrCancerDerived_Inh_FAH3to16	4.17E-07
1182	ALL	559591.6	4243267.75	4.14E-07	1.65YrCancerDerived_Inh_FAH3to16	4.14E-07
1018	ALL	559551.6	4243187.75	4.02E-07	1.65YrCancerDerived_Inh_FAH3to16	4.02E-07
1800	ALL	559491.6	4243547.75	3.96E-07	1.65YrCancerDerived_Inh_FAH3to16	3.96E-07
1801	ALL	559511.6	4243547.75	3.90E-07	1.65YrCancerDerived_Inh_FAH3to16	3.90E-07
1799	ALL	559471.6	4243547.75	3.88E-07	1.65YrCancerDerived_Inh_FAH3to16	3.88E-07
1713	ALL	559571.6	4243507.75	3.87E-07	1.65YrCancerDerived_Inh_FAH3to16	3.87E-07
1758	ALL	559551.6	4243527.75	3.86E-07	1.65YrCancerDerived_Inh_FAH3to16	3.86E-07
1565	ALL	559371.6	4243447.75	3.82E-07	1.65YrCancerDerived_Inh_FAH3to16	3.82E-07
1752	ALL	559431.6	4243527.75	3.81E-07	1.65YrCancerDerived_Inh_FAH3to16	3.81E-07
1705	ALL	559411.6	4243507.75	3.81E-07	1.65YrCancerDerived_Inh_FAH3to16	3.81E-07
1577	ALL	559611.6	4243447.75	3.80E-07	1.65YrCancerDerived_Inh_FAH3to16	3.80E-07
1395	ALL	559631.6	4243367.75	3.72E-07	1.65YrCancerDerived_Inh_FAH3to16	3.72E-07
1802	ALL	559531.6	4243547.75	3.71E-07	1.65YrCancerDerived_Inh_FAH3to16	3.71E-07
928	ALL	559531.6	4243147.75	3.71E-07	1.65YrCancerDerived_Inh_FAH3to16	3.71E-07
1472	ALL	559351.6	4243407.75	3.70E-07	1.65YrCancerDerived_Inh_FAH3to16	3.70E-07
1440	ALL	559631.6	4243387.75	3.68E-07	1.65YrCancerDerived_Inh_FAH3to16	3.68E-07
1668	ALL	559591.6	4243487.75	3.68E-07	1.65YrCancerDerived_Inh_FAH3to16	3.68E-07
1798	ALL	559451.6	4243547.75	3.67E-07	1.65YrCancerDerived_Inh_FAH3to16	3.67E-07
1658	ALL	559391.6	4243487.75	3.67E-07	1.65YrCancerDerived_Inh_FAH3to16	3.67E-07
1351	ALL	559631.6	4243347.75	3.59E-07	1.65YrCancerDerived_Inh_FAH3to16	3.59E-07
1486	ALL	559631.6	4243407.75	3.54E-07	1.65YrCancerDerived_Inh_FAH3to16	3.54E-07
791	ALL	559491.6	4243087.75	3.51E-07	1.65YrCancerDerived_Inh_FAH3to16	3.51E-07
1848	ALL	559491.6	4243567.75	3.49E-07	1.65YrCancerDerived_Inh_FAH3to16	3.49E-07
1222	ALL	559611.6	4243287.75	3.49E-07	1.65YrCancerDerived_Inh_FAH3to16	3.49E-07
837	ALL	559511.6	4243107.75	3.47E-07	1.65YrCancerDerived_Inh_FAH3to16	3.47E-07
1849	ALL	559511.6	4243567.75	3.45E-07	1.65YrCancerDerived_Inh_FAH3to16	3.45E-07
1064	ALL	559571.6	4243207.75	3.44E-07	1.65YrCancerDerived_Inh_FAH3to16	3.44E-07
1759	ALL	559571.6	4243527.75	3.44E-07	1.65YrCancerDerived_Inh_FAH3to16	3.44E-07
1623	ALL	559611.6	4243467.75	3.44E-07	1.65YrCancerDerived_Inh_FAH3to16	3.44E-07
1847	ALL	559471.6	4243567.75	3.42E-07	1.65YrCancerDerived_Inh_FAH3to16	3.42E-07
1803	ALL	559551.6	4243547.75	3.42E-07	1.65YrCancerDerived_Inh_FAH3to16	3.42E-07
1380	ALL	559331.6	4243367.75	3.41E-07	1.65YrCancerDerived_Inh_FAH3to16	3.41E-07
1797	ALL	559431.6	4243547.75	3.36E-07	1.65YrCancerDerived_Inh_FAH3to16	3.36E-07
1751	ALL	559411.6	4243527.75	3.36E-07	1.65YrCancerDerived_Inh_FAH3to16	3.36E-07
1611	ALL	559371.6	4243467.75	3.33E-07	1.65YrCancerDerived_Inh_FAH3to16	3.33E-07
1532	ALL	559631.6	4243427.75	3.33E-07	1.65YrCancerDerived_Inh_FAH3to16	3.33E-07
1714	ALL	559591.6	4243507.75	3.31E-07	1.65YrCancerDerived_Inh_FAH3to16	3.31E-07
973	ALL	559551.6	4243167.75	3.31E-07	1.65YrCancerDerived_Inh_FAH3to16	3.31E-07
1307	ALL	559631.6	4243327.75	3.30E-07	1.65YrCancerDerived_Inh_FAH3to16	3.30E-07
1147	ALL	559591.6	4243247.75	3.30E-07	1.65YrCancerDerived_Inh_FAH3to16	3.30E-07

1850	ALL	559531.6	4243567.75	3.29E-07	1.65YrCancerDerived_Inh_FAH3to16	3.29E-07
1518	ALL	559351.6	4243427.75	3.29E-07	1.65YrCancerDerived_Inh_FAH3to16	3.29E-07
879	ALL	559351.6	4243127.75	3.27E-07	1.65YrCancerDerived_Inh_FAH3to16	3.27E-07
1846	ALL	559451.6	4243567.75	3.24E-07	1.65YrCancerDerived_Inh_FAH3to16	3.24E-07
1704	ALL	559391.6	4243507.75	3.23E-07	1.65YrCancerDerived_Inh_FAH3to16	3.23E-07
1669	ALL	559611.6	4243487.75	3.10E-07	1.65YrCancerDerived_Inh_FAH3to16	3.10E-07
1896	ALL	559491.6	4243587.75	3.10E-07	1.65YrCancerDerived_Inh_FAH3to16	3.10E-07
1578	ALL	559631.6	4243447.75	3.09E-07	1.65YrCancerDerived_Inh_FAH3to16	3.09E-07
883	ALL	559531.6	4243127.75	3.08E-07	1.65YrCancerDerived_Inh_FAH3to16	3.08E-07
1804	ALL	559571.6	4243547.75	3.07E-07	1.65YrCancerDerived_Inh_FAH3to16	3.07E-07
1897	ALL	559511.6	4243587.75	3.07E-07	1.65YrCancerDerived_Inh_FAH3to16	3.07E-07
1851	ALL	559551.6	4243567.75	3.05E-07	1.65YrCancerDerived_Inh_FAH3to16	3.05E-07
746	ALL	559491.6	4243067.75	3.05E-07	1.65YrCancerDerived_Inh_FAH3to16	3.05E-07
1895	ALL	559471.6	4243587.75	3.04E-07	1.65YrCancerDerived_Inh_FAH3to16	3.04E-07
1760	ALL	559591.6	4243527.75	3.00E-07	1.65YrCancerDerived_Inh_FAH3to16	3.00E-07
1845	ALL	559431.6	4243567.75	2.98E-07	1.65YrCancerDerived_Inh_FAH3to16	2.98E-07
1796	ALL	559411.6	4243547.75	2.97E-07	1.65YrCancerDerived_Inh_FAH3to16	2.97E-07
1898	ALL	559531.6	4243587.75	2.94E-07	1.65YrCancerDerived_Inh_FAH3to16	2.94E-07
1657	ALL	559371.6	4243487.75	2.94E-07	1.65YrCancerDerived_Inh_FAH3to16	2.94E-07
1425	ALL	559331.6	4243387.75	2.91E-07	1.65YrCancerDerived_Inh_FAH3to16	2.91E-07
1894	ALL	559451.6	4243587.75	2.89E-07	1.65YrCancerDerived_Inh_FAH3to16	2.89E-07
1264	ALL	559631.6	4243307.75	2.88E-07	1.65YrCancerDerived_Inh_FAH3to16	2.88E-07
1019	ALL	559571.6	4243187.75	2.87E-07	1.65YrCancerDerived_Inh_FAH3to16	2.87E-07
790	ALL	559371.6	4243087.75	2.87E-07	1.65YrCancerDerived_Inh_FAH3to16	2.87E-07
745	ALL	559391.6	4243067.75	2.86E-07	1.65YrCancerDerived_Inh_FAH3to16	2.86E-07
1564	ALL	559351.6	4243447.75	2.86E-07	1.65YrCancerDerived_Inh_FAH3to16	2.86E-07
1750	ALL	559391.6	4243527.75	2.86E-07	1.65YrCancerDerived_Inh_FAH3to16	2.86E-07
1624	ALL	559631.6	4243467.75	2.85E-07	1.65YrCancerDerived_Inh_FAH3to16	2.85E-07
923	ALL	559331.6	4243147.75	2.83E-07	1.65YrCancerDerived_Inh_FAH3to16	2.83E-07
1715	ALL	559611.6	4243507.75	2.81E-07	1.65YrCancerDerived_Inh_FAH3to16	2.81E-07
1441	ALL	559651.6	4243387.75	2.80E-07	1.65YrCancerDerived_Inh_FAH3to16	2.80E-07
1183	ALL	559611.6	4243267.75	2.79E-07	1.65YrCancerDerived_Inh_FAH3to16	2.79E-07
1011	ALL	559311.6	4243187.75	2.77E-07	1.65YrCancerDerived_Inh_FAH3to16	2.77E-07
1944	ALL	559491.6	4243607.75	2.77E-07	1.65YrCancerDerived_Inh_FAH3to16	2.77E-07
1108	ALL	559591.6	4243227.75	2.77E-07	1.65YrCancerDerived_Inh_FAH3to16	2.77E-07
1487	ALL	559651.6	4243407.75	2.77E-07	1.65YrCancerDerived_Inh_FAH3to16	2.77E-07
929	ALL	559551.6	4243147.75	2.76E-07	1.65YrCancerDerived_Inh_FAH3to16	2.76E-07
1852	ALL	559571.6	4243567.75	2.75E-07	1.65YrCancerDerived_Inh_FAH3to16	2.75E-07
1396	ALL	559651.6	4243367.75	2.75E-07	1.65YrCancerDerived_Inh_FAH3to16	2.75E-07
1899	ALL	559551.6	4243587.75	2.75E-07	1.65YrCancerDerived_Inh_FAH3to16	2.75E-07
1945	ALL	559511.6	4243607.75	2.74E-07	1.65YrCancerDerived_Inh_FAH3to16	2.74E-07
1943	ALL	559471.6	4243607.75	2.72E-07	1.65YrCancerDerived_Inh_FAH3to16	2.72E-07
834	ALL	559351.6	4243107.75	2.70E-07	1.65YrCancerDerived_Inh_FAH3to16	2.70E-07
1805	ALL	559591.6	4243547.75	2.70E-07	1.65YrCancerDerived_Inh_FAH3to16	2.70E-07
792	ALL	559511.6	4243087.75	2.68E-07	1.65YrCancerDerived_Inh_FAH3to16	2.68E-07
1533	ALL	559651.6	4243427.75	2.67E-07	1.65YrCancerDerived_Inh_FAH3to16	2.67E-07
1893	ALL	559431.6	4243587.75	2.66E-07	1.65YrCancerDerived_Inh_FAH3to16	2.66E-07
1844	ALL	559411.6	4243567.75	2.64E-07	1.65YrCancerDerived_Inh_FAH3to16	2.64E-07
1946	ALL	559531.6	4243607.75	2.64E-07	1.65YrCancerDerived_Inh_FAH3to16	2.64E-07
1670	ALL	559631.6	4243487.75	2.62E-07	1.65YrCancerDerived_Inh_FAH3to16	2.62E-07
1703	ALL	559371.6	4243507.75	2.62E-07	1.65YrCancerDerived_Inh_FAH3to16	2.62E-07
1352	ALL	559651.6	4243347.75	2.61E-07	1.65YrCancerDerived_Inh_FAH3to16	2.61E-07
1471	ALL	559331.6	4243407.75	2.59E-07	1.65YrCancerDerived_Inh_FAH3to16	2.59E-07
1942	ALL	559451.6	4243607.75	2.58E-07	1.65YrCancerDerived_Inh_FAH3to16	2.58E-07
1761	ALL	559611.6	4243527.75	2.58E-07	1.65YrCancerDerived_Inh_FAH3to16	2.58E-07
1610	ALL	559351.6	4243467.75	2.54E-07	1.65YrCancerDerived_Inh_FAH3to16	2.54E-07
1795	ALL	559391.6	4243547.75	2.54E-07	1.65YrCancerDerived_Inh_FAH3to16	2.54E-07
1579	ALL	559651.6	4243447.75	2.53E-07	1.65YrCancerDerived_Inh_FAH3to16	2.53E-07
838	ALL	559531.6	4243107.75	2.52E-07	1.65YrCancerDerived_Inh_FAH3to16	2.52E-07
1900	ALL	559571.6	4243587.75	2.50E-07	1.65YrCancerDerived_Inh_FAH3to16	2.50E-07
700	ALL	559491.6	4243047.75	2.50E-07	1.65YrCancerDerived_Inh_FAH3to16	2.50E-07
1992	ALL	559491.6	4243627.75	2.49E-07	1.65YrCancerDerived_Inh_FAH3to16	2.49E-07
1947	ALL	559551.6	4243607.75	2.48E-07	1.65YrCancerDerived_Inh_FAH3to16	2.48E-07
1993	ALL	559511.6	4243627.75	2.47E-07	1.65YrCancerDerived_Inh_FAH3to16	2.47E-07
1853	ALL	559591.6	4243567.75	2.45E-07	1.65YrCancerDerived_Inh_FAH3to16	2.45E-07
1991	ALL	559471.6	4243627.75	2.44E-07	1.65YrCancerDerived_Inh_FAH3to16	2.44E-07
974	ALL	559571.6	4243167.75	2.43E-07	1.65YrCancerDerived_Inh_FAH3to16	2.43E-07
1223	ALL	559631.6	4243287.75	2.42E-07	1.65YrCancerDerived_Inh_FAH3to16	2.42E-07
967	ALL	559311.6	4243167.75	2.40E-07	1.65YrCancerDerived_Inh_FAH3to16	2.40E-07
1716	ALL	559631.6	4243507.75	2.39E-07	1.65YrCancerDerived_Inh_FAH3to16	2.39E-07
1941	ALL	559431.6	4243607.75	2.39E-07	1.65YrCancerDerived_Inh_FAH3to16	2.39E-07
878	ALL	559331.6	4243127.75	2.39E-07	1.65YrCancerDerived_Inh_FAH3to16	2.39E-07
1994	ALL	559531.6	4243627.75	2.39E-07	1.65YrCancerDerived_Inh_FAH3to16	2.39E-07
1892	ALL	559411.6	4243587.75	2.38E-07	1.65YrCancerDerived_Inh_FAH3to16	2.38E-07

1625	ALL	559651.6	4243467.75	2.38E-07	1.65YrCancerDerived_Inh_FAH3to16	2.38E-07
1065	ALL	559591.6	4243207.75	2.37E-07	1.65YrCancerDerived_Inh_FAH3to16	2.37E-07
1308	ALL	559651.6	4243327.75	2.37E-07	1.65YrCancerDerived_Inh_FAH3to16	2.37E-07
1517	ALL	559331.6	4243427.75	2.37E-07	1.65YrCancerDerived_Inh_FAH3to16	2.37E-07
1806	ALL	559611.6	4243547.75	2.36E-07	1.65YrCancerDerived_Inh_FAH3to16	2.36E-07
744	ALL	559371.6	4243067.75	2.36E-07	1.65YrCancerDerived_Inh_FAH3to16	2.36E-07
1100	ALL	559291.6	4243227.75	2.35E-07	1.65YrCancerDerived_Inh_FAH3to16	2.35E-07
1749	ALL	559371.6	4243527.75	2.34E-07	1.65YrCancerDerived_Inh_FAH3to16	2.34E-07
1990	ALL	559451.6	4243627.75	2.33E-07	1.65YrCancerDerived_Inh_FAH3to16	2.33E-07
699	ALL	559391.6	4243047.75	2.31E-07	1.65YrCancerDerived_Inh_FAH3to16	2.31E-07
884	ALL	559551.6	4243127.75	2.31E-07	1.65YrCancerDerived_Inh_FAH3to16	2.31E-07
1148	ALL	559611.6	4243247.75	2.30E-07	1.65YrCancerDerived_Inh_FAH3to16	2.30E-07
1656	ALL	559351.6	4243487.75	2.28E-07	1.65YrCancerDerived_Inh_FAH3to16	2.28E-07
1843	ALL	559391.6	4243567.75	2.28E-07	1.65YrCancerDerived_Inh_FAH3to16	2.28E-07
1948	ALL	559571.6	4243607.75	2.28E-07	1.65YrCancerDerived_Inh_FAH3to16	2.28E-07
789	ALL	559351.6	4243087.75	2.26E-07	1.65YrCancerDerived_Inh_FAH3to16	2.26E-07
1995	ALL	559551.6	4243627.75	2.25E-07	1.65YrCancerDerived_Inh_FAH3to16	2.25E-07
2039	ALL	559491.6	4243647.75	2.25E-07	1.65YrCancerDerived_Inh_FAH3to16	2.25E-07
747	ALL	559511.6	4243067.75	2.24E-07	1.65YrCancerDerived_Inh_FAH3to16	2.24E-07
2040	ALL	559511.6	4243647.75	2.23E-07	1.65YrCancerDerived_Inh_FAH3to16	2.23E-07
1901	ALL	559591.6	4243587.75	2.23E-07	1.65YrCancerDerived_Inh_FAH3to16	2.23E-07
1762	ALL	559631.6	4243527.75	2.22E-07	1.65YrCancerDerived_Inh_FAH3to16	2.22E-07
1671	ALL	559651.6	4243487.75	2.21E-07	1.65YrCancerDerived_Inh_FAH3to16	2.21E-07
2038	ALL	559471.6	4243647.75	2.20E-07	1.65YrCancerDerived_Inh_FAH3to16	2.20E-07
1488	ALL	559671.6	4243407.75	2.19E-07	1.65YrCancerDerived_Inh_FAH3to16	2.19E-07
1055	ALL	559291.6	4243207.75	2.19E-07	1.65YrCancerDerived_Inh_FAH3to16	2.19E-07
1442	ALL	559671.6	4243387.75	2.17E-07	1.65YrCancerDerived_Inh_FAH3to16	2.17E-07
2041	ALL	559531.6	4243647.75	2.17E-07	1.65YrCancerDerived_Inh_FAH3to16	2.17E-07
1534	ALL	559671.6	4243427.75	2.16E-07	1.65YrCancerDerived_Inh_FAH3to16	2.16E-07
1989	ALL	559431.6	4243627.75	2.16E-07	1.65YrCancerDerived_Inh_FAH3to16	2.16E-07
1854	ALL	559611.6	4243567.75	2.15E-07	1.65YrCancerDerived_Inh_FAH3to16	2.15E-07
654	ALL	559411.6	4243027.75	2.15E-07	1.65YrCancerDerived_Inh_FAH3to16	2.15E-07
1940	ALL	559411.6	4243607.75	2.15E-07	1.65YrCancerDerived_Inh_FAH3to16	2.15E-07
1794	ALL	559371.6	4243547.75	2.11E-07	1.65YrCancerDerived_Inh_FAH3to16	2.11E-07
2037	ALL	559451.6	4243647.75	2.10E-07	1.65YrCancerDerived_Inh_FAH3to16	2.10E-07
1563	ALL	559331.6	4243447.75	2.10E-07	1.65YrCancerDerived_Inh_FAH3to16	2.10E-07
1397	ALL	559671.6	4243367.75	2.09E-07	1.65YrCancerDerived_Inh_FAH3to16	2.09E-07
1580	ALL	559671.6	4243447.75	2.09E-07	1.65YrCancerDerived_Inh_FAH3to16	2.09E-07
1265	ALL	559651.6	4243307.75	2.08E-07	1.65YrCancerDerived_Inh_FAH3to16	2.08E-07
793	ALL	559531.6	4243087.75	2.08E-07	1.65YrCancerDerived_Inh_FAH3to16	2.08E-07
1996	ALL	559571.6	4243627.75	2.08E-07	1.65YrCancerDerived_Inh_FAH3to16	2.08E-07
930	ALL	559571.6	4243147.75	2.07E-07	1.65YrCancerDerived_Inh_FAH3to16	2.07E-07
1891	ALL	559391.6	4243587.75	2.06E-07	1.65YrCancerDerived_Inh_FAH3to16	2.06E-07
1717	ALL	559651.6	4243507.75	2.06E-07	1.65YrCancerDerived_Inh_FAH3to16	2.06E-07
1949	ALL	559591.6	4243607.75	2.06E-07	1.65YrCancerDerived_Inh_FAH3to16	2.06E-07
1702	ALL	559351.6	4243507.75	2.06E-07	1.65YrCancerDerived_Inh_FAH3to16	2.06E-07
1020	ALL	559591.6	4243187.75	2.05E-07	1.65YrCancerDerived_Inh_FAH3to16	2.05E-07
922	ALL	559311.6	4243147.75	2.05E-07	1.65YrCancerDerived_Inh_FAH3to16	2.05E-07
2042	ALL	559551.6	4243647.75	2.05E-07	1.65YrCancerDerived_Inh_FAH3to16	2.05E-07
1807	ALL	559631.6	4243547.75	2.05E-07	1.65YrCancerDerived_Inh_FAH3to16	2.05E-07
833	ALL	559331.6	4243107.75	2.05E-07	1.65YrCancerDerived_Inh_FAH3to16	2.05E-07
2087	ALL	559491.6	4243667.75	2.04E-07	1.65YrCancerDerived_Inh_FAH3to16	2.04E-07
2088	ALL	559511.6	4243667.75	2.03E-07	1.65YrCancerDerived_Inh_FAH3to16	2.03E-07
1424	ALL	559311.6	4243387.75	2.03E-07	1.65YrCancerDerived_Inh_FAH3to16	2.03E-07
1184	ALL	559631.6	4243267.75	2.01E-07	1.65YrCancerDerived_Inh_FAH3to16	2.01E-07
2086	ALL	559471.6	4243667.75	2.00E-07	1.65YrCancerDerived_Inh_FAH3to16	2.00E-07
1010	ALL	559291.6	4243187.75	1.99E-07	1.65YrCancerDerived_Inh_FAH3to16	1.99E-07
1626	ALL	559671.6	4243467.75	1.99E-07	1.65YrCancerDerived_Inh_FAH3to16	1.99E-07
2089	ALL	559531.6	4243667.75	1.97E-07	1.65YrCancerDerived_Inh_FAH3to16	1.97E-07
1902	ALL	559611.6	4243587.75	1.97E-07	1.65YrCancerDerived_Inh_FAH3to16	1.97E-07
1109	ALL	559611.6	4243227.75	1.97E-07	1.65YrCancerDerived_Inh_FAH3to16	1.97E-07
698	ALL	559371.6	4243047.75	1.96E-07	1.65YrCancerDerived_Inh_FAH3to16	1.96E-07
1353	ALL	559671.6	4243347.75	1.96E-07	1.65YrCancerDerived_Inh_FAH3to16	1.96E-07
2036	ALL	559431.6	4243647.75	1.96E-07	1.65YrCancerDerived_Inh_FAH3to16	1.96E-07
701	ALL	559511.6	4243047.75	1.95E-07	1.65YrCancerDerived_Inh_FAH3to16	1.95E-07
1988	ALL	559411.6	4243627.75	1.95E-07	1.65YrCancerDerived_Inh_FAH3to16	1.95E-07
839	ALL	559551.6	4243107.75	1.93E-07	1.65YrCancerDerived_Inh_FAH3to16	1.93E-07
1842	ALL	559371.6	4243567.75	1.91E-07	1.65YrCancerDerived_Inh_FAH3to16	1.91E-07
1763	ALL	559651.6	4243527.75	1.91E-07	1.65YrCancerDerived_Inh_FAH3to16	1.91E-07
743	ALL	559351.6	4243067.75	1.91E-07	1.65YrCancerDerived_Inh_FAH3to16	1.91E-07
2085	ALL	559451.6	4243667.75	1.91E-07	1.65YrCancerDerived_Inh_FAH3to16	1.91E-07
653	ALL	559391.6	4243027.75	1.91E-07	1.65YrCancerDerived_Inh_FAH3to16	1.91E-07
2043	ALL	559571.6	4243647.75	1.90E-07	1.65YrCancerDerived_Inh_FAH3to16	1.90E-07
1609	ALL	559331.6	4243467.75	1.89E-07	1.65YrCancerDerived_Inh_FAH3to16	1.89E-07

1997	ALL	559591.6	4243627.75	1.89E-07	1.65YrCancerDerived_Inh_FAH3to16	1.89E-07
1672	ALL	559671.6	4243487.75	1.88E-07	1.65YrCancerDerived_Inh_FAH3to16	1.88E-07
1855	ALL	559631.6	4243567.75	1.88E-07	1.65YrCancerDerived_Inh_FAH3to16	1.88E-07
2090	ALL	559551.6	4243667.75	1.88E-07	1.65YrCancerDerived_Inh_FAH3to16	1.88E-07
1939	ALL	559391.6	4243607.75	1.88E-07	1.65YrCancerDerived_Inh_FAH3to16	1.88E-07
1748	ALL	559351.6	4243527.75	1.87E-07	1.65YrCancerDerived_Inh_FAH3to16	1.87E-07
2135	ALL	559491.6	4243687.75	1.86E-07	1.65YrCancerDerived_Inh_FAH3to16	1.86E-07
2136	ALL	559511.6	4243687.75	1.85E-07	1.65YrCancerDerived_Inh_FAH3to16	1.85E-07
1470	ALL	559311.6	4243407.75	1.84E-07	1.65YrCancerDerived_Inh_FAH3to16	1.84E-07
1950	ALL	559611.6	4243607.75	1.83E-07	1.65YrCancerDerived_Inh_FAH3to16	1.83E-07
2134	ALL	559471.6	4243687.75	1.82E-07	1.65YrCancerDerived_Inh_FAH3to16	1.82E-07
2137	ALL	559531.6	4243687.75	1.81E-07	1.65YrCancerDerived_Inh_FAH3to16	1.81E-07
975	ALL	559591.6	4243167.75	1.79E-07	1.65YrCancerDerived_Inh_FAH3to16	1.79E-07
1224	ALL	559651.6	4243287.75	1.78E-07	1.65YrCancerDerived_Inh_FAH3to16	1.78E-07
966	ALL	559291.6	4243167.75	1.78E-07	1.65YrCancerDerived_Inh_FAH3to16	1.78E-07
2084	ALL	559431.6	4243667.75	1.78E-07	1.65YrCancerDerived_Inh_FAH3to16	1.78E-07
877	ALL	559311.6	4243127.75	1.78E-07	1.65YrCancerDerived_Inh_FAH3to16	1.78E-07
1309	ALL	559671.6	4243327.75	1.78E-07	1.65YrCancerDerived_Inh_FAH3to16	1.78E-07
2035	ALL	559411.6	4243647.75	1.77E-07	1.65YrCancerDerived_Inh_FAH3to16	1.77E-07
1808	ALL	559651.6	4243547.75	1.77E-07	1.65YrCancerDerived_Inh_FAH3to16	1.77E-07
1718	ALL	559671.6	4243507.75	1.77E-07	1.65YrCancerDerived_Inh_FAH3to16	1.77E-07
788	ALL	559331.6	4243087.75	1.77E-07	1.65YrCancerDerived_Inh_FAH3to16	1.77E-07
885	ALL	559571.6	4243127.75	1.77E-07	1.65YrCancerDerived_Inh_FAH3to16	1.77E-07
609	ALL	559411.6	4243007.75	1.76E-07	1.65YrCancerDerived_Inh_FAH3to16	1.76E-07
748	ALL	559531.6	4243067.75	1.76E-07	1.65YrCancerDerived_Inh_FAH3to16	1.76E-07
1535	ALL	559691.6	4243427.75	1.76E-07	1.65YrCancerDerived_Inh_FAH3to16	1.76E-07
1489	ALL	559691.6	4243407.75	1.76E-07	1.65YrCancerDerived_Inh_FAH3to16	1.76E-07
2091	ALL	559571.6	4243667.75	1.75E-07	1.65YrCancerDerived_Inh_FAH3to16	1.75E-07
1890	ALL	559371.6	4243587.75	1.75E-07	1.65YrCancerDerived_Inh_FAH3to16	1.75E-07
2133	ALL	559451.6	4243687.75	1.74E-07	1.65YrCancerDerived_Inh_FAH3to16	1.74E-07
2044	ALL	559591.6	4243647.75	1.74E-07	1.65YrCancerDerived_Inh_FAH3to16	1.74E-07
1903	ALL	559631.6	4243587.75	1.74E-07	1.65YrCancerDerived_Inh_FAH3to16	1.74E-07
655	ALL	559511.6	4243027.75	1.73E-07	1.65YrCancerDerived_Inh_FAH3to16	1.73E-07
1581	ALL	559691.6	4243447.75	1.73E-07	1.65YrCancerDerived_Inh_FAH3to16	1.73E-07
1655	ALL	559331.6	4243487.75	1.72E-07	1.65YrCancerDerived_Inh_FAH3to16	1.72E-07
2138	ALL	559551.6	4243687.75	1.72E-07	1.65YrCancerDerived_Inh_FAH3to16	1.72E-07
1443	ALL	559691.6	4243387.75	1.71E-07	1.65YrCancerDerived_Inh_FAH3to16	1.71E-07
1066	ALL	559611.6	4243207.75	1.71E-07	1.65YrCancerDerived_Inh_FAH3to16	1.71E-07
1987	ALL	559391.6	4243627.75	1.71E-07	1.65YrCancerDerived_Inh_FAH3to16	1.71E-07
1793	ALL	559351.6	4243547.75	1.71E-07	1.65YrCancerDerived_Inh_FAH3to16	1.71E-07
1516	ALL	559311.6	4243427.75	1.71E-07	1.65YrCancerDerived_Inh_FAH3to16	1.71E-07
1149	ALL	559631.6	4243247.75	1.70E-07	1.65YrCancerDerived_Inh_FAH3to16	1.70E-07
2183	ALL	559491.6	4243707.75	1.70E-07	1.65YrCancerDerived_Inh_FAH3to16	1.70E-07
2184	ALL	559511.6	4243707.75	1.70E-07	1.65YrCancerDerived_Inh_FAH3to16	1.70E-07
1998	ALL	559611.6	4243627.75	1.70E-07	1.65YrCancerDerived_Inh_FAH3to16	1.70E-07
1142	ALL	559271.6	4243247.75	1.69E-07	1.65YrCancerDerived_Inh_FAH3to16	1.69E-07
1627	ALL	559691.6	4243467.75	1.68E-07	1.65YrCancerDerived_Inh_FAH3to16	1.68E-07
1099	ALL	559271.6	4243227.75	1.67E-07	1.65YrCancerDerived_Inh_FAH3to16	1.67E-07
2182	ALL	559471.6	4243707.75	1.67E-07	1.65YrCancerDerived_Inh_FAH3to16	1.67E-07
2185	ALL	559531.6	4243707.75	1.66E-07	1.65YrCancerDerived_Inh_FAH3to16	1.66E-07
1764	ALL	559671.6	4243527.75	1.66E-07	1.65YrCancerDerived_Inh_FAH3to16	1.66E-07
652	ALL	559371.6	4243027.75	1.65E-07	1.65YrCancerDerived_Inh_FAH3to16	1.65E-07
1856	ALL	559651.6	4243567.75	1.65E-07	1.65YrCancerDerived_Inh_FAH3to16	1.65E-07
794	ALL	559551.6	4243087.75	1.64E-07	1.65YrCancerDerived_Inh_FAH3to16	1.64E-07
697	ALL	559351.6	4243047.75	1.64E-07	1.65YrCancerDerived_Inh_FAH3to16	1.64E-07
1398	ALL	559691.6	4243367.75	1.63E-07	1.65YrCancerDerived_Inh_FAH3to16	1.63E-07
2132	ALL	559431.6	4243687.75	1.63E-07	1.65YrCancerDerived_Inh_FAH3to16	1.63E-07
2083	ALL	559411.6	4243667.75	1.62E-07	1.65YrCancerDerived_Inh_FAH3to16	1.62E-07
2139	ALL	559571.6	4243687.75	1.62E-07	1.65YrCancerDerived_Inh_FAH3to16	1.62E-07
1951	ALL	559631.6	4243607.75	1.62E-07	1.65YrCancerDerived_Inh_FAH3to16	1.62E-07
2092	ALL	559591.6	4243667.75	1.61E-07	1.65YrCancerDerived_Inh_FAH3to16	1.61E-07
1673	ALL	559691.6	4243487.75	1.61E-07	1.65YrCancerDerived_Inh_FAH3to16	1.61E-07
1054	ALL	559271.6	4243207.75	1.61E-07	1.65YrCancerDerived_Inh_FAH3to16	1.61E-07
1938	ALL	559371.6	4243607.75	1.60E-07	1.65YrCancerDerived_Inh_FAH3to16	1.60E-07
2181	ALL	559451.6	4243707.75	1.60E-07	1.65YrCancerDerived_Inh_FAH3to16	1.60E-07
608	ALL	559391.6	4243007.75	1.59E-07	1.65YrCancerDerived_Inh_FAH3to16	1.59E-07
2186	ALL	559551.6	4243707.75	1.59E-07	1.65YrCancerDerived_Inh_FAH3to16	1.59E-07
1701	ALL	559331.6	4243507.75	1.59E-07	1.65YrCancerDerived_Inh_FAH3to16	1.59E-07
1266	ALL	559671.6	4243307.75	1.57E-07	1.65YrCancerDerived_Inh_FAH3to16	1.57E-07
2034	ALL	559391.6	4243647.75	1.57E-07	1.65YrCancerDerived_Inh_FAH3to16	1.57E-07
2045	ALL	559611.6	4243647.75	1.57E-07	1.65YrCancerDerived_Inh_FAH3to16	1.57E-07
2231	ALL	559491.6	4243727.75	1.56E-07	1.65YrCancerDerived_Inh_FAH3to16	1.56E-07
832	ALL	559311.6	4243107.75	1.56E-07	1.65YrCancerDerived_Inh_FAH3to16	1.56E-07
2232	ALL	559511.6	4243727.75	1.56E-07	1.65YrCancerDerived_Inh_FAH3to16	1.56E-07

1841	ALL	559351.6	4243567.75	1.56E-07	1.65YrCancerDerived_Inh_FAH3to16	1.56E-07
565	ALL	559431.6	4242987.75	1.56E-07	1.65YrCancerDerived_Inh_FAH3to16	1.56E-07
931	ALL	559591.6	4243147.75	1.56E-07	1.65YrCancerDerived_Inh_FAH3to16	1.56E-07
921	ALL	559291.6	4243147.75	1.56E-07	1.65YrCancerDerived_Inh_FAH3to16	1.56E-07
1562	ALL	559311.6	4243447.75	1.55E-07	1.65YrCancerDerived_Inh_FAH3to16	1.55E-07
1809	ALL	559671.6	4243547.75	1.54E-07	1.65YrCancerDerived_Inh_FAH3to16	1.54E-07
702	ALL	559531.6	4243047.75	1.53E-07	1.65YrCancerDerived_Inh_FAH3to16	1.53E-07
742	ALL	559331.6	4243067.75	1.53E-07	1.65YrCancerDerived_Inh_FAH3to16	1.53E-07
1904	ALL	559651.6	4243587.75	1.53E-07	1.65YrCancerDerived_Inh_FAH3to16	1.53E-07
2230	ALL	559471.6	4243727.75	1.53E-07	1.65YrCancerDerived_Inh_FAH3to16	1.53E-07
2233	ALL	559531.6	4243727.75	1.53E-07	1.65YrCancerDerived_Inh_FAH3to16	1.53E-07
1185	ALL	559651.6	4243267.75	1.52E-07	1.65YrCancerDerived_Inh_FAH3to16	1.52E-07
1719	ALL	559691.6	4243507.75	1.52E-07	1.65YrCancerDerived_Inh_FAH3to16	1.52E-07
1354	ALL	559691.6	4243347.75	1.52E-07	1.65YrCancerDerived_Inh_FAH3to16	1.52E-07
1999	ALL	559631.6	4243627.75	1.52E-07	1.65YrCancerDerived_Inh_FAH3to16	1.52E-07
840	ALL	559571.6	4243107.75	1.51E-07	1.65YrCancerDerived_Inh_FAH3to16	1.51E-07
1021	ALL	559611.6	4243187.75	1.51E-07	1.65YrCancerDerived_Inh_FAH3to16	1.51E-07
1009	ALL	559271.6	4243187.75	1.50E-07	1.65YrCancerDerived_Inh_FAH3to16	1.50E-07
2180	ALL	559431.6	4243707.75	1.50E-07	1.65YrCancerDerived_Inh_FAH3to16	1.50E-07
1423	ALL	559291.6	4243387.75	1.50E-07	1.65YrCancerDerived_Inh_FAH3to16	1.50E-07
2187	ALL	559571.6	4243707.75	1.50E-07	1.65YrCancerDerived_Inh_FAH3to16	1.50E-07
2140	ALL	559591.6	4243687.75	1.49E-07	1.65YrCancerDerived_Inh_FAH3to16	1.49E-07
2131	ALL	559411.6	4243687.75	1.49E-07	1.65YrCancerDerived_Inh_FAH3to16	1.49E-07
564	ALL	559411.6	4242987.75	1.47E-07	1.65YrCancerDerived_Inh_FAH3to16	1.47E-07
1110	ALL	559631.6	4243227.75	1.47E-07	1.65YrCancerDerived_Inh_FAH3to16	1.47E-07
2234	ALL	559551.6	4243727.75	1.47E-07	1.65YrCancerDerived_Inh_FAH3to16	1.47E-07
1986	ALL	559371.6	4243627.75	1.47E-07	1.65YrCancerDerived_Inh_FAH3to16	1.47E-07
2229	ALL	559451.6	4243727.75	1.47E-07	1.65YrCancerDerived_Inh_FAH3to16	1.47E-07
1747	ALL	559331.6	4243527.75	1.46E-07	1.65YrCancerDerived_Inh_FAH3to16	1.46E-07
2093	ALL	559611.6	4243667.75	1.46E-07	1.65YrCancerDerived_Inh_FAH3to16	1.46E-07
1857	ALL	559671.6	4243567.75	1.45E-07	1.65YrCancerDerived_Inh_FAH3to16	1.45E-07
1536	ALL	559711.6	4243427.75	1.45E-07	1.65YrCancerDerived_Inh_FAH3to16	1.45E-07
1582	ALL	559711.6	4243447.75	1.44E-07	1.65YrCancerDerived_Inh_FAH3to16	1.44E-07
2082	ALL	559391.6	4243667.75	1.44E-07	1.65YrCancerDerived_Inh_FAH3to16	1.44E-07
1889	ALL	559351.6	4243587.75	1.44E-07	1.65YrCancerDerived_Inh_FAH3to16	1.44E-07
1765	ALL	559691.6	4243527.75	1.44E-07	1.65YrCancerDerived_Inh_FAH3to16	1.44E-07
1952	ALL	559651.6	4243607.75	1.44E-07	1.65YrCancerDerived_Inh_FAH3to16	1.44E-07
1490	ALL	559711.6	4243407.75	1.42E-07	1.65YrCancerDerived_Inh_FAH3to16	1.42E-07
1628	ALL	559711.6	4243467.75	1.42E-07	1.65YrCancerDerived_Inh_FAH3to16	1.42E-07
749	ALL	559551.6	4243067.75	1.42E-07	1.65YrCancerDerived_Inh_FAH3to16	1.42E-07
2046	ALL	559631.6	4243647.75	1.41E-07	1.65YrCancerDerived_Inh_FAH3to16	1.41E-07
651	ALL	559351.6	4243027.75	1.41E-07	1.65YrCancerDerived_Inh_FAH3to16	1.41E-07
607	ALL	559371.6	4243007.75	1.41E-07	1.65YrCancerDerived_Inh_FAH3to16	1.41E-07
1608	ALL	559311.6	4243467.75	1.41E-07	1.65YrCancerDerived_Inh_FAH3to16	1.41E-07
2188	ALL	559591.6	4243707.75	1.39E-07	1.65YrCancerDerived_Inh_FAH3to16	1.39E-07
2235	ALL	559571.6	4243727.75	1.39E-07	1.65YrCancerDerived_Inh_FAH3to16	1.39E-07
965	ALL	559271.6	4243167.75	1.39E-07	1.65YrCancerDerived_Inh_FAH3to16	1.39E-07
787	ALL	559311.6	4243087.75	1.38E-07	1.65YrCancerDerived_Inh_FAH3to16	1.38E-07
1674	ALL	559711.6	4243487.75	1.38E-07	1.65YrCancerDerived_Inh_FAH3to16	1.38E-07
2228	ALL	559431.6	4243727.75	1.38E-07	1.65YrCancerDerived_Inh_FAH3to16	1.38E-07
1310	ALL	559691.6	4243327.75	1.38E-07	1.65YrCancerDerived_Inh_FAH3to16	1.38E-07
1444	ALL	559711.6	4243387.75	1.37E-07	1.65YrCancerDerived_Inh_FAH3to16	1.37E-07
2179	ALL	559411.6	4243707.75	1.37E-07	1.65YrCancerDerived_Inh_FAH3to16	1.37E-07
876	ALL	559291.6	4243127.75	1.37E-07	1.65YrCancerDerived_Inh_FAH3to16	1.37E-07
1225	ALL	559671.6	4243287.75	1.37E-07	1.65YrCancerDerived_Inh_FAH3to16	1.37E-07
2141	ALL	559611.6	4243687.75	1.37E-07	1.65YrCancerDerived_Inh_FAH3to16	1.37E-07
1469	ALL	559291.6	4243407.75	1.36E-07	1.65YrCancerDerived_Inh_FAH3to16	1.36E-07
886	ALL	559591.6	4243127.75	1.36E-07	1.65YrCancerDerived_Inh_FAH3to16	1.36E-07
656	ALL	559531.6	4243027.75	1.36E-07	1.65YrCancerDerived_Inh_FAH3to16	1.36E-07
1905	ALL	559671.6	4243587.75	1.36E-07	1.65YrCancerDerived_Inh_FAH3to16	1.36E-07
563	ALL	559391.6	4242987.75	1.36E-07	1.65YrCancerDerived_Inh_FAH3to16	1.36E-07
1810	ALL	559691.6	4243547.75	1.36E-07	1.65YrCancerDerived_Inh_FAH3to16	1.36E-07
2033	ALL	559371.6	4243647.75	1.36E-07	1.65YrCancerDerived_Inh_FAH3to16	1.36E-07
1792	ALL	559331.6	4243547.75	1.35E-07	1.65YrCancerDerived_Inh_FAH3to16	1.35E-07
2000	ALL	559651.6	4243627.75	1.35E-07	1.65YrCancerDerived_Inh_FAH3to16	1.35E-07
696	ALL	559331.6	4243047.75	1.34E-07	1.65YrCancerDerived_Inh_FAH3to16	1.34E-07
976	ALL	559611.6	4243167.75	1.34E-07	1.65YrCancerDerived_Inh_FAH3to16	1.34E-07
1937	ALL	559351.6	4243607.75	1.33E-07	1.65YrCancerDerived_Inh_FAH3to16	1.33E-07
2130	ALL	559391.6	4243687.75	1.33E-07	1.65YrCancerDerived_Inh_FAH3to16	1.33E-07
2094	ALL	559631.6	4243667.75	1.32E-07	1.65YrCancerDerived_Inh_FAH3to16	1.32E-07
1720	ALL	559711.6	4243507.75	1.32E-07	1.65YrCancerDerived_Inh_FAH3to16	1.32E-07
520	ALL	559451.6	4242967.75	1.32E-07	1.65YrCancerDerived_Inh_FAH3to16	1.32E-07
795	ALL	559571.6	4243087.75	1.31E-07	1.65YrCancerDerived_Inh_FAH3to16	1.31E-07
1150	ALL	559651.6	4243247.75	1.31E-07	1.65YrCancerDerived_Inh_FAH3to16	1.31E-07

519	ALL	559431.6	4242967.75	1.31E-07	1.65YrCancerDerived_Inh_FAH3to16	1.31E-07
1399	ALL	559711.6	4243367.75	1.30E-07	1.65YrCancerDerived_Inh_FAH3to16	1.30E-07
2236	ALL	559591.6	4243727.75	1.30E-07	1.65YrCancerDerived_Inh_FAH3to16	1.30E-07
1654	ALL	559311.6	4243487.75	1.30E-07	1.65YrCancerDerived_Inh_FAH3to16	1.30E-07
1067	ALL	559631.6	4243207.75	1.30E-07	1.65YrCancerDerived_Inh_FAH3to16	1.30E-07
1858	ALL	559691.6	4243567.75	1.28E-07	1.65YrCancerDerived_Inh_FAH3to16	1.28E-07
1953	ALL	559671.6	4243607.75	1.28E-07	1.65YrCancerDerived_Inh_FAH3to16	1.28E-07
2189	ALL	559611.6	4243707.75	1.28E-07	1.65YrCancerDerived_Inh_FAH3to16	1.28E-07
2227	ALL	559411.6	4243727.75	1.27E-07	1.65YrCancerDerived_Inh_FAH3to16	1.27E-07
2047	ALL	559651.6	4243647.75	1.27E-07	1.65YrCancerDerived_Inh_FAH3to16	1.27E-07
1141	ALL	559251.6	4243247.75	1.26E-07	1.65YrCancerDerived_Inh_FAH3to16	1.26E-07
1098	ALL	559251.6	4243227.75	1.26E-07	1.65YrCancerDerived_Inh_FAH3to16	1.26E-07
1766	ALL	559711.6	4243527.75	1.26E-07	1.65YrCancerDerived_Inh_FAH3to16	1.26E-07
2081	ALL	559371.6	4243667.75	1.26E-07	1.65YrCancerDerived_Inh_FAH3to16	1.26E-07
518	ALL	559411.6	4242967.75	1.25E-07	1.65YrCancerDerived_Inh_FAH3to16	1.25E-07
1515	ALL	559291.6	4243427.75	1.25E-07	1.65YrCancerDerived_Inh_FAH3to16	1.25E-07
1840	ALL	559331.6	4243567.75	1.25E-07	1.65YrCancerDerived_Inh_FAH3to16	1.25E-07
703	ALL	559551.6	4243047.75	1.25E-07	1.65YrCancerDerived_Inh_FAH3to16	1.25E-07
2142	ALL	559631.6	4243687.75	1.24E-07	1.65YrCancerDerived_Inh_FAH3to16	1.24E-07
1180	ALL	559251.6	4243267.75	1.24E-07	1.65YrCancerDerived_Inh_FAH3to16	1.24E-07
1985	ALL	559351.6	4243627.75	1.23E-07	1.65YrCancerDerived_Inh_FAH3to16	1.23E-07
2178	ALL	559391.6	4243707.75	1.23E-07	1.65YrCancerDerived_Inh_FAH3to16	1.23E-07
920	ALL	559271.6	4243147.75	1.23E-07	1.65YrCancerDerived_Inh_FAH3to16	1.23E-07
1267	ALL	559691.6	4243307.75	1.23E-07	1.65YrCancerDerived_Inh_FAH3to16	1.23E-07
1053	ALL	559251.6	4243207.75	1.23E-07	1.65YrCancerDerived_Inh_FAH3to16	1.23E-07
741	ALL	559311.6	4243067.75	1.23E-07	1.65YrCancerDerived_Inh_FAH3to16	1.23E-07
606	ALL	559351.6	4243007.75	1.22E-07	1.65YrCancerDerived_Inh_FAH3to16	1.22E-07
562	ALL	559371.6	4242987.75	1.22E-07	1.65YrCancerDerived_Inh_FAH3to16	1.22E-07
831	ALL	559291.6	4243107.75	1.22E-07	1.65YrCancerDerived_Inh_FAH3to16	1.22E-07
1583	ALL	559731.6	4243447.75	1.21E-07	1.65YrCancerDerived_Inh_FAH3to16	1.21E-07
1906	ALL	559691.6	4243587.75	1.21E-07	1.65YrCancerDerived_Inh_FAH3to16	1.21E-07
610	ALL	559531.6	4243007.75	1.21E-07	1.65YrCancerDerived_Inh_FAH3to16	1.21E-07
1700	ALL	559311.6	4243507.75	1.21E-07	1.65YrCancerDerived_Inh_FAH3to16	1.21E-07
1355	ALL	559711.6	4243347.75	1.21E-07	1.65YrCancerDerived_Inh_FAH3to16	1.21E-07
2001	ALL	559671.6	4243627.75	1.20E-07	1.65YrCancerDerived_Inh_FAH3to16	1.20E-07
1629	ALL	559731.6	4243467.75	1.20E-07	1.65YrCancerDerived_Inh_FAH3to16	1.20E-07
1811	ALL	559711.6	4243547.75	1.20E-07	1.65YrCancerDerived_Inh_FAH3to16	1.20E-07
1537	ALL	559731.6	4243427.75	1.20E-07	1.65YrCancerDerived_Inh_FAH3to16	1.20E-07
2237	ALL	559611.6	4243727.75	1.20E-07	1.65YrCancerDerived_Inh_FAH3to16	1.20E-07
1215	ALL	559251.6	4243287.75	1.20E-07	1.65YrCancerDerived_Inh_FAH3to16	1.20E-07
841	ALL	559591.6	4243107.75	1.19E-07	1.65YrCancerDerived_Inh_FAH3to16	1.19E-07
932	ALL	559611.6	4243147.75	1.19E-07	1.65YrCancerDerived_Inh_FAH3to16	1.19E-07
2095	ALL	559651.6	4243667.75	1.19E-07	1.65YrCancerDerived_Inh_FAH3to16	1.19E-07
1186	ALL	559671.6	4243267.75	1.19E-07	1.65YrCancerDerived_Inh_FAH3to16	1.19E-07
1675	ALL	559731.6	4243487.75	1.19E-07	1.65YrCancerDerived_Inh_FAH3to16	1.19E-07
650	ALL	559331.6	4243027.75	1.18E-07	1.65YrCancerDerived_Inh_FAH3to16	1.18E-07
1888	ALL	559331.6	4243587.75	1.17E-07	1.65YrCancerDerived_Inh_FAH3to16	1.17E-07
517	ALL	559391.6	4242967.75	1.17E-07	1.65YrCancerDerived_Inh_FAH3to16	1.17E-07
1008	ALL	559251.6	4243187.75	1.17E-07	1.65YrCancerDerived_Inh_FAH3to16	1.17E-07
1491	ALL	559731.6	4243407.75	1.17E-07	1.65YrCancerDerived_Inh_FAH3to16	1.17E-07
2129	ALL	559371.6	4243687.75	1.17E-07	1.65YrCancerDerived_Inh_FAH3to16	1.17E-07
2190	ALL	559631.6	4243707.75	1.17E-07	1.65YrCancerDerived_Inh_FAH3to16	1.17E-07
1561	ALL	559291.6	4243447.75	1.16E-07	1.65YrCancerDerived_Inh_FAH3to16	1.16E-07
1721	ALL	559731.6	4243507.75	1.15E-07	1.65YrCancerDerived_Inh_FAH3to16	1.15E-07
750	ALL	559571.6	4243067.75	1.15E-07	1.65YrCancerDerived_Inh_FAH3to16	1.15E-07
1022	ALL	559631.6	4243187.75	1.15E-07	1.65YrCancerDerived_Inh_FAH3to16	1.15E-07
2032	ALL	559351.6	4243647.75	1.15E-07	1.65YrCancerDerived_Inh_FAH3to16	1.15E-07
1111	ALL	559651.6	4243227.75	1.15E-07	1.65YrCancerDerived_Inh_FAH3to16	1.15E-07
2226	ALL	559391.6	4243727.75	1.14E-07	1.65YrCancerDerived_Inh_FAH3to16	1.14E-07
1859	ALL	559711.6	4243567.75	1.14E-07	1.65YrCancerDerived_Inh_FAH3to16	1.14E-07
1954	ALL	559691.6	4243607.75	1.14E-07	1.65YrCancerDerived_Inh_FAH3to16	1.14E-07
2048	ALL	559671.6	4243647.75	1.13E-07	1.65YrCancerDerived_Inh_FAH3to16	1.13E-07
1746	ALL	559311.6	4243527.75	1.13E-07	1.65YrCancerDerived_Inh_FAH3to16	1.13E-07
1468	ALL	559271.6	4243407.75	1.12E-07	1.65YrCancerDerived_Inh_FAH3to16	1.12E-07
1445	ALL	559731.6	4243387.75	1.12E-07	1.65YrCancerDerived_Inh_FAH3to16	1.12E-07
2143	ALL	559651.6	4243687.75	1.12E-07	1.65YrCancerDerived_Inh_FAH3to16	1.12E-07
475	ALL	559451.6	4242947.75	1.12E-07	1.65YrCancerDerived_Inh_FAH3to16	1.12E-07
474	ALL	559431.6	4242947.75	1.12E-07	1.65YrCancerDerived_Inh_FAH3to16	1.12E-07
1767	ALL	559731.6	4243527.75	1.11E-07	1.65YrCancerDerived_Inh_FAH3to16	1.11E-07
657	ALL	559551.6	4243027.75	1.11E-07	1.65YrCancerDerived_Inh_FAH3to16	1.11E-07
964	ALL	559251.6	4243167.75	1.10E-07	1.65YrCancerDerived_Inh_FAH3to16	1.10E-07
1311	ALL	559711.6	4243327.75	1.10E-07	1.65YrCancerDerived_Inh_FAH3to16	1.10E-07
875	ALL	559271.6	4243127.75	1.10E-07	1.65YrCancerDerived_Inh_FAH3to16	1.10E-07
695	ALL	559311.6	4243047.75	1.10E-07	1.65YrCancerDerived_Inh_FAH3to16	1.10E-07

2238	ALL	559631.6	4243727.75	1.09E-07	1.65YrCancerDerived_Inh_FAH3to16	1.09E-07
786	ALL	559291.6	4243087.75	1.09E-07	1.65YrCancerDerived_Inh_FAH3to16	1.09E-07
1936	ALL	559331.6	4243607.75	1.09E-07	1.65YrCancerDerived_Inh_FAH3to16	1.09E-07
2177	ALL	559371.6	4243707.75	1.08E-07	1.65YrCancerDerived_Inh_FAH3to16	1.08E-07
1226	ALL	559691.6	4243287.75	1.08E-07	1.65YrCancerDerived_Inh_FAH3to16	1.08E-07
1607	ALL	559291.6	4243467.75	1.08E-07	1.65YrCancerDerived_Inh_FAH3to16	1.08E-07
473	ALL	559411.6	4242947.75	1.08E-07	1.65YrCancerDerived_Inh_FAH3to16	1.08E-07
1907	ALL	559711.6	4243587.75	1.08E-07	1.65YrCancerDerived_Inh_FAH3to16	1.08E-07
2002	ALL	559691.6	4243627.75	1.08E-07	1.65YrCancerDerived_Inh_FAH3to16	1.08E-07
561	ALL	559351.6	4242987.75	1.07E-07	1.65YrCancerDerived_Inh_FAH3to16	1.07E-07
2080	ALL	559351.6	4243667.75	1.07E-07	1.65YrCancerDerived_Inh_FAH3to16	1.07E-07
516	ALL	559371.6	4242967.75	1.07E-07	1.65YrCancerDerived_Inh_FAH3to16	1.07E-07
2096	ALL	559671.6	4243667.75	1.07E-07	1.65YrCancerDerived_Inh_FAH3to16	1.07E-07
1812	ALL	559731.6	4243547.75	1.06E-07	1.65YrCancerDerived_Inh_FAH3to16	1.06E-07
1791	ALL	559311.6	4243547.75	1.06E-07	1.65YrCancerDerived_Inh_FAH3to16	1.06E-07
887	ALL	559611.6	4243127.75	1.06E-07	1.65YrCancerDerived_Inh_FAH3to16	1.06E-07
796	ALL	559591.6	4243087.75	1.05E-07	1.65YrCancerDerived_Inh_FAH3to16	1.05E-07
1400	ALL	559731.6	4243367.75	1.05E-07	1.65YrCancerDerived_Inh_FAH3to16	1.05E-07
2191	ALL	559651.6	4243707.75	1.05E-07	1.65YrCancerDerived_Inh_FAH3to16	1.05E-07
605	ALL	559331.6	4243007.75	1.04E-07	1.65YrCancerDerived_Inh_FAH3to16	1.04E-07
1151	ALL	559671.6	4243247.75	1.04E-07	1.65YrCancerDerived_Inh_FAH3to16	1.04E-07
977	ALL	559631.6	4243167.75	1.03E-07	1.65YrCancerDerived_Inh_FAH3to16	1.03E-07
1630	ALL	559751.6	4243467.75	1.03E-07	1.65YrCancerDerived_Inh_FAH3to16	1.03E-07
1584	ALL	559751.6	4243447.75	1.02E-07	1.65YrCancerDerived_Inh_FAH3to16	1.02E-07
704	ALL	559571.6	4243047.75	1.02E-07	1.65YrCancerDerived_Inh_FAH3to16	1.02E-07
472	ALL	559391.6	4242947.75	1.02E-07	1.65YrCancerDerived_Inh_FAH3to16	1.02E-07
1676	ALL	559751.6	4243487.75	1.02E-07	1.65YrCancerDerived_Inh_FAH3to16	1.02E-07
1955	ALL	559711.6	4243607.75	1.02E-07	1.65YrCancerDerived_Inh_FAH3to16	1.02E-07
1984	ALL	559331.6	4243627.75	1.02E-07	1.65YrCancerDerived_Inh_FAH3to16	1.02E-07
1860	ALL	559731.6	4243567.75	1.02E-07	1.65YrCancerDerived_Inh_FAH3to16	1.02E-07
1068	ALL	559651.6	4243207.75	1.01E-07	1.65YrCancerDerived_Inh_FAH3to16	1.01E-07
2049	ALL	559691.6	4243647.75	1.01E-07	1.65YrCancerDerived_Inh_FAH3to16	1.01E-07
2225	ALL	559371.6	4243727.75	1.01E-07	1.65YrCancerDerived_Inh_FAH3to16	1.01E-07
2144	ALL	559671.6	4243687.75	1.01E-07	1.65YrCancerDerived_Inh_FAH3to16	1.01E-07
919	ALL	559251.6	4243147.75	1.01E-07	1.65YrCancerDerived_Inh_FAH3to16	1.01E-07
1653	ALL	559291.6	4243487.75	1.01E-07	1.65YrCancerDerived_Inh_FAH3to16	1.01E-07
1722	ALL	559751.6	4243507.75	1.00E-07	1.65YrCancerDerived_Inh_FAH3to16	1.00E-07
1538	ALL	559751.6	4243427.75	1.00E-07	1.65YrCancerDerived_Inh_FAH3to16	1.00E-07
1514	ALL	559271.6	4243427.75	1.00E-07	1.65YrCancerDerived_Inh_FAH3to16	1.00E-07
2128	ALL	559351.6	4243687.75	1.00E-07	1.65YrCancerDerived_Inh_FAH3to16	1.00E-07
1839	ALL	559311.6	4243567.75	9.94E-08	1.65YrCancerDerived_Inh_FAH3to16	9.94E-08
2239	ALL	559651.6	4243727.75	9.93E-08	1.65YrCancerDerived_Inh_FAH3to16	9.93E-08
611	ALL	559551.6	4243007.75	9.85E-08	1.65YrCancerDerived_Inh_FAH3to16	9.85E-08
1097	ALL	559231.6	4243227.75	9.85E-08	1.65YrCancerDerived_Inh_FAH3to16	9.85E-08
1268	ALL	559711.6	4243307.75	9.84E-08	1.65YrCancerDerived_Inh_FAH3to16	9.84E-08
740	ALL	559291.6	4243067.75	9.83E-08	1.65YrCancerDerived_Inh_FAH3to16	9.83E-08
1140	ALL	559231.6	4243247.75	9.81E-08	1.65YrCancerDerived_Inh_FAH3to16	9.81E-08
649	ALL	559311.6	4243027.75	9.76E-08	1.65YrCancerDerived_Inh_FAH3to16	9.76E-08
1768	ALL	559751.6	4243527.75	9.76E-08	1.65YrCancerDerived_Inh_FAH3to16	9.76E-08
1356	ALL	559731.6	4243347.75	9.76E-08	1.65YrCancerDerived_Inh_FAH3to16	9.76E-08
830	ALL	559271.6	4243107.75	9.76E-08	1.65YrCancerDerived_Inh_FAH3to16	9.76E-08
1052	ALL	559231.6	4243207.75	9.71E-08	1.65YrCancerDerived_Inh_FAH3to16	9.71E-08
1492	ALL	559751.6	4243407.75	9.70E-08	1.65YrCancerDerived_Inh_FAH3to16	9.70E-08
1908	ALL	559731.6	4243587.75	9.69E-08	1.65YrCancerDerived_Inh_FAH3to16	9.69E-08
429	ALL	559431.6	4242927.75	9.68E-08	1.65YrCancerDerived_Inh_FAH3to16	9.68E-08
430	ALL	559451.6	4242927.75	9.64E-08	1.65YrCancerDerived_Inh_FAH3to16	9.64E-08
2003	ALL	559711.6	4243627.75	9.64E-08	1.65YrCancerDerived_Inh_FAH3to16	9.64E-08
1179	ALL	559231.6	4243267.75	9.61E-08	1.65YrCancerDerived_Inh_FAH3to16	9.61E-08
2097	ALL	559691.6	4243667.75	9.59E-08	1.65YrCancerDerived_Inh_FAH3to16	9.59E-08
2031	ALL	559331.6	4243647.75	9.56E-08	1.65YrCancerDerived_Inh_FAH3to16	9.56E-08
515	ALL	559351.6	4242967.75	9.54E-08	1.65YrCancerDerived_Inh_FAH3to16	9.54E-08
1187	ALL	559691.6	4243267.75	9.53E-08	1.65YrCancerDerived_Inh_FAH3to16	9.53E-08
2192	ALL	559671.6	4243707.75	9.51E-08	1.65YrCancerDerived_Inh_FAH3to16	9.51E-08
842	ALL	559611.6	4243107.75	9.47E-08	1.65YrCancerDerived_Inh_FAH3to16	9.47E-08
1813	ALL	559751.6	4243547.75	9.46E-08	1.65YrCancerDerived_Inh_FAH3to16	9.46E-08
428	ALL	559411.6	4242927.75	9.45E-08	1.65YrCancerDerived_Inh_FAH3to16	9.45E-08
471	ALL	559371.6	4242947.75	9.43E-08	1.65YrCancerDerived_Inh_FAH3to16	9.43E-08
1887	ALL	559311.6	4243587.75	9.43E-08	1.65YrCancerDerived_Inh_FAH3to16	9.43E-08
751	ALL	559591.6	4243067.75	9.39E-08	1.65YrCancerDerived_Inh_FAH3to16	9.39E-08
1007	ALL	559231.6	4243187.75	9.39E-08	1.65YrCancerDerived_Inh_FAH3to16	9.39E-08
2176	ALL	559351.6	4243707.75	9.38E-08	1.65YrCancerDerived_Inh_FAH3to16	9.38E-08
431	ALL	559471.6	4242927.75	9.34E-08	1.65YrCancerDerived_Inh_FAH3to16	9.34E-08
1699	ALL	559291.6	4243507.75	9.33E-08	1.65YrCancerDerived_Inh_FAH3to16	9.33E-08
560	ALL	559331.6	4242987.75	9.31E-08	1.65YrCancerDerived_Inh_FAH3to16	9.31E-08

933	ALL	559631.6	4243147.75	9.28E-08	1.65YrCancerDerived_Inh_FAH3to16	9.28E-08
1214	ALL	559231.6	4243287.75	9.28E-08	1.65YrCancerDerived_Inh_FAH3to16	9.28E-08
1446	ALL	559751.6	4243387.75	9.24E-08	1.65YrCancerDerived_Inh_FAH3to16	9.24E-08
1956	ALL	559731.6	4243607.75	9.19E-08	1.65YrCancerDerived_Inh_FAH3to16	9.19E-08
1112	ALL	559671.6	4243227.75	9.16E-08	1.65YrCancerDerived_Inh_FAH3to16	9.16E-08
658	ALL	559571.6	4243027.75	9.16E-08	1.65YrCancerDerived_Inh_FAH3to16	9.16E-08
2050	ALL	559711.6	4243647.75	9.13E-08	1.65YrCancerDerived_Inh_FAH3to16	9.13E-08
1560	ALL	559271.6	4243447.75	9.11E-08	1.65YrCancerDerived_Inh_FAH3to16	9.11E-08
1861	ALL	559751.6	4243567.75	9.10E-08	1.65YrCancerDerived_Inh_FAH3to16	9.10E-08
1023	ALL	559651.6	4243187.75	9.08E-08	1.65YrCancerDerived_Inh_FAH3to16	9.08E-08
2145	ALL	559691.6	4243687.75	9.07E-08	1.65YrCancerDerived_Inh_FAH3to16	9.07E-08
874	ALL	559251.6	4243127.75	9.04E-08	1.65YrCancerDerived_Inh_FAH3to16	9.04E-08
2240	ALL	559671.6	4243727.75	9.01E-08	1.65YrCancerDerived_Inh_FAH3to16	9.01E-08
427	ALL	559391.6	4242927.75	9.01E-08	1.65YrCancerDerived_Inh_FAH3to16	9.01E-08
2079	ALL	559331.6	4243667.75	8.98E-08	1.65YrCancerDerived_Inh_FAH3to16	8.98E-08
1312	ALL	559731.6	4243327.75	8.92E-08	1.65YrCancerDerived_Inh_FAH3to16	8.92E-08
963	ALL	559231.6	4243167.75	8.91E-08	1.65YrCancerDerived_Inh_FAH3to16	8.91E-08
694	ALL	559291.6	4243047.75	8.88E-08	1.65YrCancerDerived_Inh_FAH3to16	8.88E-08
1935	ALL	559311.6	4243607.75	8.86E-08	1.65YrCancerDerived_Inh_FAH3to16	8.86E-08
1253	ALL	559231.6	4243307.75	8.85E-08	1.65YrCancerDerived_Inh_FAH3to16	8.85E-08
1677	ALL	559771.6	4243487.75	8.83E-08	1.65YrCancerDerived_Inh_FAH3to16	8.83E-08
1631	ALL	559771.6	4243467.75	8.82E-08	1.65YrCancerDerived_Inh_FAH3to16	8.82E-08
2224	ALL	559351.6	4243727.75	8.80E-08	1.65YrCancerDerived_Inh_FAH3to16	8.80E-08
566	ALL	559551.6	4242987.75	8.80E-08	1.65YrCancerDerived_Inh_FAH3to16	8.80E-08
604	ALL	559311.6	4243007.75	8.77E-08	1.65YrCancerDerived_Inh_FAH3to16	8.77E-08
1723	ALL	559771.6	4243507.75	8.77E-08	1.65YrCancerDerived_Inh_FAH3to16	8.77E-08
1227	ALL	559711.6	4243287.75	8.76E-08	1.65YrCancerDerived_Inh_FAH3to16	8.76E-08
1745	ALL	559291.6	4243527.75	8.75E-08	1.65YrCancerDerived_Inh_FAH3to16	8.75E-08
785	ALL	559271.6	4243087.75	8.74E-08	1.65YrCancerDerived_Inh_FAH3to16	8.74E-08
2004	ALL	559731.6	4243627.75	8.72E-08	1.65YrCancerDerived_Inh_FAH3to16	8.72E-08
1909	ALL	559751.6	4243587.75	8.72E-08	1.65YrCancerDerived_Inh_FAH3to16	8.72E-08
1585	ALL	559771.6	4243447.75	8.70E-08	1.65YrCancerDerived_Inh_FAH3to16	8.70E-08
1401	ALL	559751.6	4243367.75	8.68E-08	1.65YrCancerDerived_Inh_FAH3to16	8.68E-08
2098	ALL	559711.6	4243667.75	8.66E-08	1.65YrCancerDerived_Inh_FAH3to16	8.66E-08
2193	ALL	559691.6	4243707.75	8.62E-08	1.65YrCancerDerived_Inh_FAH3to16	8.62E-08
1769	ALL	559771.6	4243527.75	8.62E-08	1.65YrCancerDerived_Inh_FAH3to16	8.62E-08
470	ALL	559351.6	4242947.75	8.53E-08	1.65YrCancerDerived_Inh_FAH3to16	8.53E-08
797	ALL	559611.6	4243087.75	8.50E-08	1.65YrCancerDerived_Inh_FAH3to16	8.50E-08
383	ALL	559431.6	4242907.75	8.49E-08	1.65YrCancerDerived_Inh_FAH3to16	8.49E-08
1606	ALL	559271.6	4243467.75	8.48E-08	1.65YrCancerDerived_Inh_FAH3to16	8.48E-08
1539	ALL	559771.6	4243427.75	8.47E-08	1.65YrCancerDerived_Inh_FAH3to16	8.47E-08
2127	ALL	559331.6	4243687.75	8.45E-08	1.65YrCancerDerived_Inh_FAH3to16	8.45E-08
705	ALL	559591.6	4243047.75	8.44E-08	1.65YrCancerDerived_Inh_FAH3to16	8.44E-08
384	ALL	559451.6	4242907.75	8.44E-08	1.65YrCancerDerived_Inh_FAH3to16	8.44E-08
1152	ALL	559691.6	4243247.75	8.41E-08	1.65YrCancerDerived_Inh_FAH3to16	8.41E-08
1814	ALL	559771.6	4243547.75	8.40E-08	1.65YrCancerDerived_Inh_FAH3to16	8.40E-08
426	ALL	559371.6	4242927.75	8.39E-08	1.65YrCancerDerived_Inh_FAH3to16	8.39E-08
888	ALL	559631.6	4243127.75	8.38E-08	1.65YrCancerDerived_Inh_FAH3to16	8.38E-08
514	ALL	559331.6	4242967.75	8.37E-08	1.65YrCancerDerived_Inh_FAH3to16	8.37E-08
382	ALL	559411.6	4242907.75	8.35E-08	1.65YrCancerDerived_Inh_FAH3to16	8.35E-08
1957	ALL	559751.6	4243607.75	8.33E-08	1.65YrCancerDerived_Inh_FAH3to16	8.33E-08
918	ALL	559231.6	4243147.75	8.32E-08	1.65YrCancerDerived_Inh_FAH3to16	8.32E-08
1790	ALL	559291.6	4243547.75	8.31E-08	1.65YrCancerDerived_Inh_FAH3to16	8.31E-08
1983	ALL	559311.6	4243627.75	8.30E-08	1.65YrCancerDerived_Inh_FAH3to16	8.30E-08
2051	ALL	559731.6	4243647.75	8.30E-08	1.65YrCancerDerived_Inh_FAH3to16	8.30E-08
2241	ALL	559691.6	4243727.75	8.24E-08	1.65YrCancerDerived_Inh_FAH3to16	8.24E-08
612	ALL	559571.6	4243007.75	8.24E-08	1.65YrCancerDerived_Inh_FAH3to16	8.24E-08
2146	ALL	559711.6	4243687.75	8.23E-08	1.65YrCancerDerived_Inh_FAH3to16	8.23E-08
385	ALL	559471.6	4242907.75	8.19E-08	1.65YrCancerDerived_Inh_FAH3to16	8.19E-08
978	ALL	559651.6	4243167.75	8.18E-08	1.65YrCancerDerived_Inh_FAH3to16	8.18E-08
1069	ALL	559671.6	4243207.75	8.16E-08	1.65YrCancerDerived_Inh_FAH3to16	8.16E-08
1862	ALL	559771.6	4243567.75	8.14E-08	1.65YrCancerDerived_Inh_FAH3to16	8.14E-08
1493	ALL	559771.6	4243407.75	8.14E-08	1.65YrCancerDerived_Inh_FAH3to16	8.14E-08
1513	ALL	559251.6	4243427.75	8.11E-08	1.65YrCancerDerived_Inh_FAH3to16	8.11E-08
1559	ALL	559251.6	4243447.75	8.10E-08	1.65YrCancerDerived_Inh_FAH3to16	8.10E-08
648	ALL	559291.6	4243027.75	8.08E-08	1.65YrCancerDerived_Inh_FAH3to16	8.08E-08
1269	ALL	559731.6	4243307.75	8.06E-08	1.65YrCancerDerived_Inh_FAH3to16	8.06E-08
1357	ALL	559751.6	4243347.75	8.04E-08	1.65YrCancerDerived_Inh_FAH3to16	8.04E-08
829	ALL	559251.6	4243107.75	8.04E-08	1.65YrCancerDerived_Inh_FAH3to16	8.04E-08
381	ALL	559391.6	4242907.75	8.01E-08	1.65YrCancerDerived_Inh_FAH3to16	8.01E-08
2175	ALL	559331.6	4243707.75	7.98E-08	1.65YrCancerDerived_Inh_FAH3to16	7.98E-08
1652	ALL	559271.6	4243487.75	7.97E-08	1.65YrCancerDerived_Inh_FAH3to16	7.97E-08
559	ALL	559311.6	4242987.75	7.95E-08	1.65YrCancerDerived_Inh_FAH3to16	7.95E-08
1096	ALL	559211.6	4243227.75	7.94E-08	1.65YrCancerDerived_Inh_FAH3to16	7.94E-08

739	ALL	559271.6	4243067.75	7.93E-08	1.65YrCancerDerived_Inh_FAH3to16	7.93E-08
2099	ALL	559731.6	4243667.75	7.93E-08	1.65YrCancerDerived_Inh_FAH3to16	7.93E-08
2005	ALL	559751.6	4243627.75	7.93E-08	1.65YrCancerDerived_Inh_FAH3to16	7.93E-08
1139	ALL	559211.6	4243247.75	7.90E-08	1.65YrCancerDerived_Inh_FAH3to16	7.90E-08
1838	ALL	559291.6	4243567.75	7.89E-08	1.65YrCancerDerived_Inh_FAH3to16	7.89E-08
521	ALL	559551.6	4242967.75	7.88E-08	1.65YrCancerDerived_Inh_FAH3to16	7.88E-08
1910	ALL	559771.6	4243587.75	7.85E-08	1.65YrCancerDerived_Inh_FAH3to16	7.85E-08
2194	ALL	559711.6	4243707.75	7.84E-08	1.65YrCancerDerived_Inh_FAH3to16	7.84E-08
1051	ALL	559211.6	4243207.75	7.83E-08	1.65YrCancerDerived_Inh_FAH3to16	7.83E-08
2030	ALL	559311.6	4243647.75	7.82E-08	1.65YrCancerDerived_Inh_FAH3to16	7.82E-08
1188	ALL	559711.6	4243267.75	7.79E-08	1.65YrCancerDerived_Inh_FAH3to16	7.79E-08
386	ALL	559491.6	4242907.75	7.75E-08	1.65YrCancerDerived_Inh_FAH3to16	7.75E-08
1447	ALL	559771.6	4243387.75	7.73E-08	1.65YrCancerDerived_Inh_FAH3to16	7.73E-08
1178	ALL	559211.6	4243267.75	7.72E-08	1.65YrCancerDerived_Inh_FAH3to16	7.72E-08
752	ALL	559611.6	4243067.75	7.69E-08	1.65YrCancerDerived_Inh_FAH3to16	7.69E-08
1678	ALL	559791.6	4243487.75	7.68E-08	1.65YrCancerDerived_Inh_FAH3to16	7.68E-08
1724	ALL	559791.6	4243507.75	7.68E-08	1.65YrCancerDerived_Inh_FAH3to16	7.68E-08
425	ALL	559351.6	4242927.75	7.67E-08	1.65YrCancerDerived_Inh_FAH3to16	7.67E-08
659	ALL	559591.6	4243027.75	7.64E-08	1.65YrCancerDerived_Inh_FAH3to16	7.64E-08
1770	ALL	559791.6	4243527.75	7.61E-08	1.65YrCancerDerived_Inh_FAH3to16	7.61E-08
1006	ALL	559211.6	4243187.75	7.61E-08	1.65YrCancerDerived_Inh_FAH3to16	7.61E-08
1632	ALL	559791.6	4243467.75	7.60E-08	1.65YrCancerDerived_Inh_FAH3to16	7.60E-08
843	ALL	559631.6	4243107.75	7.59E-08	1.65YrCancerDerived_Inh_FAH3to16	7.59E-08
469	ALL	559331.6	4242947.75	7.58E-08	1.65YrCancerDerived_Inh_FAH3to16	7.58E-08
873	ALL	559231.6	4243127.75	7.58E-08	1.65YrCancerDerived_Inh_FAH3to16	7.58E-08
2052	ALL	559751.6	4243647.75	7.57E-08	1.65YrCancerDerived_Inh_FAH3to16	7.57E-08
2147	ALL	559731.6	4243687.75	7.55E-08	1.65YrCancerDerived_Inh_FAH3to16	7.55E-08
2223	ALL	559331.6	4243727.75	7.55E-08	1.65YrCancerDerived_Inh_FAH3to16	7.55E-08
1958	ALL	559771.6	4243607.75	7.55E-08	1.65YrCancerDerived_Inh_FAH3to16	7.55E-08
1886	ALL	559291.6	4243587.75	7.55E-08	1.65YrCancerDerived_Inh_FAH3to16	7.55E-08
338	ALL	559431.6	4242887.75	7.54E-08	1.65YrCancerDerived_Inh_FAH3to16	7.54E-08
380	ALL	559371.6	4242907.75	7.53E-08	1.65YrCancerDerived_Inh_FAH3to16	7.53E-08
1213	ALL	559211.6	4243287.75	7.50E-08	1.65YrCancerDerived_Inh_FAH3to16	7.50E-08
2242	ALL	559711.6	4243727.75	7.50E-08	1.65YrCancerDerived_Inh_FAH3to16	7.50E-08
1113	ALL	559691.6	4243227.75	7.48E-08	1.65YrCancerDerived_Inh_FAH3to16	7.48E-08
339	ALL	559451.6	4242887.75	7.48E-08	1.65YrCancerDerived_Inh_FAH3to16	7.48E-08
1815	ALL	559791.6	4243547.75	7.47E-08	1.65YrCancerDerived_Inh_FAH3to16	7.47E-08
567	ALL	559571.6	4242987.75	7.45E-08	1.65YrCancerDerived_Inh_FAH3to16	7.45E-08
1586	ALL	559791.6	4243447.75	7.44E-08	1.65YrCancerDerived_Inh_FAH3to16	7.44E-08
2078	ALL	559311.6	4243667.75	7.44E-08	1.65YrCancerDerived_Inh_FAH3to16	7.44E-08
337	ALL	559411.6	4242887.75	7.43E-08	1.65YrCancerDerived_Inh_FAH3to16	7.43E-08
934	ALL	559651.6	4243147.75	7.41E-08	1.65YrCancerDerived_Inh_FAH3to16	7.41E-08
1313	ALL	559751.6	4243327.75	7.37E-08	1.65YrCancerDerived_Inh_FAH3to16	7.37E-08
603	ALL	559291.6	4243007.75	7.36E-08	1.65YrCancerDerived_Inh_FAH3to16	7.36E-08
962	ALL	559211.6	4243167.75	7.35E-08	1.65YrCancerDerived_Inh_FAH3to16	7.35E-08
1698	ALL	559271.6	4243507.75	7.34E-08	1.65YrCancerDerived_Inh_FAH3to16	7.34E-08
1024	ALL	559671.6	4243187.75	7.34E-08	1.65YrCancerDerived_Inh_FAH3to16	7.34E-08
1863	ALL	559791.6	4243567.75	7.30E-08	1.65YrCancerDerived_Inh_FAH3to16	7.30E-08
340	ALL	559471.6	4242887.75	7.26E-08	1.65YrCancerDerived_Inh_FAH3to16	7.26E-08
513	ALL	559311.6	4242967.75	7.26E-08	1.65YrCancerDerived_Inh_FAH3to16	7.26E-08
693	ALL	559271.6	4243047.75	7.26E-08	1.65YrCancerDerived_Inh_FAH3to16	7.26E-08
1402	ALL	559771.6	4243367.75	7.25E-08	1.65YrCancerDerived_Inh_FAH3to16	7.25E-08
2100	ALL	559751.6	4243667.75	7.24E-08	1.65YrCancerDerived_Inh_FAH3to16	7.24E-08
2006	ALL	559771.6	4243627.75	7.23E-08	1.65YrCancerDerived_Inh_FAH3to16	7.23E-08
1228	ALL	559731.6	4243287.75	7.23E-08	1.65YrCancerDerived_Inh_FAH3to16	7.23E-08
1540	ALL	559791.6	4243427.75	7.21E-08	1.65YrCancerDerived_Inh_FAH3to16	7.21E-08
784	ALL	559251.6	4243087.75	7.20E-08	1.65YrCancerDerived_Inh_FAH3to16	7.20E-08
1605	ALL	559251.6	4243467.75	7.18E-08	1.65YrCancerDerived_Inh_FAH3to16	7.18E-08
1252	ALL	559211.6	4243307.75	7.18E-08	1.65YrCancerDerived_Inh_FAH3to16	7.18E-08
336	ALL	559391.6	4242887.75	7.18E-08	1.65YrCancerDerived_Inh_FAH3to16	7.18E-08
2195	ALL	559731.6	4243707.75	7.16E-08	1.65YrCancerDerived_Inh_FAH3to16	7.16E-08
1934	ALL	559291.6	4243607.75	7.09E-08	1.65YrCancerDerived_Inh_FAH3to16	7.09E-08
1911	ALL	559791.6	4243587.75	7.08E-08	1.65YrCancerDerived_Inh_FAH3to16	7.08E-08
2126	ALL	559311.6	4243687.75	7.06E-08	1.65YrCancerDerived_Inh_FAH3to16	7.06E-08
706	ALL	559611.6	4243047.75	6.99E-08	1.65YrCancerDerived_Inh_FAH3to16	6.99E-08
917	ALL	559211.6	4243147.75	6.98E-08	1.65YrCancerDerived_Inh_FAH3to16	6.98E-08
379	ALL	559351.6	4242907.75	6.95E-08	1.65YrCancerDerived_Inh_FAH3to16	6.95E-08
613	ALL	559591.6	4243007.75	6.94E-08	1.65YrCancerDerived_Inh_FAH3to16	6.94E-08
1153	ALL	559711.6	4243247.75	6.94E-08	1.65YrCancerDerived_Inh_FAH3to16	6.94E-08
2053	ALL	559771.6	4243647.75	6.92E-08	1.65YrCancerDerived_Inh_FAH3to16	6.92E-08
798	ALL	559631.6	4243087.75	6.91E-08	1.65YrCancerDerived_Inh_FAH3to16	6.91E-08
424	ALL	559331.6	4242927.75	6.91E-08	1.65YrCancerDerived_Inh_FAH3to16	6.91E-08
2148	ALL	559751.6	4243687.75	6.91E-08	1.65YrCancerDerived_Inh_FAH3to16	6.91E-08
1744	ALL	559271.6	4243527.75	6.91E-08	1.65YrCancerDerived_Inh_FAH3to16	6.91E-08

341	ALL	559491.6	4242887.75	6.90E-08	1.65YrCancerDerived_Inh_FAH3to16	6.90E-08
1494	ALL	559791.6	4243407.75	6.90E-08	1.65YrCancerDerived_Inh_FAH3to16	6.90E-08
2243	ALL	559731.6	4243727.75	6.85E-08	1.65YrCancerDerived_Inh_FAH3to16	6.85E-08
1959	ALL	559791.6	4243607.75	6.85E-08	1.65YrCancerDerived_Inh_FAH3to16	6.85E-08
1604	ALL	559231.6	4243467.75	6.81E-08	1.65YrCancerDerived_Inh_FAH3to16	6.81E-08
828	ALL	559231.6	4243107.75	6.80E-08	1.65YrCancerDerived_Inh_FAH3to16	6.80E-08
335	ALL	559371.6	4242887.75	6.80E-08	1.65YrCancerDerived_Inh_FAH3to16	6.80E-08
1293	ALL	559211.6	4243327.75	6.79E-08	1.65YrCancerDerived_Inh_FAH3to16	6.79E-08
522	ALL	559571.6	4242967.75	6.77E-08	1.65YrCancerDerived_Inh_FAH3to16	6.77E-08
889	ALL	559651.6	4243127.75	6.76E-08	1.65YrCancerDerived_Inh_FAH3to16	6.76E-08
558	ALL	559291.6	4242987.75	6.75E-08	1.65YrCancerDerived_Inh_FAH3to16	6.75E-08
1725	ALL	559811.6	4243507.75	6.74E-08	1.65YrCancerDerived_Inh_FAH3to16	6.74E-08
293	ALL	559431.6	4242867.75	6.74E-08	1.65YrCancerDerived_Inh_FAH3to16	6.74E-08
1358	ALL	559771.6	4243347.75	6.73E-08	1.65YrCancerDerived_Inh_FAH3to16	6.73E-08
1771	ALL	559811.6	4243527.75	6.73E-08	1.65YrCancerDerived_Inh_FAH3to16	6.73E-08
1070	ALL	559691.6	4243207.75	6.71E-08	1.65YrCancerDerived_Inh_FAH3to16	6.71E-08
2174	ALL	559311.6	4243707.75	6.71E-08	1.65YrCancerDerived_Inh_FAH3to16	6.71E-08
1270	ALL	559751.6	4243307.75	6.70E-08	1.65YrCancerDerived_Inh_FAH3to16	6.70E-08
647	ALL	559271.6	4243027.75	6.70E-08	1.65YrCancerDerived_Inh_FAH3to16	6.70E-08
1679	ALL	559811.6	4243487.75	6.69E-08	1.65YrCancerDerived_Inh_FAH3to16	6.69E-08
1982	ALL	559291.6	4243627.75	6.69E-08	1.65YrCancerDerived_Inh_FAH3to16	6.69E-08
294	ALL	559451.6	4242867.75	6.69E-08	1.65YrCancerDerived_Inh_FAH3to16	6.69E-08
468	ALL	559311.6	4242947.75	6.67E-08	1.65YrCancerDerived_Inh_FAH3to16	6.67E-08
292	ALL	559411.6	4242867.75	6.66E-08	1.65YrCancerDerived_Inh_FAH3to16	6.66E-08
1816	ALL	559811.6	4243547.75	6.66E-08	1.65YrCancerDerived_Inh_FAH3to16	6.66E-08
979	ALL	559671.6	4243167.75	6.65E-08	1.65YrCancerDerived_Inh_FAH3to16	6.65E-08
2101	ALL	559771.6	4243667.75	6.63E-08	1.65YrCancerDerived_Inh_FAH3to16	6.63E-08
2007	ALL	559791.6	4243627.75	6.60E-08	1.65YrCancerDerived_Inh_FAH3to16	6.60E-08
2196	ALL	559751.6	4243707.75	6.59E-08	1.65YrCancerDerived_Inh_FAH3to16	6.59E-08
1633	ALL	559811.6	4243467.75	6.58E-08	1.65YrCancerDerived_Inh_FAH3to16	6.58E-08
738	ALL	559251.6	4243067.75	6.57E-08	1.65YrCancerDerived_Inh_FAH3to16	6.57E-08
1789	ALL	559271.6	4243547.75	6.57E-08	1.65YrCancerDerived_Inh_FAH3to16	6.57E-08
1864	ALL	559811.6	4243567.75	6.54E-08	1.65YrCancerDerived_Inh_FAH3to16	6.54E-08
1448	ALL	559791.6	4243387.75	6.54E-08	1.65YrCancerDerived_Inh_FAH3to16	6.54E-08
1095	ALL	559191.6	4243227.75	6.52E-08	1.65YrCancerDerived_Inh_FAH3to16	6.52E-08
1651	ALL	559251.6	4243487.75	6.51E-08	1.65YrCancerDerived_Inh_FAH3to16	6.51E-08
295	ALL	559471.6	4242867.75	6.50E-08	1.65YrCancerDerived_Inh_FAH3to16	6.50E-08
1336	ALL	559211.6	4243347.75	6.50E-08	1.65YrCancerDerived_Inh_FAH3to16	6.50E-08
1138	ALL	559191.6	4243247.75	6.49E-08	1.65YrCancerDerived_Inh_FAH3to16	6.49E-08
1189	ALL	559731.6	4243267.75	6.48E-08	1.65YrCancerDerived_Inh_FAH3to16	6.48E-08
291	ALL	559391.6	4242867.75	6.46E-08	1.65YrCancerDerived_Inh_FAH3to16	6.46E-08
872	ALL	559211.6	4243127.75	6.46E-08	1.65YrCancerDerived_Inh_FAH3to16	6.46E-08
1050	ALL	559191.6	4243207.75	6.45E-08	1.65YrCancerDerived_Inh_FAH3to16	6.45E-08
1587	ALL	559811.6	4243447.75	6.41E-08	1.65YrCancerDerived_Inh_FAH3to16	6.41E-08
1912	ALL	559811.6	4243587.75	6.40E-08	1.65YrCancerDerived_Inh_FAH3to16	6.40E-08
660	ALL	559611.6	4243027.75	6.39E-08	1.65YrCancerDerived_Inh_FAH3to16	6.39E-08
2222	ALL	559311.6	4243727.75	6.39E-08	1.65YrCancerDerived_Inh_FAH3to16	6.39E-08
2029	ALL	559291.6	4243647.75	6.36E-08	1.65YrCancerDerived_Inh_FAH3to16	6.36E-08
1177	ALL	559191.6	4243267.75	6.35E-08	1.65YrCancerDerived_Inh_FAH3to16	6.35E-08
2149	ALL	559771.6	4243687.75	6.35E-08	1.65YrCancerDerived_Inh_FAH3to16	6.35E-08
2054	ALL	559791.6	4243647.75	6.35E-08	1.65YrCancerDerived_Inh_FAH3to16	6.35E-08
568	ALL	559591.6	4242987.75	6.34E-08	1.65YrCancerDerived_Inh_FAH3to16	6.34E-08
753	ALL	559631.6	4243067.75	6.33E-08	1.65YrCancerDerived_Inh_FAH3to16	6.33E-08
378	ALL	559331.6	4242907.75	6.33E-08	1.65YrCancerDerived_Inh_FAH3to16	6.33E-08
334	ALL	559351.6	4242887.75	6.32E-08	1.65YrCancerDerived_Inh_FAH3to16	6.32E-08
1005	ALL	559191.6	4243187.75	6.32E-08	1.65YrCancerDerived_Inh_FAH3to16	6.32E-08
1837	ALL	559271.6	4243567.75	6.32E-08	1.65YrCancerDerived_Inh_FAH3to16	6.32E-08
2244	ALL	559751.6	4243727.75	6.32E-08	1.65YrCancerDerived_Inh_FAH3to16	6.32E-08
512	ALL	559291.6	4242967.75	6.22E-08	1.65YrCancerDerived_Inh_FAH3to16	6.22E-08
1114	ALL	559711.6	4243227.75	6.22E-08	1.65YrCancerDerived_Inh_FAH3to16	6.22E-08
1960	ALL	559811.6	4243607.75	6.22E-08	1.65YrCancerDerived_Inh_FAH3to16	6.22E-08
296	ALL	559491.6	4242867.75	6.21E-08	1.65YrCancerDerived_Inh_FAH3to16	6.21E-08
1212	ALL	559191.6	4243287.75	6.20E-08	1.65YrCancerDerived_Inh_FAH3to16	6.20E-08
602	ALL	559271.6	4243007.75	6.19E-08	1.65YrCancerDerived_Inh_FAH3to16	6.19E-08
1314	ALL	559771.6	4243327.75	6.19E-08	1.65YrCancerDerived_Inh_FAH3to16	6.19E-08
1541	ALL	559811.6	4243427.75	6.19E-08	1.65YrCancerDerived_Inh_FAH3to16	6.19E-08
844	ALL	559651.6	4243107.75	6.18E-08	1.65YrCancerDerived_Inh_FAH3to16	6.18E-08
476	ALL	559571.6	4242947.75	6.17E-08	1.65YrCancerDerived_Inh_FAH3to16	6.17E-08
290	ALL	559371.6	4242867.75	6.17E-08	1.65YrCancerDerived_Inh_FAH3to16	6.17E-08
961	ALL	559191.6	4243167.75	6.16E-08	1.65YrCancerDerived_Inh_FAH3to16	6.16E-08
423	ALL	559311.6	4242927.75	6.15E-08	1.65YrCancerDerived_Inh_FAH3to16	6.15E-08
1403	ALL	559791.6	4243367.75	6.14E-08	1.65YrCancerDerived_Inh_FAH3to16	6.14E-08
783	ALL	559231.6	4243087.75	6.12E-08	1.65YrCancerDerived_Inh_FAH3to16	6.12E-08
2102	ALL	559791.6	4243667.75	6.10E-08	1.65YrCancerDerived_Inh_FAH3to16	6.10E-08

2197	ALL	559771.6	4243707.75	6.08E-08	1.65YrCancerDerived_Inh_FAH3to16	6.08E-08
2077	ALL	559291.6	4243667.75	6.08E-08	1.65YrCancerDerived_Inh_FAH3to16	6.08E-08
248	ALL	559431.6	4242847.75	6.07E-08	1.65YrCancerDerived_Inh_FAH3to16	6.07E-08
692	ALL	559251.6	4243047.75	6.07E-08	1.65YrCancerDerived_Inh_FAH3to16	6.07E-08
1025	ALL	559691.6	4243187.75	6.06E-08	1.65YrCancerDerived_Inh_FAH3to16	6.06E-08
935	ALL	559671.6	4243147.75	6.06E-08	1.65YrCancerDerived_Inh_FAH3to16	6.06E-08
1229	ALL	559751.6	4243287.75	6.06E-08	1.65YrCancerDerived_Inh_FAH3to16	6.06E-08
2008	ALL	559811.6	4243627.75	6.03E-08	1.65YrCancerDerived_Inh_FAH3to16	6.03E-08
249	ALL	559451.6	4242847.75	6.02E-08	1.65YrCancerDerived_Inh_FAH3to16	6.02E-08
247	ALL	559411.6	4242847.75	6.01E-08	1.65YrCancerDerived_Inh_FAH3to16	6.01E-08
1885	ALL	559271.6	4243587.75	6.00E-08	1.65YrCancerDerived_Inh_FAH3to16	6.00E-08
1697	ALL	559251.6	4243507.75	5.98E-08	1.65YrCancerDerived_Inh_FAH3to16	5.98E-08
1772	ALL	559831.6	4243527.75	5.96E-08	1.65YrCancerDerived_Inh_FAH3to16	5.96E-08
1817	ALL	559831.6	4243547.75	5.94E-08	1.65YrCancerDerived_Inh_FAH3to16	5.94E-08
1251	ALL	559191.6	4243307.75	5.94E-08	1.65YrCancerDerived_Inh_FAH3to16	5.94E-08
1726	ALL	559831.6	4243507.75	5.94E-08	1.65YrCancerDerived_Inh_FAH3to16	5.94E-08
916	ALL	559191.6	4243147.75	5.91E-08	1.65YrCancerDerived_Inh_FAH3to16	5.91E-08
1495	ALL	559811.6	4243407.75	5.91E-08	1.65YrCancerDerived_Inh_FAH3to16	5.91E-08
1865	ALL	559831.6	4243567.75	5.88E-08	1.65YrCancerDerived_Inh_FAH3to16	5.88E-08
614	ALL	559611.6	4243007.75	5.87E-08	1.65YrCancerDerived_Inh_FAH3to16	5.87E-08
250	ALL	559471.6	4242847.75	5.87E-08	1.65YrCancerDerived_Inh_FAH3to16	5.87E-08
827	ALL	559211.6	4243107.75	5.86E-08	1.65YrCancerDerived_Inh_FAH3to16	5.86E-08
1680	ALL	559831.6	4243487.75	5.86E-08	1.65YrCancerDerived_Inh_FAH3to16	5.86E-08
246	ALL	559391.6	4242847.75	5.86E-08	1.65YrCancerDerived_Inh_FAH3to16	5.86E-08
2150	ALL	559791.6	4243687.75	5.86E-08	1.65YrCancerDerived_Inh_FAH3to16	5.86E-08
2125	ALL	559291.6	4243687.75	5.84E-08	1.65YrCancerDerived_Inh_FAH3to16	5.84E-08
2245	ALL	559771.6	4243727.75	5.83E-08	1.65YrCancerDerived_Inh_FAH3to16	5.83E-08
2055	ALL	559811.6	4243647.75	5.82E-08	1.65YrCancerDerived_Inh_FAH3to16	5.82E-08
1154	ALL	559731.6	4243247.75	5.82E-08	1.65YrCancerDerived_Inh_FAH3to16	5.82E-08
523	ALL	559591.6	4242967.75	5.82E-08	1.65YrCancerDerived_Inh_FAH3to16	5.82E-08
707	ALL	559631.6	4243047.75	5.82E-08	1.65YrCancerDerived_Inh_FAH3to16	5.82E-08
297	ALL	559511.6	4242867.75	5.82E-08	1.65YrCancerDerived_Inh_FAH3to16	5.82E-08
333	ALL	559331.6	4242887.75	5.80E-08	1.65YrCancerDerived_Inh_FAH3to16	5.80E-08
289	ALL	559351.6	4242867.75	5.78E-08	1.65YrCancerDerived_Inh_FAH3to16	5.78E-08
1913	ALL	559831.6	4243587.75	5.77E-08	1.65YrCancerDerived_Inh_FAH3to16	5.77E-08
467	ALL	559291.6	4242947.75	5.77E-08	1.65YrCancerDerived_Inh_FAH3to16	5.77E-08
1634	ALL	559831.6	4243467.75	5.74E-08	1.65YrCancerDerived_Inh_FAH3to16	5.74E-08
1650	ALL	559231.6	4243487.75	5.71E-08	1.65YrCancerDerived_Inh_FAH3to16	5.71E-08
557	ALL	559271.6	4242987.75	5.71E-08	1.65YrCancerDerived_Inh_FAH3to16	5.71E-08
1359	ALL	559791.6	4243347.75	5.70E-08	1.65YrCancerDerived_Inh_FAH3to16	5.70E-08
1933	ALL	559271.6	4243607.75	5.70E-08	1.65YrCancerDerived_Inh_FAH3to16	5.70E-08
799	ALL	559651.6	4243087.75	5.69E-08	1.65YrCancerDerived_Inh_FAH3to16	5.69E-08
1961	ALL	559831.6	4243607.75	5.65E-08	1.65YrCancerDerived_Inh_FAH3to16	5.65E-08
1271	ALL	559771.6	4243307.75	5.65E-08	1.65YrCancerDerived_Inh_FAH3to16	5.65E-08
377	ALL	559311.6	4242907.75	5.65E-08	1.65YrCancerDerived_Inh_FAH3to16	5.65E-08
1292	ALL	559191.6	4243327.75	5.63E-08	1.65YrCancerDerived_Inh_FAH3to16	5.63E-08
2198	ALL	559791.6	4243707.75	5.62E-08	1.65YrCancerDerived_Inh_FAH3to16	5.62E-08
245	ALL	559371.6	4242847.75	5.62E-08	1.65YrCancerDerived_Inh_FAH3to16	5.62E-08
251	ALL	559491.6	4242847.75	5.62E-08	1.65YrCancerDerived_Inh_FAH3to16	5.62E-08
2103	ALL	559811.6	4243667.75	5.62E-08	1.65YrCancerDerived_Inh_FAH3to16	5.62E-08
1071	ALL	559711.6	4243207.75	5.61E-08	1.65YrCancerDerived_Inh_FAH3to16	5.61E-08
646	ALL	559251.6	4243027.75	5.59E-08	1.65YrCancerDerived_Inh_FAH3to16	5.59E-08
2173	ALL	559291.6	4243707.75	5.59E-08	1.65YrCancerDerived_Inh_FAH3to16	5.59E-08
1449	ALL	559811.6	4243387.75	5.59E-08	1.65YrCancerDerived_Inh_FAH3to16	5.59E-08
737	ALL	559231.6	4243067.75	5.59E-08	1.65YrCancerDerived_Inh_FAH3to16	5.59E-08
1743	ALL	559251.6	4243527.75	5.58E-08	1.65YrCancerDerived_Inh_FAH3to16	5.58E-08
1588	ALL	559831.6	4243447.75	5.56E-08	1.65YrCancerDerived_Inh_FAH3to16	5.56E-08
890	ALL	559671.6	4243127.75	5.56E-08	1.65YrCancerDerived_Inh_FAH3to16	5.56E-08
871	ALL	559191.6	4243127.75	5.55E-08	1.65YrCancerDerived_Inh_FAH3to16	5.55E-08
980	ALL	559691.6	4243167.75	5.51E-08	1.65YrCancerDerived_Inh_FAH3to16	5.51E-08
2009	ALL	559831.6	4243627.75	5.51E-08	1.65YrCancerDerived_Inh_FAH3to16	5.51E-08
203	ALL	559431.6	4242827.75	5.51E-08	1.65YrCancerDerived_Inh_FAH3to16	5.51E-08
202	ALL	559411.6	4242827.75	5.47E-08	1.65YrCancerDerived_Inh_FAH3to16	5.47E-08
1190	ALL	559751.6	4243267.75	5.47E-08	1.65YrCancerDerived_Inh_FAH3to16	5.47E-08
204	ALL	559451.6	4242827.75	5.46E-08	1.65YrCancerDerived_Inh_FAH3to16	5.46E-08
1094	ALL	559171.6	4243227.75	5.44E-08	1.65YrCancerDerived_Inh_FAH3to16	5.44E-08
1049	ALL	559171.6	4243207.75	5.42E-08	1.65YrCancerDerived_Inh_FAH3to16	5.42E-08
1137	ALL	559171.6	4243247.75	5.42E-08	1.65YrCancerDerived_Inh_FAH3to16	5.42E-08
569	ALL	559611.6	4242987.75	5.41E-08	1.65YrCancerDerived_Inh_FAH3to16	5.41E-08
2151	ALL	559811.6	4243687.75	5.41E-08	1.65YrCancerDerived_Inh_FAH3to16	5.41E-08
1981	ALL	559271.6	4243627.75	5.40E-08	1.65YrCancerDerived_Inh_FAH3to16	5.40E-08
2246	ALL	559791.6	4243727.75	5.39E-08	1.65YrCancerDerived_Inh_FAH3to16	5.39E-08
661	ALL	559631.6	4243027.75	5.37E-08	1.65YrCancerDerived_Inh_FAH3to16	5.37E-08
477	ALL	559591.6	4242947.75	5.36E-08	1.65YrCancerDerived_Inh_FAH3to16	5.36E-08

1004	ALL	559171.6	4243187.75	5.35E-08	1.65YrCancerDerived_Inh_FAH3to16	5.35E-08
2221	ALL	559291.6	4243727.75	5.35E-08	1.65YrCancerDerived_Inh_FAH3to16	5.35E-08
422	ALL	559291.6	4242927.75	5.35E-08	1.65YrCancerDerived_Inh_FAH3to16	5.35E-08
1542	ALL	559831.6	4243427.75	5.35E-08	1.65YrCancerDerived_Inh_FAH3to16	5.35E-08
1335	ALL	559191.6	4243347.75	5.35E-08	1.65YrCancerDerived_Inh_FAH3to16	5.35E-08
201	ALL	559391.6	4242827.75	5.34E-08	1.65YrCancerDerived_Inh_FAH3to16	5.34E-08
2056	ALL	559831.6	4243647.75	5.34E-08	1.65YrCancerDerived_Inh_FAH3to16	5.34E-08
288	ALL	559331.6	4242867.75	5.33E-08	1.65YrCancerDerived_Inh_FAH3to16	5.33E-08
1176	ALL	559171.6	4243267.75	5.33E-08	1.65YrCancerDerived_Inh_FAH3to16	5.33E-08
205	ALL	559471.6	4242827.75	5.32E-08	1.65YrCancerDerived_Inh_FAH3to16	5.32E-08
511	ALL	559271.6	4242967.75	5.32E-08	1.65YrCancerDerived_Inh_FAH3to16	5.32E-08
1818	ALL	559851.6	4243547.75	5.31E-08	1.65YrCancerDerived_Inh_FAH3to16	5.31E-08
782	ALL	559211.6	4243087.75	5.31E-08	1.65YrCancerDerived_Inh_FAH3to16	5.31E-08
244	ALL	559351.6	4242847.75	5.30E-08	1.65YrCancerDerived_Inh_FAH3to16	5.30E-08
1773	ALL	559851.6	4243527.75	5.30E-08	1.65YrCancerDerived_Inh_FAH3to16	5.30E-08
252	ALL	559511.6	4242847.75	5.29E-08	1.65YrCancerDerived_Inh_FAH3to16	5.29E-08
1866	ALL	559851.6	4243567.75	5.29E-08	1.65YrCancerDerived_Inh_FAH3to16	5.29E-08
1788	ALL	559251.6	4243547.75	5.28E-08	1.65YrCancerDerived_Inh_FAH3to16	5.28E-08
1315	ALL	559791.6	4243327.75	5.26E-08	1.65YrCancerDerived_Inh_FAH3to16	5.26E-08
754	ALL	559651.6	4243067.75	5.26E-08	1.65YrCancerDerived_Inh_FAH3to16	5.26E-08
1115	ALL	559731.6	4243227.75	5.25E-08	1.65YrCancerDerived_Inh_FAH3to16	5.25E-08
1404	ALL	559811.6	4243367.75	5.25E-08	1.65YrCancerDerived_Inh_FAH3to16	5.25E-08
1727	ALL	559851.6	4243507.75	5.25E-08	1.65YrCancerDerived_Inh_FAH3to16	5.25E-08
960	ALL	559171.6	4243167.75	5.24E-08	1.65YrCancerDerived_Inh_FAH3to16	5.24E-08
1914	ALL	559851.6	4243587.75	5.23E-08	1.65YrCancerDerived_Inh_FAH3to16	5.23E-08
332	ALL	559311.6	4242887.75	5.22E-08	1.65YrCancerDerived_Inh_FAH3to16	5.22E-08
601	ALL	559251.6	4243007.75	5.21E-08	1.65YrCancerDerived_Inh_FAH3to16	5.21E-08
2028	ALL	559271.6	4243647.75	5.21E-08	1.65YrCancerDerived_Inh_FAH3to16	5.21E-08
1211	ALL	559171.6	4243287.75	5.20E-08	1.65YrCancerDerived_Inh_FAH3to16	5.20E-08
2199	ALL	559811.6	4243707.75	5.20E-08	1.65YrCancerDerived_Inh_FAH3to16	5.20E-08
2104	ALL	559831.6	4243667.75	5.17E-08	1.65YrCancerDerived_Inh_FAH3to16	5.17E-08
1681	ALL	559851.6	4243487.75	5.15E-08	1.65YrCancerDerived_Inh_FAH3to16	5.15E-08
200	ALL	559371.6	4242827.75	5.15E-08	1.65YrCancerDerived_Inh_FAH3to16	5.15E-08
1962	ALL	559851.6	4243607.75	5.14E-08	1.65YrCancerDerived_Inh_FAH3to16	5.14E-08
1230	ALL	559771.6	4243287.75	5.14E-08	1.65YrCancerDerived_Inh_FAH3to16	5.14E-08
206	ALL	559491.6	4242827.75	5.12E-08	1.65YrCancerDerived_Inh_FAH3to16	5.12E-08
845	ALL	559671.6	4243107.75	5.12E-08	1.65YrCancerDerived_Inh_FAH3to16	5.12E-08
826	ALL	559191.6	4243107.75	5.11E-08	1.65YrCancerDerived_Inh_FAH3to16	5.11E-08
691	ALL	559231.6	4243047.75	5.11E-08	1.65YrCancerDerived_Inh_FAH3to16	5.11E-08
1496	ALL	559831.6	4243407.75	5.10E-08	1.65YrCancerDerived_Inh_FAH3to16	5.10E-08
1379	ALL	559191.6	4243367.75	5.10E-08	1.65YrCancerDerived_Inh_FAH3to16	5.10E-08
1026	ALL	559711.6	4243187.75	5.09E-08	1.65YrCancerDerived_Inh_FAH3to16	5.09E-08
1836	ALL	559251.6	4243567.75	5.09E-08	1.65YrCancerDerived_Inh_FAH3to16	5.09E-08
915	ALL	559171.6	4243147.75	5.08E-08	1.65YrCancerDerived_Inh_FAH3to16	5.08E-08
936	ALL	559691.6	4243147.75	5.05E-08	1.65YrCancerDerived_Inh_FAH3to16	5.05E-08
2010	ALL	559851.6	4243627.75	5.03E-08	1.65YrCancerDerived_Inh_FAH3to16	5.03E-08
1696	ALL	559231.6	4243507.75	5.03E-08	1.65YrCancerDerived_Inh_FAH3to16	5.03E-08
158	ALL	559431.6	4242807.75	5.02E-08	1.65YrCancerDerived_Inh_FAH3to16	5.02E-08
1635	ALL	559851.6	4243467.75	5.02E-08	1.65YrCancerDerived_Inh_FAH3to16	5.02E-08
524	ALL	559611.6	4242967.75	5.01E-08	1.65YrCancerDerived_Inh_FAH3to16	5.01E-08
2247	ALL	559811.6	4243727.75	5.01E-08	1.65YrCancerDerived_Inh_FAH3to16	5.01E-08
2152	ALL	559831.6	4243687.75	5.00E-08	1.65YrCancerDerived_Inh_FAH3to16	5.00E-08
2076	ALL	559271.6	4243667.75	5.00E-08	1.65YrCancerDerived_Inh_FAH3to16	5.00E-08
157	ALL	559411.6	4242807.75	5.00E-08	1.65YrCancerDerived_Inh_FAH3to16	5.00E-08
1250	ALL	559171.6	4243307.75	4.99E-08	1.65YrCancerDerived_Inh_FAH3to16	4.99E-08
376	ALL	559291.6	4242907.75	4.99E-08	1.65YrCancerDerived_Inh_FAH3to16	4.99E-08
159	ALL	559451.6	4242807.75	4.98E-08	1.65YrCancerDerived_Inh_FAH3to16	4.98E-08
615	ALL	559631.6	4243007.75	4.98E-08	1.65YrCancerDerived_Inh_FAH3to16	4.98E-08
466	ALL	559271.6	4242947.75	4.96E-08	1.65YrCancerDerived_Inh_FAH3to16	4.96E-08
432	ALL	559591.6	4242927.75	4.95E-08	1.65YrCancerDerived_Inh_FAH3to16	4.95E-08
1155	ALL	559751.6	4243247.75	4.94E-08	1.65YrCancerDerived_Inh_FAH3to16	4.94E-08
1649	ALL	559211.6	4243487.75	4.93E-08	1.65YrCancerDerived_Inh_FAH3to16	4.93E-08
243	ALL	559331.6	4242847.75	4.93E-08	1.65YrCancerDerived_Inh_FAH3to16	4.93E-08
2057	ALL	559851.6	4243647.75	4.91E-08	1.65YrCancerDerived_Inh_FAH3to16	4.91E-08
156	ALL	559391.6	4242807.75	4.90E-08	1.65YrCancerDerived_Inh_FAH3to16	4.90E-08
1360	ALL	559811.6	4243347.75	4.89E-08	1.65YrCancerDerived_Inh_FAH3to16	4.89E-08
199	ALL	559351.6	4242827.75	4.89E-08	1.65YrCancerDerived_Inh_FAH3to16	4.89E-08
708	ALL	559651.6	4243047.75	4.88E-08	1.65YrCancerDerived_Inh_FAH3to16	4.88E-08
556	ALL	559251.6	4242987.75	4.87E-08	1.65YrCancerDerived_Inh_FAH3to16	4.87E-08
160	ALL	559471.6	4242807.75	4.86E-08	1.65YrCancerDerived_Inh_FAH3to16	4.86E-08
1589	ALL	559851.6	4243447.75	4.86E-08	1.65YrCancerDerived_Inh_FAH3to16	4.86E-08
287	ALL	559311.6	4242867.75	4.85E-08	1.65YrCancerDerived_Inh_FAH3to16	4.85E-08
207	ALL	559511.6	4242827.75	4.84E-08	1.65YrCancerDerived_Inh_FAH3to16	4.84E-08
2200	ALL	559831.6	4243707.75	4.83E-08	1.65YrCancerDerived_Inh_FAH3to16	4.83E-08

736	ALL	559211.6	4243067.75	4.83E-08	1.65YrCancerDerived_Inh_FAH3to16	4.83E-08
1272	ALL	559791.6	4243307.75	4.82E-08	1.65YrCancerDerived_Inh_FAH3to16	4.82E-08
1450	ALL	559831.6	4243387.75	4.82E-08	1.65YrCancerDerived_Inh_FAH3to16	4.82E-08
870	ALL	559171.6	4243127.75	4.82E-08	1.65YrCancerDerived_Inh_FAH3to16	4.82E-08
1884	ALL	559251.6	4243587.75	4.81E-08	1.65YrCancerDerived_Inh_FAH3to16	4.81E-08
2124	ALL	559271.6	4243687.75	4.79E-08	1.65YrCancerDerived_Inh_FAH3to16	4.79E-08
2105	ALL	559851.6	4243667.75	4.77E-08	1.65YrCancerDerived_Inh_FAH3to16	4.77E-08
1867	ALL	559871.6	4243567.75	4.76E-08	1.65YrCancerDerived_Inh_FAH3to16	4.76E-08
1072	ALL	559731.6	4243207.75	4.76E-08	1.65YrCancerDerived_Inh_FAH3to16	4.76E-08
1819	ALL	559871.6	4243547.75	4.76E-08	1.65YrCancerDerived_Inh_FAH3to16	4.76E-08
1291	ALL	559171.6	4243327.75	4.75E-08	1.65YrCancerDerived_Inh_FAH3to16	4.75E-08
155	ALL	559371.6	4242807.75	4.74E-08	1.65YrCancerDerived_Inh_FAH3to16	4.74E-08
800	ALL	559671.6	4243087.75	4.74E-08	1.65YrCancerDerived_Inh_FAH3to16	4.74E-08
1915	ALL	559871.6	4243587.75	4.73E-08	1.65YrCancerDerived_Inh_FAH3to16	4.73E-08
1774	ALL	559871.6	4243527.75	4.72E-08	1.65YrCancerDerived_Inh_FAH3to16	4.72E-08
161	ALL	559491.6	4242807.75	4.68E-08	1.65YrCancerDerived_Inh_FAH3to16	4.68E-08
1963	ALL	559871.6	4243607.75	4.68E-08	1.65YrCancerDerived_Inh_FAH3to16	4.68E-08
645	ALL	559231.6	4243027.75	4.68E-08	1.65YrCancerDerived_Inh_FAH3to16	4.68E-08
1191	ALL	559771.6	4243267.75	4.67E-08	1.65YrCancerDerived_Inh_FAH3to16	4.67E-08
331	ALL	559291.6	4242887.75	4.66E-08	1.65YrCancerDerived_Inh_FAH3to16	4.66E-08
1543	ALL	559851.6	4243427.75	4.66E-08	1.65YrCancerDerived_Inh_FAH3to16	4.66E-08
2248	ALL	559831.6	4243727.75	4.66E-08	1.65YrCancerDerived_Inh_FAH3to16	4.66E-08
1728	ALL	559871.6	4243507.75	4.65E-08	1.65YrCancerDerived_Inh_FAH3to16	4.65E-08
1048	ALL	559151.6	4243207.75	4.65E-08	1.65YrCancerDerived_Inh_FAH3to16	4.65E-08
478	ALL	559611.6	4242947.75	4.65E-08	1.65YrCancerDerived_Inh_FAH3to16	4.65E-08
981	ALL	559711.6	4243167.75	4.65E-08	1.65YrCancerDerived_Inh_FAH3to16	4.65E-08
421	ALL	559271.6	4242927.75	4.65E-08	1.65YrCancerDerived_Inh_FAH3to16	4.65E-08
891	ALL	559691.6	4243127.75	4.65E-08	1.65YrCancerDerived_Inh_FAH3to16	4.65E-08
1093	ALL	559151.6	4243227.75	4.64E-08	1.65YrCancerDerived_Inh_FAH3to16	4.64E-08
2153	ALL	559851.6	4243687.75	4.63E-08	1.65YrCancerDerived_Inh_FAH3to16	4.63E-08
781	ALL	559191.6	4243087.75	4.63E-08	1.65YrCancerDerived_Inh_FAH3to16	4.63E-08
2172	ALL	559271.6	4243707.75	4.63E-08	1.65YrCancerDerived_Inh_FAH3to16	4.63E-08
570	ALL	559631.6	4242987.75	4.63E-08	1.65YrCancerDerived_Inh_FAH3to16	4.63E-08
1742	ALL	559231.6	4243527.75	4.61E-08	1.65YrCancerDerived_Inh_FAH3to16	4.61E-08
113	ALL	559431.6	4242787.75	4.61E-08	1.65YrCancerDerived_Inh_FAH3to16	4.61E-08
1136	ALL	559151.6	4243247.75	4.61E-08	1.65YrCancerDerived_Inh_FAH3to16	4.61E-08
2011	ALL	559871.6	4243627.75	4.60E-08	1.65YrCancerDerived_Inh_FAH3to16	4.60E-08
112	ALL	559411.6	4242787.75	4.59E-08	1.65YrCancerDerived_Inh_FAH3to16	4.59E-08
1003	ALL	559151.6	4243187.75	4.59E-08	1.65YrCancerDerived_Inh_FAH3to16	4.59E-08
387	ALL	559591.6	4242907.75	4.59E-08	1.65YrCancerDerived_Inh_FAH3to16	4.59E-08
1932	ALL	559251.6	4243607.75	4.59E-08	1.65YrCancerDerived_Inh_FAH3to16	4.59E-08
114	ALL	559451.6	4242787.75	4.57E-08	1.65YrCancerDerived_Inh_FAH3to16	4.57E-08
198	ALL	559331.6	4242827.75	4.56E-08	1.65YrCancerDerived_Inh_FAH3to16	4.56E-08
1682	ALL	559871.6	4243487.75	4.55E-08	1.65YrCancerDerived_Inh_FAH3to16	4.55E-08
510	ALL	559251.6	4242967.75	4.55E-08	1.65YrCancerDerived_Inh_FAH3to16	4.55E-08
1175	ALL	559151.6	4243267.75	4.54E-08	1.65YrCancerDerived_Inh_FAH3to16	4.54E-08
662	ALL	559651.6	4243027.75	4.54E-08	1.65YrCancerDerived_Inh_FAH3to16	4.54E-08
1405	ALL	559831.6	4243367.75	4.53E-08	1.65YrCancerDerived_Inh_FAH3to16	4.53E-08
242	ALL	559311.6	4242847.75	4.52E-08	1.65YrCancerDerived_Inh_FAH3to16	4.52E-08
208	ALL	559531.6	4242827.75	4.52E-08	1.65YrCancerDerived_Inh_FAH3to16	4.52E-08
111	ALL	559391.6	4242787.75	4.52E-08	1.65YrCancerDerived_Inh_FAH3to16	4.52E-08
1316	ALL	559811.6	4243327.75	4.52E-08	1.65YrCancerDerived_Inh_FAH3to16	4.52E-08
2058	ALL	559871.6	4243647.75	4.51E-08	1.65YrCancerDerived_Inh_FAH3to16	4.51E-08
154	ALL	559351.6	4242807.75	4.51E-08	1.65YrCancerDerived_Inh_FAH3to16	4.51E-08
959	ALL	559151.6	4243167.75	4.51E-08	1.65YrCancerDerived_Inh_FAH3to16	4.51E-08
1334	ALL	559171.6	4243347.75	4.51E-08	1.65YrCancerDerived_Inh_FAH3to16	4.51E-08
2201	ALL	559851.6	4243707.75	4.48E-08	1.65YrCancerDerived_Inh_FAH3to16	4.48E-08
1116	ALL	559751.6	4243227.75	4.48E-08	1.65YrCancerDerived_Inh_FAH3to16	4.48E-08
825	ALL	559171.6	4243107.75	4.47E-08	1.65YrCancerDerived_Inh_FAH3to16	4.47E-08
115	ALL	559471.6	4242787.75	4.46E-08	1.65YrCancerDerived_Inh_FAH3to16	4.46E-08
2220	ALL	559271.6	4243727.75	4.46E-08	1.65YrCancerDerived_Inh_FAH3to16	4.46E-08
162	ALL	559511.6	4242807.75	4.45E-08	1.65YrCancerDerived_Inh_FAH3to16	4.45E-08
1497	ALL	559851.6	4243407.75	4.44E-08	1.65YrCancerDerived_Inh_FAH3to16	4.44E-08
1636	ALL	559871.6	4243467.75	4.42E-08	1.65YrCancerDerived_Inh_FAH3to16	4.42E-08
690	ALL	559211.6	4243047.75	4.42E-08	1.65YrCancerDerived_Inh_FAH3to16	4.42E-08
755	ALL	559671.6	4243067.75	4.41E-08	1.65YrCancerDerived_Inh_FAH3to16	4.41E-08
1210	ALL	559151.6	4243287.75	4.41E-08	1.65YrCancerDerived_Inh_FAH3to16	4.41E-08
1231	ALL	559791.6	4243287.75	4.41E-08	1.65YrCancerDerived_Inh_FAH3to16	4.41E-08
914	ALL	559151.6	4243147.75	4.41E-08	1.65YrCancerDerived_Inh_FAH3to16	4.41E-08
2106	ALL	559871.6	4243667.75	4.41E-08	1.65YrCancerDerived_Inh_FAH3to16	4.41E-08
600	ALL	559231.6	4243007.75	4.40E-08	1.65YrCancerDerived_Inh_FAH3to16	4.40E-08
1980	ALL	559251.6	4243627.75	4.39E-08	1.65YrCancerDerived_Inh_FAH3to16	4.39E-08
110	ALL	559371.6	4242787.75	4.38E-08	1.65YrCancerDerived_Inh_FAH3to16	4.38E-08
375	ALL	559271.6	4242907.75	4.38E-08	1.65YrCancerDerived_Inh_FAH3to16	4.38E-08

286	ALL	559291.6	4242867.75	4.37E-08	1.65YrCancerDerived_Inh_FAH3to16	4.37E-08
1787	ALL	559231.6	4243547.75	4.35E-08	1.65YrCancerDerived_Inh_FAH3to16	4.35E-08
2249	ALL	559851.6	4243727.75	4.34E-08	1.65YrCancerDerived_Inh_FAH3to16	4.34E-08
1027	ALL	559731.6	4243187.75	4.34E-08	1.65YrCancerDerived_Inh_FAH3to16	4.34E-08
433	ALL	559611.6	4242927.75	4.33E-08	1.65YrCancerDerived_Inh_FAH3to16	4.33E-08
525	ALL	559631.6	4242967.75	4.32E-08	1.65YrCancerDerived_Inh_FAH3to16	4.32E-08
116	ALL	559491.6	4242787.75	4.31E-08	1.65YrCancerDerived_Inh_FAH3to16	4.31E-08
846	ALL	559691.6	4243107.75	4.30E-08	1.65YrCancerDerived_Inh_FAH3to16	4.30E-08
1868	ALL	559891.6	4243567.75	4.29E-08	1.65YrCancerDerived_Inh_FAH3to16	4.29E-08
2154	ALL	559871.6	4243687.75	4.29E-08	1.65YrCancerDerived_Inh_FAH3to16	4.29E-08
1916	ALL	559891.6	4243587.75	4.29E-08	1.65YrCancerDerived_Inh_FAH3to16	4.29E-08
465	ALL	559251.6	4242947.75	4.28E-08	1.65YrCancerDerived_Inh_FAH3to16	4.28E-08
937	ALL	559711.6	4243147.75	4.28E-08	1.65YrCancerDerived_Inh_FAH3to16	4.28E-08
1820	ALL	559891.6	4243547.75	4.27E-08	1.65YrCancerDerived_Inh_FAH3to16	4.27E-08
1590	ALL	559871.6	4243447.75	4.27E-08	1.65YrCancerDerived_Inh_FAH3to16	4.27E-08
1964	ALL	559891.6	4243607.75	4.26E-08	1.65YrCancerDerived_Inh_FAH3to16	4.26E-08
1378	ALL	559171.6	4243367.75	4.26E-08	1.65YrCancerDerived_Inh_FAH3to16	4.26E-08
2027	ALL	559251.6	4243647.75	4.26E-08	1.65YrCancerDerived_Inh_FAH3to16	4.26E-08
1249	ALL	559151.6	4243307.75	4.26E-08	1.65YrCancerDerived_Inh_FAH3to16	4.26E-08
68	ALL	559431.6	4242767.75	4.25E-08	1.65YrCancerDerived_Inh_FAH3to16	4.25E-08
1156	ALL	559771.6	4243247.75	4.25E-08	1.65YrCancerDerived_Inh_FAH3to16	4.25E-08
67	ALL	559411.6	4242767.75	4.25E-08	1.65YrCancerDerived_Inh_FAH3to16	4.25E-08
153	ALL	559331.6	4242807.75	4.24E-08	1.65YrCancerDerived_Inh_FAH3to16	4.24E-08
1695	ALL	559211.6	4243507.75	4.24E-08	1.65YrCancerDerived_Inh_FAH3to16	4.24E-08
616	ALL	559651.6	4243007.75	4.24E-08	1.65YrCancerDerived_Inh_FAH3to16	4.24E-08
1361	ALL	559831.6	4243347.75	4.23E-08	1.65YrCancerDerived_Inh_FAH3to16	4.23E-08
1775	ALL	559891.6	4243527.75	4.22E-08	1.65YrCancerDerived_Inh_FAH3to16	4.22E-08
197	ALL	559311.6	4242827.75	4.22E-08	1.65YrCancerDerived_Inh_FAH3to16	4.22E-08
2012	ALL	559891.6	4243627.75	4.22E-08	1.65YrCancerDerived_Inh_FAH3to16	4.22E-08
69	ALL	559451.6	4242767.75	4.21E-08	1.65YrCancerDerived_Inh_FAH3to16	4.21E-08
869	ALL	559151.6	4243127.75	4.21E-08	1.65YrCancerDerived_Inh_FAH3to16	4.21E-08
735	ALL	559191.6	4243067.75	4.20E-08	1.65YrCancerDerived_Inh_FAH3to16	4.20E-08
1451	ALL	559851.6	4243387.75	4.20E-08	1.65YrCancerDerived_Inh_FAH3to16	4.20E-08
109	ALL	559351.6	4242787.75	4.20E-08	1.65YrCancerDerived_Inh_FAH3to16	4.20E-08
66	ALL	559391.6	4242767.75	4.18E-08	1.65YrCancerDerived_Inh_FAH3to16	4.18E-08
163	ALL	559531.6	4242807.75	4.18E-08	1.65YrCancerDerived_Inh_FAH3to16	4.18E-08
2202	ALL	559871.6	4243707.75	4.17E-08	1.65YrCancerDerived_Inh_FAH3to16	4.17E-08
1273	ALL	559811.6	4243307.75	4.16E-08	1.65YrCancerDerived_Inh_FAH3to16	4.16E-08
555	ALL	559231.6	4242987.75	4.15E-08	1.65YrCancerDerived_Inh_FAH3to16	4.15E-08
2059	ALL	559891.6	4243647.75	4.15E-08	1.65YrCancerDerived_Inh_FAH3to16	4.15E-08
1729	ALL	559891.6	4243507.75	4.14E-08	1.65YrCancerDerived_Inh_FAH3to16	4.14E-08
330	ALL	559271.6	4242887.75	4.13E-08	1.65YrCancerDerived_Inh_FAH3to16	4.13E-08
1835	ALL	559231.6	4243567.75	4.13E-08	1.65YrCancerDerived_Inh_FAH3to16	4.13E-08
709	ALL	559671.6	4243047.75	4.12E-08	1.65YrCancerDerived_Inh_FAH3to16	4.12E-08
70	ALL	559471.6	4242767.75	4.12E-08	1.65YrCancerDerived_Inh_FAH3to16	4.12E-08
241	ALL	559291.6	4242847.75	4.11E-08	1.65YrCancerDerived_Inh_FAH3to16	4.11E-08
2075	ALL	559251.6	4243667.75	4.11E-08	1.65YrCancerDerived_Inh_FAH3to16	4.11E-08
117	ALL	559511.6	4242787.75	4.11E-08	1.65YrCancerDerived_Inh_FAH3to16	4.11E-08
780	ALL	559171.6	4243087.75	4.10E-08	1.65YrCancerDerived_Inh_FAH3to16	4.10E-08
1544	ALL	559871.6	4243427.75	4.09E-08	1.65YrCancerDerived_Inh_FAH3to16	4.09E-08
1073	ALL	559751.6	4243207.75	4.09E-08	1.65YrCancerDerived_Inh_FAH3to16	4.09E-08
1290	ALL	559151.6	4243327.75	4.08E-08	1.65YrCancerDerived_Inh_FAH3to16	4.08E-08
2107	ALL	559891.6	4243667.75	4.07E-08	1.65YrCancerDerived_Inh_FAH3to16	4.07E-08
1422	ALL	559171.6	4243387.75	4.07E-08	1.65YrCancerDerived_Inh_FAH3to16	4.07E-08
65	ALL	559371.6	4242767.75	4.06E-08	1.65YrCancerDerived_Inh_FAH3to16	4.06E-08
644	ALL	559211.6	4243027.75	4.05E-08	1.65YrCancerDerived_Inh_FAH3to16	4.05E-08
2250	ALL	559871.6	4243727.75	4.05E-08	1.65YrCancerDerived_Inh_FAH3to16	4.05E-08
388	ALL	559611.6	4242907.75	4.04E-08	1.65YrCancerDerived_Inh_FAH3to16	4.04E-08
1683	ALL	559891.6	4243487.75	4.04E-08	1.65YrCancerDerived_Inh_FAH3to16	4.04E-08
479	ALL	559631.6	4242947.75	4.04E-08	1.65YrCancerDerived_Inh_FAH3to16	4.04E-08
420	ALL	559251.6	4242927.75	4.04E-08	1.65YrCancerDerived_Inh_FAH3to16	4.04E-08
1092	ALL	559131.6	4243227.75	4.03E-08	1.65YrCancerDerived_Inh_FAH3to16	4.03E-08
1047	ALL	559131.6	4243207.75	4.03E-08	1.65YrCancerDerived_Inh_FAH3to16	4.03E-08
1192	ALL	559791.6	4243267.75	4.03E-08	1.65YrCancerDerived_Inh_FAH3to16	4.03E-08
801	ALL	559691.6	4243087.75	4.01E-08	1.65YrCancerDerived_Inh_FAH3to16	4.01E-08
71	ALL	559491.6	4242767.75	3.98E-08	1.65YrCancerDerived_Inh_FAH3to16	3.98E-08
2155	ALL	559891.6	4243687.75	3.98E-08	1.65YrCancerDerived_Inh_FAH3to16	3.98E-08
982	ALL	559731.6	4243167.75	3.98E-08	1.65YrCancerDerived_Inh_FAH3to16	3.98E-08
1135	ALL	559131.6	4243247.75	3.98E-08	1.65YrCancerDerived_Inh_FAH3to16	3.98E-08
824	ALL	559151.6	4243107.75	3.97E-08	1.65YrCancerDerived_Inh_FAH3to16	3.97E-08
571	ALL	559651.6	4242987.75	3.97E-08	1.65YrCancerDerived_Inh_FAH3to16	3.97E-08
1002	ALL	559131.6	4243187.75	3.97E-08	1.65YrCancerDerived_Inh_FAH3to16	3.97E-08
108	ALL	559331.6	4242787.75	3.96E-08	1.65YrCancerDerived_Inh_FAH3to16	3.96E-08
152	ALL	559311.6	4242807.75	3.95E-08	1.65YrCancerDerived_Inh_FAH3to16	3.95E-08

2123	ALL	559251.6	4243687.75	3.95E-08	1.65YrCancerDerived_Inh_FAH3to16	3.95E-08
892	ALL	559711.6	4243127.75	3.95E-08	1.65YrCancerDerived_Inh_FAH3to16	3.95E-08
1406	ALL	559851.6	4243367.75	3.95E-08	1.65YrCancerDerived_Inh_FAH3to16	3.95E-08
23	ALL	559431.6	4242747.75	3.93E-08	1.65YrCancerDerived_Inh_FAH3to16	3.93E-08
22	ALL	559411.6	4242747.75	3.93E-08	1.65YrCancerDerived_Inh_FAH3to16	3.93E-08
1317	ALL	559831.6	4243327.75	3.92E-08	1.65YrCancerDerived_Inh_FAH3to16	3.92E-08
1174	ALL	559131.6	4243267.75	3.91E-08	1.65YrCancerDerived_Inh_FAH3to16	3.91E-08
1637	ALL	559891.6	4243467.75	3.91E-08	1.65YrCancerDerived_Inh_FAH3to16	3.91E-08
1467	ALL	559171.6	4243407.75	3.91E-08	1.65YrCancerDerived_Inh_FAH3to16	3.91E-08
1883	ALL	559231.6	4243587.75	3.91E-08	1.65YrCancerDerived_Inh_FAH3to16	3.91E-08
285	ALL	559271.6	4242867.75	3.91E-08	1.65YrCancerDerived_Inh_FAH3to16	3.91E-08
509	ALL	559231.6	4242967.75	3.91E-08	1.65YrCancerDerived_Inh_FAH3to16	3.91E-08
64	ALL	559351.6	4242767.75	3.90E-08	1.65YrCancerDerived_Inh_FAH3to16	3.90E-08
1917	ALL	559911.6	4243587.75	3.90E-08	1.65YrCancerDerived_Inh_FAH3to16	3.90E-08
24	ALL	559451.6	4242747.75	3.89E-08	1.65YrCancerDerived_Inh_FAH3to16	3.89E-08
1498	ALL	559871.6	4243407.75	3.89E-08	1.65YrCancerDerived_Inh_FAH3to16	3.89E-08
1965	ALL	559911.6	4243607.75	3.89E-08	1.65YrCancerDerived_Inh_FAH3to16	3.89E-08
958	ALL	559131.6	4243167.75	3.89E-08	1.65YrCancerDerived_Inh_FAH3to16	3.89E-08
1869	ALL	559911.6	4243567.75	3.88E-08	1.65YrCancerDerived_Inh_FAH3to16	3.88E-08
21	ALL	559391.6	4242747.75	3.88E-08	1.65YrCancerDerived_Inh_FAH3to16	3.88E-08
2203	ALL	559891.6	4243707.75	3.88E-08	1.65YrCancerDerived_Inh_FAH3to16	3.88E-08
689	ALL	559191.6	4243047.75	3.88E-08	1.65YrCancerDerived_Inh_FAH3to16	3.88E-08
164	ALL	559551.6	4242807.75	3.88E-08	1.65YrCancerDerived_Inh_FAH3to16	3.88E-08
118	ALL	559531.6	4242787.75	3.87E-08	1.65YrCancerDerived_Inh_FAH3to16	3.87E-08
1117	ALL	559771.6	4243227.75	3.87E-08	1.65YrCancerDerived_Inh_FAH3to16	3.87E-08
663	ALL	559671.6	4243027.75	3.86E-08	1.65YrCancerDerived_Inh_FAH3to16	3.86E-08
196	ALL	559291.6	4242827.75	3.86E-08	1.65YrCancerDerived_Inh_FAH3to16	3.86E-08
1333	ALL	559151.6	4243347.75	3.86E-08	1.65YrCancerDerived_Inh_FAH3to16	3.86E-08
2013	ALL	559911.6	4243627.75	3.86E-08	1.65YrCancerDerived_Inh_FAH3to16	3.86E-08
1821	ALL	559911.6	4243547.75	3.84E-08	1.65YrCancerDerived_Inh_FAH3to16	3.84E-08
1741	ALL	559211.6	4243527.75	3.84E-08	1.65YrCancerDerived_Inh_FAH3to16	3.84E-08
2171	ALL	559251.6	4243707.75	3.84E-08	1.65YrCancerDerived_Inh_FAH3to16	3.84E-08
374	ALL	559251.6	4242907.75	3.83E-08	1.65YrCancerDerived_Inh_FAH3to16	3.83E-08
1232	ALL	559811.6	4243287.75	3.82E-08	1.65YrCancerDerived_Inh_FAH3to16	3.82E-08
2060	ALL	559911.6	4243647.75	3.82E-08	1.65YrCancerDerived_Inh_FAH3to16	3.82E-08
913	ALL	559131.6	4243147.75	3.82E-08	1.65YrCancerDerived_Inh_FAH3to16	3.82E-08
25	ALL	559471.6	4242747.75	3.81E-08	1.65YrCancerDerived_Inh_FAH3to16	3.81E-08
1209	ALL	559131.6	4243287.75	3.81E-08	1.65YrCancerDerived_Inh_FAH3to16	3.81E-08
72	ALL	559511.6	4242767.75	3.80E-08	1.65YrCancerDerived_Inh_FAH3to16	3.80E-08
434	ALL	559631.6	4242927.75	3.79E-08	1.65YrCancerDerived_Inh_FAH3to16	3.79E-08
599	ALL	559211.6	4243007.75	3.78E-08	1.65YrCancerDerived_Inh_FAH3to16	3.78E-08
1776	ALL	559911.6	4243527.75	3.78E-08	1.65YrCancerDerived_Inh_FAH3to16	3.78E-08
342	ALL	559611.6	4242887.75	3.78E-08	1.65YrCancerDerived_Inh_FAH3to16	3.78E-08
20	ALL	559371.6	4242747.75	3.78E-08	1.65YrCancerDerived_Inh_FAH3to16	3.78E-08
2251	ALL	559891.6	4243727.75	3.77E-08	1.65YrCancerDerived_Inh_FAH3to16	3.77E-08
1591	ALL	559891.6	4243447.75	3.77E-08	1.65YrCancerDerived_Inh_FAH3to16	3.77E-08
2108	ALL	559911.6	4243667.75	3.76E-08	1.65YrCancerDerived_Inh_FAH3to16	3.76E-08
734	ALL	559171.6	4243067.75	3.76E-08	1.65YrCancerDerived_Inh_FAH3to16	3.76E-08
756	ALL	559691.6	4243067.75	3.75E-08	1.65YrCancerDerived_Inh_FAH3to16	3.75E-08
1028	ALL	559751.6	4243187.75	3.74E-08	1.65YrCancerDerived_Inh_FAH3to16	3.74E-08
1931	ALL	559231.6	4243607.75	3.74E-08	1.65YrCancerDerived_Inh_FAH3to16	3.74E-08
526	ALL	559651.6	4242967.75	3.73E-08	1.65YrCancerDerived_Inh_FAH3to16	3.73E-08
868	ALL	559131.6	4243127.75	3.73E-08	1.65YrCancerDerived_Inh_FAH3to16	3.73E-08
779	ALL	559151.6	4243087.75	3.72E-08	1.65YrCancerDerived_Inh_FAH3to16	3.72E-08
2219	ALL	559251.6	4243727.75	3.71E-08	1.65YrCancerDerived_Inh_FAH3to16	3.71E-08
107	ALL	559311.6	4242787.75	3.71E-08	1.65YrCancerDerived_Inh_FAH3to16	3.71E-08
63	ALL	559331.6	4242767.75	3.71E-08	1.65YrCancerDerived_Inh_FAH3to16	3.71E-08
1730	ALL	559911.6	4243507.75	3.70E-08	1.65YrCancerDerived_Inh_FAH3to16	3.70E-08
240	ALL	559271.6	4242847.75	3.70E-08	1.65YrCancerDerived_Inh_FAH3to16	3.70E-08
26	ALL	559491.6	4242747.75	3.69E-08	1.65YrCancerDerived_Inh_FAH3to16	3.69E-08
464	ALL	559231.6	4242947.75	3.69E-08	1.65YrCancerDerived_Inh_FAH3to16	3.69E-08
1362	ALL	559851.6	4243347.75	3.69E-08	1.65YrCancerDerived_Inh_FAH3to16	3.69E-08
2156	ALL	559911.6	4243687.75	3.69E-08	1.65YrCancerDerived_Inh_FAH3to16	3.69E-08
1157	ALL	559791.6	4243247.75	3.68E-08	1.65YrCancerDerived_Inh_FAH3to16	3.68E-08
1452	ALL	559871.6	4243387.75	3.68E-08	1.65YrCancerDerived_Inh_FAH3to16	3.68E-08
1248	ALL	559131.6	4243307.75	3.67E-08	1.65YrCancerDerived_Inh_FAH3to16	3.67E-08
938	ALL	559731.6	4243147.75	3.67E-08	1.65YrCancerDerived_Inh_FAH3to16	3.67E-08
847	ALL	559711.6	4243107.75	3.67E-08	1.65YrCancerDerived_Inh_FAH3to16	3.67E-08
1377	ALL	559151.6	4243367.75	3.66E-08	1.65YrCancerDerived_Inh_FAH3to16	3.66E-08
19	ALL	559351.6	4242747.75	3.64E-08	1.65YrCancerDerived_Inh_FAH3to16	3.64E-08
329	ALL	559251.6	4242887.75	3.64E-08	1.65YrCancerDerived_Inh_FAH3to16	3.64E-08
151	ALL	559291.6	4242807.75	3.64E-08	1.65YrCancerDerived_Inh_FAH3to16	3.64E-08
617	ALL	559671.6	4243007.75	3.63E-08	1.65YrCancerDerived_Inh_FAH3to16	3.63E-08
1274	ALL	559831.6	4243307.75	3.63E-08	1.65YrCancerDerived_Inh_FAH3to16	3.63E-08

119	ALL	559551.6	4242787.75	3.61E-08	1.65YrCancerDerived_Inh_FAH3to16	3.61E-08
1786	ALL	559211.6	4243547.75	3.61E-08	1.65YrCancerDerived_Inh_FAH3to16	3.61E-08
2204	ALL	559911.6	4243707.75	3.61E-08	1.65YrCancerDerived_Inh_FAH3to16	3.61E-08
1545	ALL	559891.6	4243427.75	3.61E-08	1.65YrCancerDerived_Inh_FAH3to16	3.61E-08
1979	ALL	559231.6	4243627.75	3.60E-08	1.65YrCancerDerived_Inh_FAH3to16	3.60E-08
73	ALL	559531.6	4242767.75	3.60E-08	1.65YrCancerDerived_Inh_FAH3to16	3.60E-08
1684	ALL	559911.6	4243487.75	3.60E-08	1.65YrCancerDerived_Inh_FAH3to16	3.60E-08
554	ALL	559211.6	4242987.75	3.58E-08	1.65YrCancerDerived_Inh_FAH3to16	3.58E-08
643	ALL	559191.6	4243027.75	3.58E-08	1.65YrCancerDerived_Inh_FAH3to16	3.58E-08
823	ALL	559131.6	4243107.75	3.58E-08	1.65YrCancerDerived_Inh_FAH3to16	3.58E-08
389	ALL	559631.6	4242907.75	3.56E-08	1.65YrCancerDerived_Inh_FAH3to16	3.56E-08
1966	ALL	559931.6	4243607.75	3.55E-08	1.65YrCancerDerived_Inh_FAH3to16	3.55E-08
1074	ALL	559771.6	4243207.75	3.54E-08	1.65YrCancerDerived_Inh_FAH3to16	3.54E-08
1918	ALL	559931.6	4243587.75	3.54E-08	1.65YrCancerDerived_Inh_FAH3to16	3.54E-08
2014	ALL	559931.6	4243627.75	3.54E-08	1.65YrCancerDerived_Inh_FAH3to16	3.54E-08
27	ALL	559511.6	4242747.75	3.54E-08	1.65YrCancerDerived_Inh_FAH3to16	3.54E-08
1289	ALL	559131.6	4243327.75	3.54E-08	1.65YrCancerDerived_Inh_FAH3to16	3.54E-08
1046	ALL	559111.6	4243207.75	3.53E-08	1.65YrCancerDerived_Inh_FAH3to16	3.53E-08
2252	ALL	559911.6	4243727.75	3.52E-08	1.65YrCancerDerived_Inh_FAH3to16	3.52E-08
710	ALL	559691.6	4243047.75	3.52E-08	1.65YrCancerDerived_Inh_FAH3to16	3.52E-08
1091	ALL	559111.6	4243227.75	3.52E-08	1.65YrCancerDerived_Inh_FAH3to16	3.52E-08
2061	ALL	559931.6	4243647.75	3.52E-08	1.65YrCancerDerived_Inh_FAH3to16	3.52E-08
1870	ALL	559931.6	4243567.75	3.52E-08	1.65YrCancerDerived_Inh_FAH3to16	3.52E-08
480	ALL	559651.6	4242947.75	3.51E-08	1.65YrCancerDerived_Inh_FAH3to16	3.51E-08
1193	ALL	559811.6	4243267.75	3.51E-08	1.65YrCancerDerived_Inh_FAH3to16	3.51E-08
2026	ALL	559231.6	4243647.75	3.51E-08	1.65YrCancerDerived_Inh_FAH3to16	3.51E-08
419	ALL	559231.6	4242927.75	3.51E-08	1.65YrCancerDerived_Inh_FAH3to16	3.51E-08
62	ALL	559311.6	4242767.75	3.49E-08	1.65YrCancerDerived_Inh_FAH3to16	3.49E-08
195	ALL	559271.6	4242827.75	3.49E-08	1.65YrCancerDerived_Inh_FAH3to16	3.49E-08
1638	ALL	559911.6	4243467.75	3.48E-08	1.65YrCancerDerived_Inh_FAH3to16	3.48E-08
18	ALL	559331.6	4242747.75	3.48E-08	1.65YrCancerDerived_Inh_FAH3to16	3.48E-08
2109	ALL	559931.6	4243667.75	3.48E-08	1.65YrCancerDerived_Inh_FAH3to16	3.48E-08
1001	ALL	559111.6	4243187.75	3.47E-08	1.65YrCancerDerived_Inh_FAH3to16	3.47E-08
1822	ALL	559931.6	4243547.75	3.47E-08	1.65YrCancerDerived_Inh_FAH3to16	3.47E-08
284	ALL	559251.6	4242867.75	3.47E-08	1.65YrCancerDerived_Inh_FAH3to16	3.47E-08
1134	ALL	559111.6	4243247.75	3.47E-08	1.65YrCancerDerived_Inh_FAH3to16	3.47E-08
1407	ALL	559871.6	4243367.75	3.46E-08	1.65YrCancerDerived_Inh_FAH3to16	3.46E-08
1421	ALL	559151.6	4243387.75	3.46E-08	1.65YrCancerDerived_Inh_FAH3to16	3.46E-08
688	ALL	559171.6	4243047.75	3.46E-08	1.65YrCancerDerived_Inh_FAH3to16	3.46E-08
983	ALL	559751.6	4243167.75	3.44E-08	1.65YrCancerDerived_Inh_FAH3to16	3.44E-08
106	ALL	559291.6	4242787.75	3.44E-08	1.65YrCancerDerived_Inh_FAH3to16	3.44E-08
733	ALL	559151.6	4243067.75	3.44E-08	1.65YrCancerDerived_Inh_FAH3to16	3.44E-08
1318	ALL	559851.6	4243327.75	3.43E-08	1.65YrCancerDerived_Inh_FAH3to16	3.43E-08
1499	ALL	559891.6	4243407.75	3.43E-08	1.65YrCancerDerived_Inh_FAH3to16	3.43E-08
802	ALL	559711.6	4243087.75	3.43E-08	1.65YrCancerDerived_Inh_FAH3to16	3.43E-08
572	ALL	559671.6	4242987.75	3.42E-08	1.65YrCancerDerived_Inh_FAH3to16	3.42E-08
2157	ALL	559931.6	4243687.75	3.42E-08	1.65YrCancerDerived_Inh_FAH3to16	3.42E-08
1173	ALL	559111.6	4243267.75	3.41E-08	1.65YrCancerDerived_Inh_FAH3to16	3.41E-08
1777	ALL	559931.6	4243527.75	3.40E-08	1.65YrCancerDerived_Inh_FAH3to16	3.40E-08
957	ALL	559111.6	4243167.75	3.40E-08	1.65YrCancerDerived_Inh_FAH3to16	3.40E-08
1834	ALL	559211.6	4243567.75	3.40E-08	1.65YrCancerDerived_Inh_FAH3to16	3.40E-08
893	ALL	559731.6	4243127.75	3.40E-08	1.65YrCancerDerived_Inh_FAH3to16	3.40E-08
508	ALL	559211.6	4242967.75	3.39E-08	1.65YrCancerDerived_Inh_FAH3to16	3.39E-08
74	ALL	559551.6	4242767.75	3.38E-08	1.65YrCancerDerived_Inh_FAH3to16	3.38E-08
1118	ALL	559791.6	4243227.75	3.37E-08	1.65YrCancerDerived_Inh_FAH3to16	3.37E-08
2074	ALL	559231.6	4243667.75	3.37E-08	1.65YrCancerDerived_Inh_FAH3to16	3.37E-08
1332	ALL	559131.6	4243347.75	3.36E-08	1.65YrCancerDerived_Inh_FAH3to16	3.36E-08
2205	ALL	559931.6	4243707.75	3.36E-08	1.65YrCancerDerived_Inh_FAH3to16	3.36E-08
778	ALL	559131.6	4243087.75	3.36E-08	1.65YrCancerDerived_Inh_FAH3to16	3.36E-08
28	ALL	559531.6	4242747.75	3.35E-08	1.65YrCancerDerived_Inh_FAH3to16	3.35E-08
343	ALL	559631.6	4242887.75	3.35E-08	1.65YrCancerDerived_Inh_FAH3to16	3.35E-08
1592	ALL	559911.6	4243447.75	3.35E-08	1.65YrCancerDerived_Inh_FAH3to16	3.35E-08
373	ALL	559231.6	4242907.75	3.35E-08	1.65YrCancerDerived_Inh_FAH3to16	3.35E-08
1233	ALL	559831.6	4243287.75	3.34E-08	1.65YrCancerDerived_Inh_FAH3to16	3.34E-08
912	ALL	559111.6	4243147.75	3.34E-08	1.65YrCancerDerived_Inh_FAH3to16	3.34E-08
1731	ALL	559931.6	4243507.75	3.32E-08	1.65YrCancerDerived_Inh_FAH3to16	3.32E-08
598	ALL	559191.6	4243007.75	3.32E-08	1.65YrCancerDerived_Inh_FAH3to16	3.32E-08
664	ALL	559691.6	4243027.75	3.32E-08	1.65YrCancerDerived_Inh_FAH3to16	3.32E-08
1208	ALL	559111.6	4243287.75	3.32E-08	1.65YrCancerDerived_Inh_FAH3to16	3.32E-08
435	ALL	559651.6	4242927.75	3.31E-08	1.65YrCancerDerived_Inh_FAH3to16	3.31E-08
150	ALL	559271.6	4242807.75	3.31E-08	1.65YrCancerDerived_Inh_FAH3to16	3.31E-08
239	ALL	559251.6	4242847.75	3.30E-08	1.65YrCancerDerived_Inh_FAH3to16	3.30E-08
2253	ALL	559931.6	4243727.75	3.29E-08	1.65YrCancerDerived_Inh_FAH3to16	3.29E-08
17	ALL	559311.6	4242747.75	3.29E-08	1.65YrCancerDerived_Inh_FAH3to16	3.29E-08

1466	ALL	559151.6	4243407.75	3.29E-08	1.65YrCancerDerived_Inh_FAH3to16	3.29E-08
867	ALL	559111.6	4243127.75	3.28E-08	1.65YrCancerDerived_Inh_FAH3to16	3.28E-08
2122	ALL	559231.6	4243687.75	3.27E-08	1.65YrCancerDerived_Inh_FAH3to16	3.27E-08
1029	ALL	559771.6	4243187.75	3.26E-08	1.65YrCancerDerived_Inh_FAH3to16	3.26E-08
61	ALL	559291.6	4242767.75	3.25E-08	1.65YrCancerDerived_Inh_FAH3to16	3.25E-08
2015	ALL	559951.6	4243627.75	3.25E-08	1.65YrCancerDerived_Inh_FAH3to16	3.25E-08
1453	ALL	559891.6	4243387.75	3.25E-08	1.65YrCancerDerived_Inh_FAH3to16	3.25E-08
1967	ALL	559951.6	4243607.75	3.25E-08	1.65YrCancerDerived_Inh_FAH3to16	3.25E-08
1882	ALL	559211.6	4243587.75	3.24E-08	1.65YrCancerDerived_Inh_FAH3to16	3.24E-08
1363	ALL	559871.6	4243347.75	3.24E-08	1.65YrCancerDerived_Inh_FAH3to16	3.24E-08
2062	ALL	559951.6	4243647.75	3.24E-08	1.65YrCancerDerived_Inh_FAH3to16	3.24E-08
527	ALL	559671.6	4242967.75	3.24E-08	1.65YrCancerDerived_Inh_FAH3to16	3.24E-08
1919	ALL	559951.6	4243587.75	3.23E-08	1.65YrCancerDerived_Inh_FAH3to16	3.23E-08
1158	ALL	559811.6	4243247.75	3.22E-08	1.65YrCancerDerived_Inh_FAH3to16	3.22E-08
1685	ALL	559931.6	4243487.75	3.22E-08	1.65YrCancerDerived_Inh_FAH3to16	3.22E-08
757	ALL	559711.6	4243067.75	3.22E-08	1.65YrCancerDerived_Inh_FAH3to16	3.22E-08
2110	ALL	559951.6	4243667.75	3.21E-08	1.65YrCancerDerived_Inh_FAH3to16	3.21E-08
1247	ALL	559111.6	4243307.75	3.21E-08	1.65YrCancerDerived_Inh_FAH3to16	3.21E-08
463	ALL	559211.6	4242947.75	3.21E-08	1.65YrCancerDerived_Inh_FAH3to16	3.21E-08
1740	ALL	559191.6	4243527.75	3.20E-08	1.65YrCancerDerived_Inh_FAH3to16	3.20E-08
642	ALL	559171.6	4243027.75	3.20E-08	1.65YrCancerDerived_Inh_FAH3to16	3.20E-08
1546	ALL	559911.6	4243427.75	3.20E-08	1.65YrCancerDerived_Inh_FAH3to16	3.20E-08
328	ALL	559231.6	4242887.75	3.20E-08	1.65YrCancerDerived_Inh_FAH3to16	3.20E-08
1871	ALL	559951.6	4243567.75	3.19E-08	1.65YrCancerDerived_Inh_FAH3to16	3.19E-08
939	ALL	559751.6	4243147.75	3.19E-08	1.65YrCancerDerived_Inh_FAH3to16	3.19E-08
1275	ALL	559851.6	4243307.75	3.18E-08	1.65YrCancerDerived_Inh_FAH3to16	3.18E-08
822	ALL	559111.6	4243107.75	3.18E-08	1.65YrCancerDerived_Inh_FAH3to16	3.18E-08
2170	ALL	559231.6	4243707.75	3.18E-08	1.65YrCancerDerived_Inh_FAH3to16	3.18E-08
2158	ALL	559951.6	4243687.75	3.18E-08	1.65YrCancerDerived_Inh_FAH3to16	3.18E-08
1376	ALL	559131.6	4243367.75	3.17E-08	1.65YrCancerDerived_Inh_FAH3to16	3.17E-08
848	ALL	559731.6	4243107.75	3.17E-08	1.65YrCancerDerived_Inh_FAH3to16	3.17E-08
298	ALL	559631.6	4242867.75	3.16E-08	1.65YrCancerDerived_Inh_FAH3to16	3.16E-08
105	ALL	559271.6	4242787.75	3.16E-08	1.65YrCancerDerived_Inh_FAH3to16	3.16E-08
29	ALL	559551.6	4242747.75	3.16E-08	1.65YrCancerDerived_Inh_FAH3to16	3.16E-08
687	ALL	559151.6	4243047.75	3.15E-08	1.65YrCancerDerived_Inh_FAH3to16	3.15E-08
194	ALL	559251.6	4242827.75	3.14E-08	1.65YrCancerDerived_Inh_FAH3to16	3.14E-08
1823	ALL	559951.6	4243547.75	3.14E-08	1.65YrCancerDerived_Inh_FAH3to16	3.14E-08
1512	ALL	559151.6	4243427.75	3.14E-08	1.65YrCancerDerived_Inh_FAH3to16	3.14E-08
75	ALL	559571.6	4242767.75	3.14E-08	1.65YrCancerDerived_Inh_FAH3to16	3.14E-08
390	ALL	559651.6	4242907.75	3.13E-08	1.65YrCancerDerived_Inh_FAH3to16	3.13E-08
618	ALL	559691.6	4243007.75	3.13E-08	1.65YrCancerDerived_Inh_FAH3to16	3.13E-08
553	ALL	559191.6	4242987.75	3.13E-08	1.65YrCancerDerived_Inh_FAH3to16	3.13E-08
2206	ALL	559951.6	4243707.75	3.13E-08	1.65YrCancerDerived_Inh_FAH3to16	3.13E-08
1930	ALL	559211.6	4243607.75	3.12E-08	1.65YrCancerDerived_Inh_FAH3to16	3.12E-08
1639	ALL	559931.6	4243467.75	3.11E-08	1.65YrCancerDerived_Inh_FAH3to16	3.11E-08
1045	ALL	559091.6	4243207.75	3.11E-08	1.65YrCancerDerived_Inh_FAH3to16	3.11E-08
1075	ALL	559791.6	4243207.75	3.10E-08	1.65YrCancerDerived_Inh_FAH3to16	3.10E-08
732	ALL	559131.6	4243067.75	3.10E-08	1.65YrCancerDerived_Inh_FAH3to16	3.10E-08
1090	ALL	559091.6	4243227.75	3.10E-08	1.65YrCancerDerived_Inh_FAH3to16	3.10E-08
1288	ALL	559111.6	4243327.75	3.09E-08	1.65YrCancerDerived_Inh_FAH3to16	3.09E-08
2218	ALL	559231.6	4243727.75	3.09E-08	1.65YrCancerDerived_Inh_FAH3to16	3.09E-08
16	ALL	559291.6	4242747.75	3.08E-08	1.65YrCancerDerived_Inh_FAH3to16	3.08E-08
1000	ALL	559091.6	4243187.75	3.08E-08	1.65YrCancerDerived_Inh_FAH3to16	3.08E-08
1194	ALL	559831.6	4243267.75	3.08E-08	1.65YrCancerDerived_Inh_FAH3to16	3.08E-08
2254	ALL	559951.6	4243727.75	3.08E-08	1.65YrCancerDerived_Inh_FAH3to16	3.08E-08
1778	ALL	559951.6	4243527.75	3.07E-08	1.65YrCancerDerived_Inh_FAH3to16	3.07E-08
283	ALL	559231.6	4242867.75	3.07E-08	1.65YrCancerDerived_Inh_FAH3to16	3.07E-08
481	ALL	559671.6	4242947.75	3.06E-08	1.65YrCancerDerived_Inh_FAH3to16	3.06E-08
1408	ALL	559891.6	4243367.75	3.06E-08	1.65YrCancerDerived_Inh_FAH3to16	3.06E-08
418	ALL	559211.6	4242927.75	3.06E-08	1.65YrCancerDerived_Inh_FAH3to16	3.06E-08
1133	ALL	559091.6	4243247.75	3.06E-08	1.65YrCancerDerived_Inh_FAH3to16	3.06E-08
1500	ALL	559911.6	4243407.75	3.05E-08	1.65YrCancerDerived_Inh_FAH3to16	3.05E-08
711	ALL	559711.6	4243047.75	3.04E-08	1.65YrCancerDerived_Inh_FAH3to16	3.04E-08
956	ALL	559091.6	4243167.75	3.03E-08	1.65YrCancerDerived_Inh_FAH3to16	3.03E-08
1319	ALL	559871.6	4243327.75	3.03E-08	1.65YrCancerDerived_Inh_FAH3to16	3.03E-08
777	ALL	559111.6	4243087.75	3.03E-08	1.65YrCancerDerived_Inh_FAH3to16	3.03E-08
1785	ALL	559191.6	4243547.75	3.01E-08	1.65YrCancerDerived_Inh_FAH3to16	3.01E-08
1978	ALL	559211.6	4243627.75	3.01E-08	1.65YrCancerDerived_Inh_FAH3to16	3.01E-08
984	ALL	559771.6	4243167.75	3.01E-08	1.65YrCancerDerived_Inh_FAH3to16	3.01E-08
60	ALL	559271.6	4242767.75	3.01E-08	1.65YrCancerDerived_Inh_FAH3to16	3.01E-08
1420	ALL	559131.6	4243387.75	3.01E-08	1.65YrCancerDerived_Inh_FAH3to16	3.01E-08
149	ALL	559251.6	4242807.75	3.00E-08	1.65YrCancerDerived_Inh_FAH3to16	3.00E-08
1172	ALL	559091.6	4243267.75	2.99E-08	1.65YrCancerDerived_Inh_FAH3to16	2.99E-08
253	ALL	559631.6	4242847.75	2.99E-08	1.65YrCancerDerived_Inh_FAH3to16	2.99E-08

1732	ALL	559951.6	4243507.75	2.99E-08	1.65YrCancerDerived_Inh_FAH3to16	2.99E-08
1593	ALL	559931.6	4243447.75	2.99E-08	1.65YrCancerDerived_Inh_FAH3to16	2.99E-08
2016	ALL	559971.6	4243627.75	2.99E-08	1.65YrCancerDerived_Inh_FAH3to16	2.99E-08
2063	ALL	559971.6	4243647.75	2.99E-08	1.65YrCancerDerived_Inh_FAH3to16	2.99E-08
911	ALL	559091.6	4243147.75	2.98E-08	1.65YrCancerDerived_Inh_FAH3to16	2.98E-08
1558	ALL	559151.6	4243447.75	2.98E-08	1.65YrCancerDerived_Inh_FAH3to16	2.98E-08
2111	ALL	559971.6	4243667.75	2.97E-08	1.65YrCancerDerived_Inh_FAH3to16	2.97E-08
1968	ALL	559971.6	4243607.75	2.97E-08	1.65YrCancerDerived_Inh_FAH3to16	2.97E-08
803	ALL	559731.6	4243087.75	2.97E-08	1.65YrCancerDerived_Inh_FAH3to16	2.97E-08
573	ALL	559691.6	4242987.75	2.97E-08	1.65YrCancerDerived_Inh_FAH3to16	2.97E-08
344	ALL	559651.6	4242887.75	2.97E-08	1.65YrCancerDerived_Inh_FAH3to16	2.97E-08
1119	ALL	559811.6	4243227.75	2.97E-08	1.65YrCancerDerived_Inh_FAH3to16	2.97E-08
507	ALL	559191.6	4242967.75	2.96E-08	1.65YrCancerDerived_Inh_FAH3to16	2.96E-08
894	ALL	559751.6	4243127.75	2.96E-08	1.65YrCancerDerived_Inh_FAH3to16	2.96E-08
1331	ALL	559111.6	4243347.75	2.96E-08	1.65YrCancerDerived_Inh_FAH3to16	2.96E-08
2159	ALL	559971.6	4243687.75	2.95E-08	1.65YrCancerDerived_Inh_FAH3to16	2.95E-08
30	ALL	559571.6	4242747.75	2.95E-08	1.65YrCancerDerived_Inh_FAH3to16	2.95E-08
597	ALL	559171.6	4243007.75	2.95E-08	1.65YrCancerDerived_Inh_FAH3to16	2.95E-08
1234	ALL	559851.6	4243287.75	2.95E-08	1.65YrCancerDerived_Inh_FAH3to16	2.95E-08
1920	ALL	559971.6	4243587.75	2.94E-08	1.65YrCancerDerived_Inh_FAH3to16	2.94E-08
238	ALL	559231.6	4242847.75	2.94E-08	1.65YrCancerDerived_Inh_FAH3to16	2.94E-08
866	ALL	559091.6	4243127.75	2.93E-08	1.65YrCancerDerived_Inh_FAH3to16	2.93E-08
372	ALL	559211.6	4242907.75	2.93E-08	1.65YrCancerDerived_Inh_FAH3to16	2.93E-08
1207	ALL	559091.6	4243287.75	2.92E-08	1.65YrCancerDerived_Inh_FAH3to16	2.92E-08
2207	ALL	559971.6	4243707.75	2.92E-08	1.65YrCancerDerived_Inh_FAH3to16	2.92E-08
2025	ALL	559211.6	4243647.75	2.91E-08	1.65YrCancerDerived_Inh_FAH3to16	2.91E-08
436	ALL	559671.6	4242927.75	2.91E-08	1.65YrCancerDerived_Inh_FAH3to16	2.91E-08
1872	ALL	559971.6	4243567.75	2.90E-08	1.65YrCancerDerived_Inh_FAH3to16	2.90E-08
1686	ALL	559951.6	4243487.75	2.90E-08	1.65YrCancerDerived_Inh_FAH3to16	2.90E-08
641	ALL	559151.6	4243027.75	2.89E-08	1.65YrCancerDerived_Inh_FAH3to16	2.89E-08
1454	ALL	559911.6	4243387.75	2.89E-08	1.65YrCancerDerived_Inh_FAH3to16	2.89E-08
104	ALL	559251.6	4242787.75	2.88E-08	1.65YrCancerDerived_Inh_FAH3to16	2.88E-08
2255	ALL	559971.6	4243727.75	2.88E-08	1.65YrCancerDerived_Inh_FAH3to16	2.88E-08
665	ALL	559711.6	4243027.75	2.87E-08	1.65YrCancerDerived_Inh_FAH3to16	2.87E-08
1364	ALL	559891.6	4243347.75	2.87E-08	1.65YrCancerDerived_Inh_FAH3to16	2.87E-08
686	ALL	559131.6	4243047.75	2.87E-08	1.65YrCancerDerived_Inh_FAH3to16	2.87E-08
15	ALL	559271.6	4242747.75	2.87E-08	1.65YrCancerDerived_Inh_FAH3to16	2.87E-08
1030	ALL	559791.6	4243187.75	2.86E-08	1.65YrCancerDerived_Inh_FAH3to16	2.86E-08
821	ALL	559091.6	4243107.75	2.86E-08	1.65YrCancerDerived_Inh_FAH3to16	2.86E-08
1547	ALL	559931.6	4243427.75	2.86E-08	1.65YrCancerDerived_Inh_FAH3to16	2.86E-08
1833	ALL	559191.6	4243567.75	2.85E-08	1.65YrCancerDerived_Inh_FAH3to16	2.85E-08
1465	ALL	559131.6	4243407.75	2.85E-08	1.65YrCancerDerived_Inh_FAH3to16	2.85E-08
1824	ALL	559971.6	4243547.75	2.85E-08	1.65YrCancerDerived_Inh_FAH3to16	2.85E-08
1159	ALL	559831.6	4243247.75	2.84E-08	1.65YrCancerDerived_Inh_FAH3to16	2.84E-08
1246	ALL	559091.6	4243307.75	2.84E-08	1.65YrCancerDerived_Inh_FAH3to16	2.84E-08
731	ALL	559111.6	4243067.75	2.84E-08	1.65YrCancerDerived_Inh_FAH3to16	2.84E-08
193	ALL	559231.6	4242827.75	2.83E-08	1.65YrCancerDerived_Inh_FAH3to16	2.83E-08
2073	ALL	559211.6	4243667.75	2.82E-08	1.65YrCancerDerived_Inh_FAH3to16	2.82E-08
528	ALL	559691.6	4242967.75	2.82E-08	1.65YrCancerDerived_Inh_FAH3to16	2.82E-08
1276	ALL	559871.6	4243307.75	2.82E-08	1.65YrCancerDerived_Inh_FAH3to16	2.82E-08
299	ALL	559651.6	4242867.75	2.82E-08	1.65YrCancerDerived_Inh_FAH3to16	2.82E-08
462	ALL	559191.6	4242947.75	2.81E-08	1.65YrCancerDerived_Inh_FAH3to16	2.81E-08
327	ALL	559211.6	4242887.75	2.81E-08	1.65YrCancerDerived_Inh_FAH3to16	2.81E-08
758	ALL	559731.6	4243067.75	2.80E-08	1.65YrCancerDerived_Inh_FAH3to16	2.80E-08
940	ALL	559771.6	4243147.75	2.79E-08	1.65YrCancerDerived_Inh_FAH3to16	2.79E-08
1640	ALL	559951.6	4243467.75	2.79E-08	1.65YrCancerDerived_Inh_FAH3to16	2.79E-08
552	ALL	559171.6	4242987.75	2.79E-08	1.65YrCancerDerived_Inh_FAH3to16	2.79E-08
1375	ALL	559111.6	4243367.75	2.78E-08	1.65YrCancerDerived_Inh_FAH3to16	2.78E-08
1779	ALL	559971.6	4243527.75	2.78E-08	1.65YrCancerDerived_Inh_FAH3to16	2.78E-08
1044	ALL	559071.6	4243207.75	2.77E-08	1.65YrCancerDerived_Inh_FAH3to16	2.77E-08
849	ALL	559751.6	4243107.75	2.77E-08	1.65YrCancerDerived_Inh_FAH3to16	2.77E-08
391	ALL	559671.6	4242907.75	2.77E-08	1.65YrCancerDerived_Inh_FAH3to16	2.77E-08
59	ALL	559251.6	4242767.75	2.76E-08	1.65YrCancerDerived_Inh_FAH3to16	2.76E-08
1089	ALL	559071.6	4243227.75	2.76E-08	1.65YrCancerDerived_Inh_FAH3to16	2.76E-08
776	ALL	559091.6	4243087.75	2.75E-08	1.65YrCancerDerived_Inh_FAH3to16	2.75E-08
999	ALL	559071.6	4243187.75	2.75E-08	1.65YrCancerDerived_Inh_FAH3to16	2.75E-08
2121	ALL	559211.6	4243687.75	2.74E-08	1.65YrCancerDerived_Inh_FAH3to16	2.74E-08
1076	ALL	559811.6	4243207.75	2.74E-08	1.65YrCancerDerived_Inh_FAH3to16	2.74E-08
1287	ALL	559091.6	4243327.75	2.74E-08	1.65YrCancerDerived_Inh_FAH3to16	2.74E-08
31	ALL	559591.6	4242747.75	2.73E-08	1.65YrCancerDerived_Inh_FAH3to16	2.73E-08
1195	ALL	559851.6	4243267.75	2.73E-08	1.65YrCancerDerived_Inh_FAH3to16	2.73E-08
619	ALL	559711.6	4243007.75	2.73E-08	1.65YrCancerDerived_Inh_FAH3to16	2.73E-08
1409	ALL	559911.6	4243367.75	2.72E-08	1.65YrCancerDerived_Inh_FAH3to16	2.72E-08
1501	ALL	559931.6	4243407.75	2.72E-08	1.65YrCancerDerived_Inh_FAH3to16	2.72E-08

1132	ALL	559071.6	4243247.75	2.72E-08	1.65YrCancerDerived_Inh_FAH3to16	2.72E-08
955	ALL	559071.6	4243167.75	2.72E-08	1.65YrCancerDerived_Inh_FAH3to16	2.72E-08
1881	ALL	559191.6	4243587.75	2.72E-08	1.65YrCancerDerived_Inh_FAH3to16	2.72E-08
148	ALL	559231.6	4242807.75	2.71E-08	1.65YrCancerDerived_Inh_FAH3to16	2.71E-08
1511	ALL	559131.6	4243427.75	2.70E-08	1.65YrCancerDerived_Inh_FAH3to16	2.70E-08
282	ALL	559211.6	4242867.75	2.70E-08	1.65YrCancerDerived_Inh_FAH3to16	2.70E-08
1733	ALL	559971.6	4243507.75	2.70E-08	1.65YrCancerDerived_Inh_FAH3to16	2.70E-08
1320	ALL	559891.6	4243327.75	2.69E-08	1.65YrCancerDerived_Inh_FAH3to16	2.69E-08
482	ALL	559691.6	4242947.75	2.69E-08	1.65YrCancerDerived_Inh_FAH3to16	2.69E-08
910	ALL	559071.6	4243147.75	2.68E-08	1.65YrCancerDerived_Inh_FAH3to16	2.68E-08
417	ALL	559191.6	4242927.75	2.68E-08	1.65YrCancerDerived_Inh_FAH3to16	2.68E-08
1594	ALL	559951.6	4243447.75	2.68E-08	1.65YrCancerDerived_Inh_FAH3to16	2.68E-08
254	ALL	559651.6	4242847.75	2.68E-08	1.65YrCancerDerived_Inh_FAH3to16	2.68E-08
596	ALL	559151.6	4243007.75	2.66E-08	1.65YrCancerDerived_Inh_FAH3to16	2.66E-08
2169	ALL	559211.6	4243707.75	2.66E-08	1.65YrCancerDerived_Inh_FAH3to16	2.66E-08
985	ALL	559791.6	4243167.75	2.65E-08	1.65YrCancerDerived_Inh_FAH3to16	2.65E-08
1171	ALL	559071.6	4243267.75	2.65E-08	1.65YrCancerDerived_Inh_FAH3to16	2.65E-08
865	ALL	559071.6	4243127.75	2.65E-08	1.65YrCancerDerived_Inh_FAH3to16	2.65E-08
685	ALL	559111.6	4243047.75	2.65E-08	1.65YrCancerDerived_Inh_FAH3to16	2.65E-08
712	ALL	559731.6	4243047.75	2.65E-08	1.65YrCancerDerived_Inh_FAH3to16	2.65E-08
14	ALL	559251.6	4242747.75	2.65E-08	1.65YrCancerDerived_Inh_FAH3to16	2.65E-08
1419	ALL	559111.6	4243387.75	2.65E-08	1.65YrCancerDerived_Inh_FAH3to16	2.65E-08
345	ALL	559671.6	4242887.75	2.63E-08	1.65YrCancerDerived_Inh_FAH3to16	2.63E-08
640	ALL	559131.6	4243027.75	2.63E-08	1.65YrCancerDerived_Inh_FAH3to16	2.63E-08
1120	ALL	559831.6	4243227.75	2.63E-08	1.65YrCancerDerived_Inh_FAH3to16	2.63E-08
730	ALL	559091.6	4243067.75	2.62E-08	1.65YrCancerDerived_Inh_FAH3to16	2.62E-08
506	ALL	559171.6	4242967.75	2.62E-08	1.65YrCancerDerived_Inh_FAH3to16	2.62E-08
1235	ALL	559871.6	4243287.75	2.62E-08	1.65YrCancerDerived_Inh_FAH3to16	2.62E-08
1687	ALL	559971.6	4243487.75	2.61E-08	1.65YrCancerDerived_Inh_FAH3to16	2.61E-08
237	ALL	559211.6	4242847.75	2.61E-08	1.65YrCancerDerived_Inh_FAH3to16	2.61E-08
103	ALL	559231.6	4242787.75	2.61E-08	1.65YrCancerDerived_Inh_FAH3to16	2.61E-08
1330	ALL	559091.6	4243347.75	2.61E-08	1.65YrCancerDerived_Inh_FAH3to16	2.61E-08
895	ALL	559771.6	4243127.75	2.60E-08	1.65YrCancerDerived_Inh_FAH3to16	2.60E-08
804	ALL	559751.6	4243087.75	2.60E-08	1.65YrCancerDerived_Inh_FAH3to16	2.60E-08
820	ALL	559071.6	4243107.75	2.60E-08	1.65YrCancerDerived_Inh_FAH3to16	2.60E-08
1929	ALL	559191.6	4243607.75	2.60E-08	1.65YrCancerDerived_Inh_FAH3to16	2.60E-08
1206	ALL	559071.6	4243287.75	2.60E-08	1.65YrCancerDerived_Inh_FAH3to16	2.60E-08
574	ALL	559711.6	4242987.75	2.60E-08	1.65YrCancerDerived_Inh_FAH3to16	2.60E-08
2217	ALL	559211.6	4243727.75	2.58E-08	1.65YrCancerDerived_Inh_FAH3to16	2.58E-08
1455	ALL	559931.6	4243387.75	2.58E-08	1.65YrCancerDerived_Inh_FAH3to16	2.58E-08
371	ALL	559191.6	4242907.75	2.57E-08	1.65YrCancerDerived_Inh_FAH3to16	2.57E-08
1548	ALL	559951.6	4243427.75	2.56E-08	1.65YrCancerDerived_Inh_FAH3to16	2.56E-08
437	ALL	559691.6	4242927.75	2.56E-08	1.65YrCancerDerived_Inh_FAH3to16	2.56E-08
1365	ALL	559911.6	4243347.75	2.56E-08	1.65YrCancerDerived_Inh_FAH3to16	2.56E-08
1557	ALL	559131.6	4243447.75	2.56E-08	1.65YrCancerDerived_Inh_FAH3to16	2.56E-08
209	ALL	559651.6	4242827.75	2.55E-08	1.65YrCancerDerived_Inh_FAH3to16	2.55E-08
1031	ALL	559811.6	4243187.75	2.54E-08	1.65YrCancerDerived_Inh_FAH3to16	2.54E-08
1245	ALL	559071.6	4243307.75	2.54E-08	1.65YrCancerDerived_Inh_FAH3to16	2.54E-08
775	ALL	559071.6	4243087.75	2.53E-08	1.65YrCancerDerived_Inh_FAH3to16	2.53E-08
1160	ALL	559851.6	4243247.75	2.53E-08	1.65YrCancerDerived_Inh_FAH3to16	2.53E-08
192	ALL	559211.6	4242827.75	2.52E-08	1.65YrCancerDerived_Inh_FAH3to16	2.52E-08
1977	ALL	559191.6	4243627.75	2.52E-08	1.65YrCancerDerived_Inh_FAH3to16	2.52E-08
58	ALL	559231.6	4242767.75	2.52E-08	1.65YrCancerDerived_Inh_FAH3to16	2.52E-08
1641	ALL	559971.6	4243467.75	2.52E-08	1.65YrCancerDerived_Inh_FAH3to16	2.52E-08
666	ALL	559731.6	4243027.75	2.51E-08	1.65YrCancerDerived_Inh_FAH3to16	2.51E-08
1277	ALL	559891.6	4243307.75	2.51E-08	1.65YrCancerDerived_Inh_FAH3to16	2.51E-08
300	ALL	559671.6	4242867.75	2.51E-08	1.65YrCancerDerived_Inh_FAH3to16	2.51E-08
551	ALL	559151.6	4242987.75	2.51E-08	1.65YrCancerDerived_Inh_FAH3to16	2.51E-08
1464	ALL	559111.6	4243407.75	2.51E-08	1.65YrCancerDerived_Inh_FAH3to16	2.51E-08
461	ALL	559171.6	4242947.75	2.49E-08	1.65YrCancerDerived_Inh_FAH3to16	2.49E-08
1374	ALL	559091.6	4243367.75	2.48E-08	1.65YrCancerDerived_Inh_FAH3to16	2.48E-08
998	ALL	559051.6	4243187.75	2.48E-08	1.65YrCancerDerived_Inh_FAH3to16	2.48E-08
326	ALL	559191.6	4242887.75	2.48E-08	1.65YrCancerDerived_Inh_FAH3to16	2.48E-08
529	ALL	559711.6	4242967.75	2.48E-08	1.65YrCancerDerived_Inh_FAH3to16	2.48E-08
1043	ALL	559051.6	4243207.75	2.48E-08	1.65YrCancerDerived_Inh_FAH3to16	2.48E-08
941	ALL	559791.6	4243147.75	2.47E-08	1.65YrCancerDerived_Inh_FAH3to16	2.47E-08
1088	ALL	559051.6	4243227.75	2.47E-08	1.65YrCancerDerived_Inh_FAH3to16	2.47E-08
759	ALL	559751.6	4243067.75	2.46E-08	1.65YrCancerDerived_Inh_FAH3to16	2.46E-08
684	ALL	559091.6	4243047.75	2.46E-08	1.65YrCancerDerived_Inh_FAH3to16	2.46E-08
639	ALL	559111.6	4243027.75	2.45E-08	1.65YrCancerDerived_Inh_FAH3to16	2.45E-08
392	ALL	559691.6	4242907.75	2.45E-08	1.65YrCancerDerived_Inh_FAH3to16	2.45E-08
1286	ALL	559071.6	4243327.75	2.45E-08	1.65YrCancerDerived_Inh_FAH3to16	2.45E-08
954	ALL	559051.6	4243167.75	2.45E-08	1.65YrCancerDerived_Inh_FAH3to16	2.45E-08
1502	ALL	559951.6	4243407.75	2.44E-08	1.65YrCancerDerived_Inh_FAH3to16	2.44E-08

147	ALL	559211.6	4242807.75	2.44E-08	1.65YrCancerDerived_Inh_FAH3to16	2.44E-08
850	ALL	559771.6	4243107.75	2.44E-08	1.65YrCancerDerived_Inh_FAH3to16	2.44E-08
1410	ALL	559931.6	4243367.75	2.44E-08	1.65YrCancerDerived_Inh_FAH3to16	2.44E-08
595	ALL	559131.6	4243007.75	2.44E-08	1.65YrCancerDerived_Inh_FAH3to16	2.44E-08
1077	ALL	559831.6	4243207.75	2.43E-08	1.65YrCancerDerived_Inh_FAH3to16	2.43E-08
1196	ALL	559871.6	4243267.75	2.43E-08	1.65YrCancerDerived_Inh_FAH3to16	2.43E-08
13	ALL	559231.6	4242747.75	2.43E-08	1.65YrCancerDerived_Inh_FAH3to16	2.43E-08
1131	ALL	559051.6	4243247.75	2.43E-08	1.65YrCancerDerived_Inh_FAH3to16	2.43E-08
2024	ALL	559191.6	4243647.75	2.43E-08	1.65YrCancerDerived_Inh_FAH3to16	2.43E-08
1595	ALL	559971.6	4243447.75	2.42E-08	1.65YrCancerDerived_Inh_FAH3to16	2.42E-08
1603	ALL	559131.6	4243467.75	2.41E-08	1.65YrCancerDerived_Inh_FAH3to16	2.41E-08
729	ALL	559071.6	4243067.75	2.41E-08	1.65YrCancerDerived_Inh_FAH3to16	2.41E-08
909	ALL	559051.6	4243147.75	2.41E-08	1.65YrCancerDerived_Inh_FAH3to16	2.41E-08
1321	ALL	559911.6	4243327.75	2.40E-08	1.65YrCancerDerived_Inh_FAH3to16	2.40E-08
255	ALL	559671.6	4242847.75	2.39E-08	1.65YrCancerDerived_Inh_FAH3to16	2.39E-08
1832	ALL	559171.6	4243567.75	2.39E-08	1.65YrCancerDerived_Inh_FAH3to16	2.39E-08
281	ALL	559191.6	4242867.75	2.39E-08	1.65YrCancerDerived_Inh_FAH3to16	2.39E-08
620	ALL	559731.6	4243007.75	2.39E-08	1.65YrCancerDerived_Inh_FAH3to16	2.39E-08
864	ALL	559051.6	4243127.75	2.38E-08	1.65YrCancerDerived_Inh_FAH3to16	2.38E-08
1510	ALL	559111.6	4243427.75	2.37E-08	1.65YrCancerDerived_Inh_FAH3to16	2.37E-08
1170	ALL	559051.6	4243267.75	2.37E-08	1.65YrCancerDerived_Inh_FAH3to16	2.37E-08
416	ALL	559171.6	4242927.75	2.37E-08	1.65YrCancerDerived_Inh_FAH3to16	2.37E-08
483	ALL	559711.6	4242947.75	2.37E-08	1.65YrCancerDerived_Inh_FAH3to16	2.37E-08
102	ALL	559211.6	4242787.75	2.37E-08	1.65YrCancerDerived_Inh_FAH3to16	2.37E-08
986	ALL	559811.6	4243167.75	2.36E-08	1.65YrCancerDerived_Inh_FAH3to16	2.36E-08
819	ALL	559051.6	4243107.75	2.36E-08	1.65YrCancerDerived_Inh_FAH3to16	2.36E-08
1418	ALL	559091.6	4243387.75	2.36E-08	1.65YrCancerDerived_Inh_FAH3to16	2.36E-08
2072	ALL	559191.6	4243667.75	2.36E-08	1.65YrCancerDerived_Inh_FAH3to16	2.36E-08
505	ALL	559151.6	4242967.75	2.35E-08	1.65YrCancerDerived_Inh_FAH3to16	2.35E-08
1121	ALL	559851.6	4243227.75	2.34E-08	1.65YrCancerDerived_Inh_FAH3to16	2.34E-08
1329	ALL	559071.6	4243347.75	2.34E-08	1.65YrCancerDerived_Inh_FAH3to16	2.34E-08
1236	ALL	559891.6	4243287.75	2.34E-08	1.65YrCancerDerived_Inh_FAH3to16	2.34E-08
346	ALL	559691.6	4242887.75	2.34E-08	1.65YrCancerDerived_Inh_FAH3to16	2.34E-08
713	ALL	559751.6	4243047.75	2.33E-08	1.65YrCancerDerived_Inh_FAH3to16	2.33E-08
1205	ALL	559051.6	4243287.75	2.33E-08	1.65YrCancerDerived_Inh_FAH3to16	2.33E-08
236	ALL	559191.6	4242847.75	2.32E-08	1.65YrCancerDerived_Inh_FAH3to16	2.32E-08
1456	ALL	559951.6	4243387.75	2.32E-08	1.65YrCancerDerived_Inh_FAH3to16	2.32E-08
1549	ALL	559971.6	4243427.75	2.31E-08	1.65YrCancerDerived_Inh_FAH3to16	2.31E-08
896	ALL	559791.6	4243127.75	2.31E-08	1.65YrCancerDerived_Inh_FAH3to16	2.31E-08
774	ALL	559051.6	4243087.75	2.31E-08	1.65YrCancerDerived_Inh_FAH3to16	2.31E-08
2120	ALL	559191.6	4243687.75	2.30E-08	1.65YrCancerDerived_Inh_FAH3to16	2.30E-08
805	ALL	559771.6	4243087.75	2.30E-08	1.65YrCancerDerived_Inh_FAH3to16	2.30E-08
1366	ALL	559931.6	4243347.75	2.30E-08	1.65YrCancerDerived_Inh_FAH3to16	2.30E-08
57	ALL	559211.6	4242767.75	2.29E-08	1.65YrCancerDerived_Inh_FAH3to16	2.29E-08
210	ALL	559671.6	4242827.75	2.29E-08	1.65YrCancerDerived_Inh_FAH3to16	2.29E-08
575	ALL	559731.6	4242987.75	2.29E-08	1.65YrCancerDerived_Inh_FAH3to16	2.29E-08
1880	ALL	559171.6	4243587.75	2.28E-08	1.65YrCancerDerived_Inh_FAH3to16	2.28E-08
638	ALL	559091.6	4243027.75	2.28E-08	1.65YrCancerDerived_Inh_FAH3to16	2.28E-08
550	ALL	559131.6	4242987.75	2.28E-08	1.65YrCancerDerived_Inh_FAH3to16	2.28E-08
370	ALL	559171.6	4242907.75	2.28E-08	1.65YrCancerDerived_Inh_FAH3to16	2.28E-08
1244	ALL	559051.6	4243307.75	2.27E-08	1.65YrCancerDerived_Inh_FAH3to16	2.27E-08
594	ALL	559111.6	4243007.75	2.27E-08	1.65YrCancerDerived_Inh_FAH3to16	2.27E-08
438	ALL	559711.6	4242927.75	2.27E-08	1.65YrCancerDerived_Inh_FAH3to16	2.27E-08
1032	ALL	559831.6	4243187.75	2.26E-08	1.65YrCancerDerived_Inh_FAH3to16	2.26E-08
683	ALL	559071.6	4243047.75	2.26E-08	1.65YrCancerDerived_Inh_FAH3to16	2.26E-08
1161	ALL	559871.6	4243247.75	2.26E-08	1.65YrCancerDerived_Inh_FAH3to16	2.26E-08
1278	ALL	559911.6	4243307.75	2.25E-08	1.65YrCancerDerived_Inh_FAH3to16	2.25E-08
191	ALL	559191.6	4242827.75	2.25E-08	1.65YrCancerDerived_Inh_FAH3to16	2.25E-08
1556	ALL	559111.6	4243447.75	2.25E-08	1.65YrCancerDerived_Inh_FAH3to16	2.25E-08
2168	ALL	559191.6	4243707.75	2.25E-08	1.65YrCancerDerived_Inh_FAH3to16	2.25E-08
1042	ALL	559031.6	4243207.75	2.24E-08	1.65YrCancerDerived_Inh_FAH3to16	2.24E-08
997	ALL	559031.6	4243187.75	2.24E-08	1.65YrCancerDerived_Inh_FAH3to16	2.24E-08
301	ALL	559691.6	4242867.75	2.24E-08	1.65YrCancerDerived_Inh_FAH3to16	2.24E-08
1463	ALL	559091.6	4243407.75	2.23E-08	1.65YrCancerDerived_Inh_FAH3to16	2.23E-08
1087	ALL	559031.6	4243227.75	2.23E-08	1.65YrCancerDerived_Inh_FAH3to16	2.23E-08
1373	ALL	559071.6	4243367.75	2.23E-08	1.65YrCancerDerived_Inh_FAH3to16	2.23E-08
953	ALL	559031.6	4243167.75	2.22E-08	1.65YrCancerDerived_Inh_FAH3to16	2.22E-08
12	ALL	559211.6	4242747.75	2.22E-08	1.65YrCancerDerived_Inh_FAH3to16	2.22E-08
460	ALL	559151.6	4242947.75	2.22E-08	1.65YrCancerDerived_Inh_FAH3to16	2.22E-08
1928	ALL	559171.6	4243607.75	2.22E-08	1.65YrCancerDerived_Inh_FAH3to16	2.22E-08
667	ALL	559751.6	4243027.75	2.22E-08	1.65YrCancerDerived_Inh_FAH3to16	2.22E-08
728	ALL	559051.6	4243067.75	2.21E-08	1.65YrCancerDerived_Inh_FAH3to16	2.21E-08
1503	ALL	559971.6	4243407.75	2.20E-08	1.65YrCancerDerived_Inh_FAH3to16	2.20E-08
942	ALL	559811.6	4243147.75	2.20E-08	1.65YrCancerDerived_Inh_FAH3to16	2.20E-08

1285	ALL	559051.6	4243327.75	2.20E-08	1.65YrCancerDerived_Inh_FAH3to16	2.20E-08
1411	ALL	559951.6	4243367.75	2.19E-08	1.65YrCancerDerived_Inh_FAH3to16	2.19E-08
325	ALL	559171.6	4242887.75	2.19E-08	1.65YrCancerDerived_Inh_FAH3to16	2.19E-08
165	ALL	559671.6	4242807.75	2.19E-08	1.65YrCancerDerived_Inh_FAH3to16	2.19E-08
530	ALL	559731.6	4242967.75	2.19E-08	1.65YrCancerDerived_Inh_FAH3to16	2.19E-08
2216	ALL	559191.6	4243727.75	2.19E-08	1.65YrCancerDerived_Inh_FAH3to16	2.19E-08
146	ALL	559191.6	4242807.75	2.19E-08	1.65YrCancerDerived_Inh_FAH3to16	2.19E-08
1130	ALL	559031.6	4243247.75	2.19E-08	1.65YrCancerDerived_Inh_FAH3to16	2.19E-08
908	ALL	559031.6	4243147.75	2.18E-08	1.65YrCancerDerived_Inh_FAH3to16	2.18E-08
1197	ALL	559891.6	4243267.75	2.18E-08	1.65YrCancerDerived_Inh_FAH3to16	2.18E-08
1078	ALL	559851.6	4243207.75	2.18E-08	1.65YrCancerDerived_Inh_FAH3to16	2.18E-08
760	ALL	559771.6	4243067.75	2.17E-08	1.65YrCancerDerived_Inh_FAH3to16	2.17E-08
393	ALL	559711.6	4242907.75	2.17E-08	1.65YrCancerDerived_Inh_FAH3to16	2.17E-08
851	ALL	559791.6	4243107.75	2.17E-08	1.65YrCancerDerived_Inh_FAH3to16	2.17E-08
1322	ALL	559931.6	4243327.75	2.16E-08	1.65YrCancerDerived_Inh_FAH3to16	2.16E-08
863	ALL	559031.6	4243127.75	2.16E-08	1.65YrCancerDerived_Inh_FAH3to16	2.16E-08
256	ALL	559691.6	4242847.75	2.15E-08	1.65YrCancerDerived_Inh_FAH3to16	2.15E-08
1169	ALL	559031.6	4243267.75	2.14E-08	1.65YrCancerDerived_Inh_FAH3to16	2.14E-08
1976	ALL	559171.6	4243627.75	2.14E-08	1.65YrCancerDerived_Inh_FAH3to16	2.14E-08
818	ALL	559031.6	4243107.75	2.14E-08	1.65YrCancerDerived_Inh_FAH3to16	2.14E-08
504	ALL	559131.6	4242967.75	2.13E-08	1.65YrCancerDerived_Inh_FAH3to16	2.13E-08
1602	ALL	559111.6	4243467.75	2.13E-08	1.65YrCancerDerived_Inh_FAH3to16	2.13E-08
101	ALL	559191.6	4242787.75	2.13E-08	1.65YrCancerDerived_Inh_FAH3to16	2.13E-08
280	ALL	559171.6	4242867.75	2.12E-08	1.65YrCancerDerived_Inh_FAH3to16	2.12E-08
415	ALL	559151.6	4242927.75	2.12E-08	1.65YrCancerDerived_Inh_FAH3to16	2.12E-08
1417	ALL	559071.6	4243387.75	2.12E-08	1.65YrCancerDerived_Inh_FAH3to16	2.12E-08
621	ALL	559751.6	4243007.75	2.12E-08	1.65YrCancerDerived_Inh_FAH3to16	2.12E-08
593	ALL	559091.6	4243007.75	2.11E-08	1.65YrCancerDerived_Inh_FAH3to16	2.11E-08
1509	ALL	559091.6	4243427.75	2.11E-08	1.65YrCancerDerived_Inh_FAH3to16	2.11E-08
1328	ALL	559051.6	4243347.75	2.11E-08	1.65YrCancerDerived_Inh_FAH3to16	2.11E-08
637	ALL	559071.6	4243027.75	2.11E-08	1.65YrCancerDerived_Inh_FAH3to16	2.11E-08
773	ALL	559031.6	4243087.75	2.11E-08	1.65YrCancerDerived_Inh_FAH3to16	2.11E-08
987	ALL	559831.6	4243167.75	2.11E-08	1.65YrCancerDerived_Inh_FAH3to16	2.11E-08
1122	ALL	559871.6	4243227.75	2.10E-08	1.65YrCancerDerived_Inh_FAH3to16	2.10E-08
1237	ALL	559911.6	4243287.75	2.10E-08	1.65YrCancerDerived_Inh_FAH3to16	2.10E-08
682	ALL	559051.6	4243047.75	2.10E-08	1.65YrCancerDerived_Inh_FAH3to16	2.10E-08
1204	ALL	559031.6	4243287.75	2.10E-08	1.65YrCancerDerived_Inh_FAH3to16	2.10E-08
549	ALL	559111.6	4242987.75	2.10E-08	1.65YrCancerDerived_Inh_FAH3to16	2.10E-08
484	ALL	559731.6	4242947.75	2.10E-08	1.65YrCancerDerived_Inh_FAH3to16	2.10E-08
120	ALL	559671.6	4242787.75	2.10E-08	1.65YrCancerDerived_Inh_FAH3to16	2.10E-08
1457	ALL	559971.6	4243387.75	2.09E-08	1.65YrCancerDerived_Inh_FAH3to16	2.09E-08
347	ALL	559711.6	4242887.75	2.09E-08	1.65YrCancerDerived_Inh_FAH3to16	2.09E-08
56	ALL	559191.6	4242767.75	2.07E-08	1.65YrCancerDerived_Inh_FAH3to16	2.07E-08
1367	ALL	559951.6	4243347.75	2.07E-08	1.65YrCancerDerived_Inh_FAH3to16	2.07E-08
714	ALL	559771.6	4243047.75	2.07E-08	1.65YrCancerDerived_Inh_FAH3to16	2.07E-08
897	ALL	559811.6	4243127.75	2.06E-08	1.65YrCancerDerived_Inh_FAH3to16	2.06E-08
235	ALL	559171.6	4242847.75	2.06E-08	1.65YrCancerDerived_Inh_FAH3to16	2.06E-08
2023	ALL	559171.6	4243647.75	2.06E-08	1.65YrCancerDerived_Inh_FAH3to16	2.06E-08
211	ALL	559691.6	4242827.75	2.06E-08	1.65YrCancerDerived_Inh_FAH3to16	2.06E-08
727	ALL	559031.6	4243067.75	2.05E-08	1.65YrCancerDerived_Inh_FAH3to16	2.05E-08
1243	ALL	559031.6	4243307.75	2.05E-08	1.65YrCancerDerived_Inh_FAH3to16	2.05E-08
806	ALL	559791.6	4243087.75	2.05E-08	1.65YrCancerDerived_Inh_FAH3to16	2.05E-08
1041	ALL	559011.6	4243207.75	2.04E-08	1.65YrCancerDerived_Inh_FAH3to16	2.04E-08
996	ALL	559011.6	4243187.75	2.04E-08	1.65YrCancerDerived_Inh_FAH3to16	2.04E-08
1162	ALL	559891.6	4243247.75	2.04E-08	1.65YrCancerDerived_Inh_FAH3to16	2.04E-08
1033	ALL	559851.6	4243187.75	2.03E-08	1.65YrCancerDerived_Inh_FAH3to16	2.03E-08
952	ALL	559011.6	4243167.75	2.03E-08	1.65YrCancerDerived_Inh_FAH3to16	2.03E-08
369	ALL	559151.6	4242907.75	2.03E-08	1.65YrCancerDerived_Inh_FAH3to16	2.03E-08
1279	ALL	559931.6	4243307.75	2.03E-08	1.65YrCancerDerived_Inh_FAH3to16	2.03E-08
576	ALL	559751.6	4242987.75	2.03E-08	1.65YrCancerDerived_Inh_FAH3to16	2.03E-08
1086	ALL	559011.6	4243227.75	2.03E-08	1.65YrCancerDerived_Inh_FAH3to16	2.03E-08
11	ALL	559191.6	4242747.75	2.02E-08	1.65YrCancerDerived_Inh_FAH3to16	2.02E-08
1648	ALL	559111.6	4243487.75	2.02E-08	1.65YrCancerDerived_Inh_FAH3to16	2.02E-08
1372	ALL	559051.6	4243367.75	2.02E-08	1.65YrCancerDerived_Inh_FAH3to16	2.02E-08
439	ALL	559731.6	4242927.75	2.02E-08	1.65YrCancerDerived_Inh_FAH3to16	2.02E-08
190	ALL	559171.6	4242827.75	2.01E-08	1.65YrCancerDerived_Inh_FAH3to16	2.01E-08
2071	ALL	559171.6	4243667.75	2.01E-08	1.65YrCancerDerived_Inh_FAH3to16	2.01E-08
302	ALL	559711.6	4242867.75	2.00E-08	1.65YrCancerDerived_Inh_FAH3to16	2.00E-08
1555	ALL	559091.6	4243447.75	2.00E-08	1.65YrCancerDerived_Inh_FAH3to16	2.00E-08
459	ALL	559131.6	4242947.75	2.00E-08	1.65YrCancerDerived_Inh_FAH3to16	2.00E-08
1462	ALL	559071.6	4243407.75	2.00E-08	1.65YrCancerDerived_Inh_FAH3to16	2.00E-08
907	ALL	559011.6	4243147.75	2.00E-08	1.65YrCancerDerived_Inh_FAH3to16	2.00E-08
1879	ALL	559151.6	4243587.75	1.99E-08	1.65YrCancerDerived_Inh_FAH3to16	1.99E-08
1284	ALL	559031.6	4243327.75	1.99E-08	1.65YrCancerDerived_Inh_FAH3to16	1.99E-08

1412	ALL	559971.6	4243367.75	1.98E-08	1.65YrCancerDerived_Inh_FAH3to16	1.98E-08
1129	ALL	559011.6	4243247.75	1.98E-08	1.65YrCancerDerived_Inh_FAH3to16	1.98E-08
166	ALL	559691.6	4242807.75	1.98E-08	1.65YrCancerDerived_Inh_FAH3to16	1.98E-08
943	ALL	559831.6	4243147.75	1.98E-08	1.65YrCancerDerived_Inh_FAH3to16	1.98E-08
636	ALL	559051.6	4243027.75	1.97E-08	1.65YrCancerDerived_Inh_FAH3to16	1.97E-08
668	ALL	559771.6	4243027.75	1.97E-08	1.65YrCancerDerived_Inh_FAH3to16	1.97E-08
1198	ALL	559911.6	4243267.75	1.97E-08	1.65YrCancerDerived_Inh_FAH3to16	1.97E-08
862	ALL	559011.6	4243127.75	1.97E-08	1.65YrCancerDerived_Inh_FAH3to16	1.97E-08
145	ALL	559171.6	4242807.75	1.96E-08	1.65YrCancerDerived_Inh_FAH3to16	1.96E-08
592	ALL	559071.6	4243007.75	1.96E-08	1.65YrCancerDerived_Inh_FAH3to16	1.96E-08
681	ALL	559031.6	4243047.75	1.96E-08	1.65YrCancerDerived_Inh_FAH3to16	1.96E-08
1079	ALL	559871.6	4243207.75	1.96E-08	1.65YrCancerDerived_Inh_FAH3to16	1.96E-08
324	ALL	559151.6	4242887.75	1.96E-08	1.65YrCancerDerived_Inh_FAH3to16	1.96E-08
503	ALL	559111.6	4242967.75	1.96E-08	1.65YrCancerDerived_Inh_FAH3to16	1.96E-08
1323	ALL	559951.6	4243327.75	1.95E-08	1.65YrCancerDerived_Inh_FAH3to16	1.95E-08
817	ALL	559011.6	4243107.75	1.95E-08	1.65YrCancerDerived_Inh_FAH3to16	1.95E-08
2119	ALL	559171.6	4243687.75	1.95E-08	1.65YrCancerDerived_Inh_FAH3to16	1.95E-08
548	ALL	559091.6	4242987.75	1.95E-08	1.65YrCancerDerived_Inh_FAH3to16	1.95E-08
531	ALL	559751.6	4242967.75	1.95E-08	1.65YrCancerDerived_Inh_FAH3to16	1.95E-08
1168	ALL	559011.6	4243267.75	1.94E-08	1.65YrCancerDerived_Inh_FAH3to16	1.94E-08
852	ALL	559811.6	4243107.75	1.94E-08	1.65YrCancerDerived_Inh_FAH3to16	1.94E-08
761	ALL	559791.6	4243067.75	1.94E-08	1.65YrCancerDerived_Inh_FAH3to16	1.94E-08
394	ALL	559731.6	4242907.75	1.94E-08	1.65YrCancerDerived_Inh_FAH3to16	1.94E-08
772	ALL	559011.6	4243087.75	1.93E-08	1.65YrCancerDerived_Inh_FAH3to16	1.93E-08
257	ALL	559711.6	4242847.75	1.93E-08	1.65YrCancerDerived_Inh_FAH3to16	1.93E-08
1327	ALL	559031.6	4243347.75	1.92E-08	1.65YrCancerDerived_Inh_FAH3to16	1.92E-08
1694	ALL	559111.6	4243507.75	1.92E-08	1.65YrCancerDerived_Inh_FAH3to16	1.92E-08
100	ALL	559171.6	4242787.75	1.92E-08	1.65YrCancerDerived_Inh_FAH3to16	1.92E-08
1927	ALL	559151.6	4243607.75	1.92E-08	1.65YrCancerDerived_Inh_FAH3to16	1.92E-08
1416	ALL	559051.6	4243387.75	1.91E-08	1.65YrCancerDerived_Inh_FAH3to16	1.91E-08
1203	ALL	559011.6	4243287.75	1.91E-08	1.65YrCancerDerived_Inh_FAH3to16	1.91E-08
1601	ALL	559091.6	4243467.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
414	ALL	559131.6	4242927.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
1238	ALL	559931.6	4243287.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
988	ALL	559851.6	4243167.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
121	ALL	559691.6	4242787.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
1123	ALL	559891.6	4243227.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
2167	ALL	559171.6	4243707.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
1508	ALL	559071.6	4243427.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
726	ALL	559011.6	4243067.75	1.90E-08	1.65YrCancerDerived_Inh_FAH3to16	1.90E-08
279	ALL	559151.6	4242867.75	1.89E-08	1.65YrCancerDerived_Inh_FAH3to16	1.89E-08
622	ALL	559771.6	4243007.75	1.89E-08	1.65YrCancerDerived_Inh_FAH3to16	1.89E-08
1368	ALL	559971.6	4243347.75	1.88E-08	1.65YrCancerDerived_Inh_FAH3to16	1.88E-08
55	ALL	559171.6	4242767.75	1.88E-08	1.65YrCancerDerived_Inh_FAH3to16	1.88E-08
485	ALL	559751.6	4242947.75	1.87E-08	1.65YrCancerDerived_Inh_FAH3to16	1.87E-08
1040	ALL	558991.6	4243207.75	1.87E-08	1.65YrCancerDerived_Inh_FAH3to16	1.87E-08
1242	ALL	559011.6	4243307.75	1.87E-08	1.65YrCancerDerived_Inh_FAH3to16	1.87E-08
348	ALL	559731.6	4242887.75	1.87E-08	1.65YrCancerDerived_Inh_FAH3to16	1.87E-08
995	ALL	558991.6	4243187.75	1.87E-08	1.65YrCancerDerived_Inh_FAH3to16	1.87E-08
2215	ALL	559171.6	4243727.75	1.86E-08	1.65YrCancerDerived_Inh_FAH3to16	1.86E-08
951	ALL	558991.6	4243167.75	1.86E-08	1.65YrCancerDerived_Inh_FAH3to16	1.86E-08
898	ALL	559831.6	4243127.75	1.86E-08	1.65YrCancerDerived_Inh_FAH3to16	1.86E-08
212	ALL	559711.6	4242827.75	1.86E-08	1.65YrCancerDerived_Inh_FAH3to16	1.86E-08
635	ALL	559031.6	4243027.75	1.85E-08	1.65YrCancerDerived_Inh_FAH3to16	1.85E-08
1975	ALL	559151.6	4243627.75	1.85E-08	1.65YrCancerDerived_Inh_FAH3to16	1.85E-08
715	ALL	559791.6	4243047.75	1.85E-08	1.65YrCancerDerived_Inh_FAH3to16	1.85E-08
1085	ALL	558991.6	4243227.75	1.85E-08	1.65YrCancerDerived_Inh_FAH3to16	1.85E-08
234	ALL	559151.6	4242847.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
906	ALL	558991.6	4243147.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
1163	ALL	559911.6	4243247.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
591	ALL	559051.6	4243007.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
807	ALL	559811.6	4243087.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
1280	ALL	559951.6	4243307.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
680	ALL	559011.6	4243047.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
458	ALL	559111.6	4242947.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
1034	ALL	559871.6	4243187.75	1.84E-08	1.65YrCancerDerived_Inh_FAH3to16	1.84E-08
1371	ALL	559031.6	4243367.75	1.83E-08	1.65YrCancerDerived_Inh_FAH3to16	1.83E-08
76	ALL	559691.6	4242767.75	1.83E-08	1.65YrCancerDerived_Inh_FAH3to16	1.83E-08
368	ALL	559131.6	4242907.75	1.83E-08	1.65YrCancerDerived_Inh_FAH3to16	1.83E-08
10	ALL	559171.6	4242747.75	1.83E-08	1.65YrCancerDerived_Inh_FAH3to16	1.83E-08
547	ALL	559071.6	4242987.75	1.82E-08	1.65YrCancerDerived_Inh_FAH3to16	1.82E-08
1283	ALL	559011.6	4243327.75	1.82E-08	1.65YrCancerDerived_Inh_FAH3to16	1.82E-08
502	ALL	559091.6	4242967.75	1.81E-08	1.65YrCancerDerived_Inh_FAH3to16	1.81E-08
861	ALL	558991.6	4243127.75	1.81E-08	1.65YrCancerDerived_Inh_FAH3to16	1.81E-08

577	ALL	559771.6	4242987.75	1.81E-08	1.65YrCancerDerived_Inh_FAH3to16	1.81E-08
1128	ALL	558991.6	4243247.75	1.81E-08	1.65YrCancerDerived_Inh_FAH3to16	1.81E-08
1647	ALL	559091.6	4243487.75	1.81E-08	1.65YrCancerDerived_Inh_FAH3to16	1.81E-08
1461	ALL	559051.6	4243407.75	1.81E-08	1.65YrCancerDerived_Inh_FAH3to16	1.81E-08
189	ALL	559151.6	4242827.75	1.80E-08	1.65YrCancerDerived_Inh_FAH3to16	1.80E-08
1554	ALL	559071.6	4243447.75	1.80E-08	1.65YrCancerDerived_Inh_FAH3to16	1.80E-08
440	ALL	559751.6	4242927.75	1.80E-08	1.65YrCancerDerived_Inh_FAH3to16	1.80E-08
303	ALL	559731.6	4242867.75	1.80E-08	1.65YrCancerDerived_Inh_FAH3to16	1.80E-08
816	ALL	558991.6	4243107.75	1.79E-08	1.65YrCancerDerived_Inh_FAH3to16	1.79E-08
167	ALL	559711.6	4242807.75	1.79E-08	1.65YrCancerDerived_Inh_FAH3to16	1.79E-08
1199	ALL	559931.6	4243267.75	1.79E-08	1.65YrCancerDerived_Inh_FAH3to16	1.79E-08
944	ALL	559851.6	4243147.75	1.78E-08	1.65YrCancerDerived_Inh_FAH3to16	1.78E-08
2022	ALL	559151.6	4243647.75	1.78E-08	1.65YrCancerDerived_Inh_FAH3to16	1.78E-08
1080	ALL	559891.6	4243207.75	1.78E-08	1.65YrCancerDerived_Inh_FAH3to16	1.78E-08
771	ALL	558991.6	4243087.75	1.78E-08	1.65YrCancerDerived_Inh_FAH3to16	1.78E-08
1324	ALL	559971.6	4243327.75	1.77E-08	1.65YrCancerDerived_Inh_FAH3to16	1.77E-08
1167	ALL	558991.6	4243267.75	1.77E-08	1.65YrCancerDerived_Inh_FAH3to16	1.77E-08
669	ALL	559791.6	4243027.75	1.77E-08	1.65YrCancerDerived_Inh_FAH3to16	1.77E-08
144	ALL	559151.6	4242807.75	1.76E-08	1.65YrCancerDerived_Inh_FAH3to16	1.76E-08
323	ALL	559131.6	4242887.75	1.76E-08	1.65YrCancerDerived_Inh_FAH3to16	1.76E-08
634	ALL	559011.6	4243027.75	1.75E-08	1.65YrCancerDerived_Inh_FAH3to16	1.75E-08
853	ALL	559831.6	4243107.75	1.75E-08	1.65YrCancerDerived_Inh_FAH3to16	1.75E-08
725	ALL	558991.6	4243067.75	1.75E-08	1.65YrCancerDerived_Inh_FAH3to16	1.75E-08
1326	ALL	559011.6	4243347.75	1.75E-08	1.65YrCancerDerived_Inh_FAH3to16	1.75E-08
762	ALL	559811.6	4243067.75	1.75E-08	1.65YrCancerDerived_Inh_FAH3to16	1.75E-08
532	ALL	559771.6	4242967.75	1.74E-08	1.65YrCancerDerived_Inh_FAH3to16	1.74E-08
590	ALL	559031.6	4243007.75	1.74E-08	1.65YrCancerDerived_Inh_FAH3to16	1.74E-08
1202	ALL	558991.6	4243287.75	1.74E-08	1.65YrCancerDerived_Inh_FAH3to16	1.74E-08
395	ALL	559751.6	4242907.75	1.74E-08	1.65YrCancerDerived_Inh_FAH3to16	1.74E-08
413	ALL	559111.6	4242927.75	1.74E-08	1.65YrCancerDerived_Inh_FAH3to16	1.74E-08
258	ALL	559731.6	4242847.75	1.74E-08	1.65YrCancerDerived_Inh_FAH3to16	1.74E-08
1415	ALL	559031.6	4243387.75	1.74E-08	1.65YrCancerDerived_Inh_FAH3to16	1.74E-08
1239	ALL	559951.6	4243287.75	1.73E-08	1.65YrCancerDerived_Inh_FAH3to16	1.73E-08
2070	ALL	559151.6	4243667.75	1.73E-08	1.65YrCancerDerived_Inh_FAH3to16	1.73E-08
1124	ALL	559911.6	4243227.75	1.73E-08	1.65YrCancerDerived_Inh_FAH3to16	1.73E-08
122	ALL	559711.6	4242787.75	1.72E-08	1.65YrCancerDerived_Inh_FAH3to16	1.72E-08
1693	ALL	559091.6	4243507.75	1.72E-08	1.65YrCancerDerived_Inh_FAH3to16	1.72E-08
99	ALL	559151.6	4242787.75	1.72E-08	1.65YrCancerDerived_Inh_FAH3to16	1.72E-08
989	ALL	559871.6	4243167.75	1.72E-08	1.65YrCancerDerived_Inh_FAH3to16	1.72E-08
1600	ALL	559071.6	4243467.75	1.72E-08	1.65YrCancerDerived_Inh_FAH3to16	1.72E-08
546	ALL	559051.6	4242987.75	1.71E-08	1.65YrCancerDerived_Inh_FAH3to16	1.71E-08
1507	ALL	559051.6	4243427.75	1.71E-08	1.65YrCancerDerived_Inh_FAH3to16	1.71E-08
1241	ALL	558991.6	4243307.75	1.71E-08	1.65YrCancerDerived_Inh_FAH3to16	1.71E-08
679	ALL	558991.6	4243047.75	1.71E-08	1.65YrCancerDerived_Inh_FAH3to16	1.71E-08
278	ALL	559131.6	4242867.75	1.71E-08	1.65YrCancerDerived_Inh_FAH3to16	1.71E-08
501	ALL	559071.6	4242967.75	1.70E-08	1.65YrCancerDerived_Inh_FAH3to16	1.70E-08
457	ALL	559091.6	4242947.75	1.70E-08	1.65YrCancerDerived_Inh_FAH3to16	1.70E-08
623	ALL	559791.6	4243007.75	1.69E-08	1.65YrCancerDerived_Inh_FAH3to16	1.69E-08
54	ALL	559151.6	4242767.75	1.69E-08	1.65YrCancerDerived_Inh_FAH3to16	1.69E-08
899	ALL	559851.6	4243127.75	1.68E-08	1.65YrCancerDerived_Inh_FAH3to16	1.68E-08
2118	ALL	559151.6	4243687.75	1.68E-08	1.65YrCancerDerived_Inh_FAH3to16	1.68E-08
349	ALL	559751.6	4242887.75	1.68E-08	1.65YrCancerDerived_Inh_FAH3to16	1.68E-08
486	ALL	559771.6	4242947.75	1.68E-08	1.65YrCancerDerived_Inh_FAH3to16	1.68E-08
213	ALL	559731.6	4242827.75	1.68E-08	1.65YrCancerDerived_Inh_FAH3to16	1.68E-08
1164	ALL	559931.6	4243247.75	1.68E-08	1.65YrCancerDerived_Inh_FAH3to16	1.68E-08
1281	ALL	559971.6	4243307.75	1.67E-08	1.65YrCancerDerived_Inh_FAH3to16	1.67E-08
1370	ALL	559011.6	4243367.75	1.67E-08	1.65YrCancerDerived_Inh_FAH3to16	1.67E-08
1035	ALL	559891.6	4243187.75	1.67E-08	1.65YrCancerDerived_Inh_FAH3to16	1.67E-08
77	ALL	559711.6	4242767.75	1.66E-08	1.65YrCancerDerived_Inh_FAH3to16	1.66E-08
716	ALL	559811.6	4243047.75	1.66E-08	1.65YrCancerDerived_Inh_FAH3to16	1.66E-08
1282	ALL	558991.6	4243327.75	1.66E-08	1.65YrCancerDerived_Inh_FAH3to16	1.66E-08
233	ALL	559131.6	4242847.75	1.66E-08	1.65YrCancerDerived_Inh_FAH3to16	1.66E-08
808	ALL	559831.6	4243087.75	1.66E-08	1.65YrCancerDerived_Inh_FAH3to16	1.66E-08
367	ALL	559111.6	4242907.75	1.66E-08	1.65YrCancerDerived_Inh_FAH3to16	1.66E-08
589	ALL	559011.6	4243007.75	1.66E-08	1.65YrCancerDerived_Inh_FAH3to16	1.66E-08
1831	ALL	559111.6	4243567.75	1.65E-08	1.65YrCancerDerived_Inh_FAH3to16	1.65E-08
9	ALL	559151.6	4242747.75	1.65E-08	1.65YrCancerDerived_Inh_FAH3to16	1.65E-08
1739	ALL	559091.6	4243527.75	1.65E-08	1.65YrCancerDerived_Inh_FAH3to16	1.65E-08
2166	ALL	559151.6	4243707.75	1.64E-08	1.65YrCancerDerived_Inh_FAH3to16	1.64E-08
633	ALL	558991.6	4243027.75	1.64E-08	1.65YrCancerDerived_Inh_FAH3to16	1.64E-08
1460	ALL	559031.6	4243407.75	1.64E-08	1.65YrCancerDerived_Inh_FAH3to16	1.64E-08
1646	ALL	559071.6	4243487.75	1.63E-08	1.65YrCancerDerived_Inh_FAH3to16	1.63E-08
1553	ALL	559051.6	4243447.75	1.63E-08	1.65YrCancerDerived_Inh_FAH3to16	1.63E-08
545	ALL	559031.6	4242987.75	1.63E-08	1.65YrCancerDerived_Inh_FAH3to16	1.63E-08

578	ALL	559791.6	4242987.75	1.63E-08	1.65YrCancerDerived_Inh_FAH3to16	1.63E-08
1200	ALL	559951.6	4243267.75	1.63E-08	1.65YrCancerDerived_Inh_FAH3to16	1.63E-08
1974	ALL	559131.6	4243627.75	1.62E-08	1.65YrCancerDerived_Inh_FAH3to16	1.62E-08
304	ALL	559751.6	4242867.75	1.62E-08	1.65YrCancerDerived_Inh_FAH3to16	1.62E-08
168	ALL	559731.6	4242807.75	1.62E-08	1.65YrCancerDerived_Inh_FAH3to16	1.62E-08
441	ALL	559771.6	4242927.75	1.62E-08	1.65YrCancerDerived_Inh_FAH3to16	1.62E-08
945	ALL	559871.6	4243147.75	1.62E-08	1.65YrCancerDerived_Inh_FAH3to16	1.62E-08
188	ALL	559131.6	4242827.75	1.62E-08	1.65YrCancerDerived_Inh_FAH3to16	1.62E-08
1081	ALL	559911.6	4243207.75	1.62E-08	1.65YrCancerDerived_Inh_FAH3to16	1.62E-08
2214	ALL	559151.6	4243727.75	1.61E-08	1.65YrCancerDerived_Inh_FAH3to16	1.61E-08
32	ALL	559711.6	4242747.75	1.61E-08	1.65YrCancerDerived_Inh_FAH3to16	1.61E-08
1325	ALL	558991.6	4243347.75	1.60E-08	1.65YrCancerDerived_Inh_FAH3to16	1.60E-08
412	ALL	559091.6	4242927.75	1.60E-08	1.65YrCancerDerived_Inh_FAH3to16	1.60E-08
500	ALL	559051.6	4242967.75	1.60E-08	1.65YrCancerDerived_Inh_FAH3to16	1.60E-08
322	ALL	559111.6	4242887.75	1.60E-08	1.65YrCancerDerived_Inh_FAH3to16	1.60E-08
670	ALL	559811.6	4243027.75	1.59E-08	1.65YrCancerDerived_Inh_FAH3to16	1.59E-08
456	ALL	559071.6	4242947.75	1.59E-08	1.65YrCancerDerived_Inh_FAH3to16	1.59E-08
854	ALL	559851.6	4243107.75	1.59E-08	1.65YrCancerDerived_Inh_FAH3to16	1.59E-08
1414	ALL	559011.6	4243387.75	1.59E-08	1.65YrCancerDerived_Inh_FAH3to16	1.59E-08
143	ALL	559131.6	4242807.75	1.58E-08	1.65YrCancerDerived_Inh_FAH3to16	1.58E-08
763	ALL	559831.6	4243067.75	1.58E-08	1.65YrCancerDerived_Inh_FAH3to16	1.58E-08
1240	ALL	559971.6	4243287.75	1.58E-08	1.65YrCancerDerived_Inh_FAH3to16	1.58E-08
1125	ALL	559931.6	4243227.75	1.57E-08	1.65YrCancerDerived_Inh_FAH3to16	1.57E-08
259	ALL	559751.6	4242847.75	1.57E-08	1.65YrCancerDerived_Inh_FAH3to16	1.57E-08
123	ALL	559731.6	4242787.75	1.57E-08	1.65YrCancerDerived_Inh_FAH3to16	1.57E-08
533	ALL	559791.6	4242967.75	1.57E-08	1.65YrCancerDerived_Inh_FAH3to16	1.57E-08
2021	ALL	559131.6	4243647.75	1.57E-08	1.65YrCancerDerived_Inh_FAH3to16	1.57E-08
396	ALL	559771.6	4242907.75	1.57E-08	1.65YrCancerDerived_Inh_FAH3to16	1.57E-08
990	ALL	559891.6	4243167.75	1.57E-08	1.65YrCancerDerived_Inh_FAH3to16	1.57E-08
588	ALL	558991.6	4243007.75	1.56E-08	1.65YrCancerDerived_Inh_FAH3to16	1.56E-08
1506	ALL	559031.6	4243427.75	1.56E-08	1.65YrCancerDerived_Inh_FAH3to16	1.56E-08
1692	ALL	559071.6	4243507.75	1.56E-08	1.65YrCancerDerived_Inh_FAH3to16	1.56E-08
1599	ALL	559051.6	4243467.75	1.56E-08	1.65YrCancerDerived_Inh_FAH3to16	1.56E-08
544	ALL	559011.6	4242987.75	1.55E-08	1.65YrCancerDerived_Inh_FAH3to16	1.55E-08
277	ALL	559111.6	4242867.75	1.55E-08	1.65YrCancerDerived_Inh_FAH3to16	1.55E-08
98	ALL	559131.6	4242787.75	1.54E-08	1.65YrCancerDerived_Inh_FAH3to16	1.54E-08
1369	ALL	558991.6	4243367.75	1.54E-08	1.65YrCancerDerived_Inh_FAH3to16	1.54E-08
1165	ALL	559951.6	4243247.75	1.53E-08	1.65YrCancerDerived_Inh_FAH3to16	1.53E-08
900	ALL	559871.6	4243127.75	1.53E-08	1.65YrCancerDerived_Inh_FAH3to16	1.53E-08
624	ALL	559811.6	4243007.75	1.53E-08	1.65YrCancerDerived_Inh_FAH3to16	1.53E-08
366	ALL	559091.6	4242907.75	1.53E-08	1.65YrCancerDerived_Inh_FAH3to16	1.53E-08
214	ALL	559751.6	4242827.75	1.52E-08	1.65YrCancerDerived_Inh_FAH3to16	1.52E-08
1036	ALL	559911.6	4243187.75	1.52E-08	1.65YrCancerDerived_Inh_FAH3to16	1.52E-08
499	ALL	559031.6	4242967.75	1.52E-08	1.65YrCancerDerived_Inh_FAH3to16	1.52E-08
78	ALL	559731.6	4242767.75	1.52E-08	1.65YrCancerDerived_Inh_FAH3to16	1.52E-08
53	ALL	559131.6	4242767.75	1.52E-08	1.65YrCancerDerived_Inh_FAH3to16	1.52E-08
350	ALL	559771.6	4242887.75	1.52E-08	1.65YrCancerDerived_Inh_FAH3to16	1.52E-08
487	ALL	559791.6	4242947.75	1.51E-08	1.65YrCancerDerived_Inh_FAH3to16	1.51E-08
2069	ALL	559131.6	4243667.75	1.51E-08	1.65YrCancerDerived_Inh_FAH3to16	1.51E-08
809	ALL	559851.6	4243087.75	1.51E-08	1.65YrCancerDerived_Inh_FAH3to16	1.51E-08
717	ALL	559831.6	4243047.75	1.51E-08	1.65YrCancerDerived_Inh_FAH3to16	1.51E-08
1830	ALL	559091.6	4243567.75	1.51E-08	1.65YrCancerDerived_Inh_FAH3to16	1.51E-08
1459	ALL	559011.6	4243407.75	1.51E-08	1.65YrCancerDerived_Inh_FAH3to16	1.51E-08
8	ALL	559131.6	4242747.75	1.50E-08	1.65YrCancerDerived_Inh_FAH3to16	1.50E-08
232	ALL	559111.6	4242847.75	1.50E-08	1.65YrCancerDerived_Inh_FAH3to16	1.50E-08
455	ALL	559051.6	4242947.75	1.50E-08	1.65YrCancerDerived_Inh_FAH3to16	1.50E-08
411	ALL	559071.6	4242927.75	1.50E-08	1.65YrCancerDerived_Inh_FAH3to16	1.50E-08
1738	ALL	559071.6	4243527.75	1.49E-08	1.65YrCancerDerived_Inh_FAH3to16	1.49E-08
1645	ALL	559051.6	4243487.75	1.49E-08	1.65YrCancerDerived_Inh_FAH3to16	1.49E-08
1201	ALL	559971.6	4243267.75	1.49E-08	1.65YrCancerDerived_Inh_FAH3to16	1.49E-08
1552	ALL	559031.6	4243447.75	1.49E-08	1.65YrCancerDerived_Inh_FAH3to16	1.49E-08
543	ALL	558991.6	4242987.75	1.48E-08	1.65YrCancerDerived_Inh_FAH3to16	1.48E-08
1082	ALL	559931.6	4243207.75	1.48E-08	1.65YrCancerDerived_Inh_FAH3to16	1.48E-08
946	ALL	559891.6	4243147.75	1.48E-08	1.65YrCancerDerived_Inh_FAH3to16	1.48E-08
169	ALL	559751.6	4242807.75	1.47E-08	1.65YrCancerDerived_Inh_FAH3to16	1.47E-08
579	ALL	559811.6	4242987.75	1.47E-08	1.65YrCancerDerived_Inh_FAH3to16	1.47E-08
33	ALL	559731.6	4242747.75	1.47E-08	1.65YrCancerDerived_Inh_FAH3to16	1.47E-08
305	ALL	559771.6	4242867.75	1.47E-08	1.65YrCancerDerived_Inh_FAH3to16	1.47E-08
2117	ALL	559131.6	4243687.75	1.47E-08	1.65YrCancerDerived_Inh_FAH3to16	1.47E-08
442	ALL	559791.6	4242927.75	1.47E-08	1.65YrCancerDerived_Inh_FAH3to16	1.47E-08
321	ALL	559091.6	4242887.75	1.46E-08	1.65YrCancerDerived_Inh_FAH3to16	1.46E-08
1413	ALL	558991.6	4243387.75	1.46E-08	1.65YrCancerDerived_Inh_FAH3to16	1.46E-08
187	ALL	559111.6	4242827.75	1.45E-08	1.65YrCancerDerived_Inh_FAH3to16	1.45E-08
855	ALL	559871.6	4243107.75	1.45E-08	1.65YrCancerDerived_Inh_FAH3to16	1.45E-08

671	ALL	559831.6	4243027.75	1.45E-08	1.65YrCancerDerived_Inh_FAH3to16	1.45E-08
498	ALL	559011.6	4242967.75	1.44E-08	1.65YrCancerDerived_Inh_FAH3to16	1.44E-08
1126	ALL	559951.6	4243227.75	1.44E-08	1.65YrCancerDerived_Inh_FAH3to16	1.44E-08
764	ALL	559851.6	4243067.75	1.44E-08	1.65YrCancerDerived_Inh_FAH3to16	1.44E-08
2165	ALL	559131.6	4243707.75	1.44E-08	1.65YrCancerDerived_Inh_FAH3to16	1.44E-08
991	ALL	559911.6	4243167.75	1.43E-08	1.65YrCancerDerived_Inh_FAH3to16	1.43E-08
1878	ALL	559091.6	4243587.75	1.43E-08	1.65YrCancerDerived_Inh_FAH3to16	1.43E-08
1784	ALL	559071.6	4243547.75	1.43E-08	1.65YrCancerDerived_Inh_FAH3to16	1.43E-08
1505	ALL	559011.6	4243427.75	1.43E-08	1.65YrCancerDerived_Inh_FAH3to16	1.43E-08
124	ALL	559751.6	4242787.75	1.43E-08	1.65YrCancerDerived_Inh_FAH3to16	1.43E-08
260	ALL	559771.6	4242847.75	1.43E-08	1.65YrCancerDerived_Inh_FAH3to16	1.43E-08
1691	ALL	559051.6	4243507.75	1.43E-08	1.65YrCancerDerived_Inh_FAH3to16	1.43E-08
534	ALL	559811.6	4242967.75	1.42E-08	1.65YrCancerDerived_Inh_FAH3to16	1.42E-08
397	ALL	559791.6	4242907.75	1.42E-08	1.65YrCancerDerived_Inh_FAH3to16	1.42E-08
142	ALL	559111.6	4242807.75	1.42E-08	1.65YrCancerDerived_Inh_FAH3to16	1.42E-08
365	ALL	559071.6	4242907.75	1.42E-08	1.65YrCancerDerived_Inh_FAH3to16	1.42E-08
1598	ALL	559031.6	4243467.75	1.42E-08	1.65YrCancerDerived_Inh_FAH3to16	1.42E-08
454	ALL	559031.6	4242947.75	1.41E-08	1.65YrCancerDerived_Inh_FAH3to16	1.41E-08
2213	ALL	559131.6	4243727.75	1.41E-08	1.65YrCancerDerived_Inh_FAH3to16	1.41E-08
276	ALL	559091.6	4242867.75	1.41E-08	1.65YrCancerDerived_Inh_FAH3to16	1.41E-08
1166	ALL	559971.6	4243247.75	1.40E-08	1.65YrCancerDerived_Inh_FAH3to16	1.40E-08
410	ALL	559051.6	4242927.75	1.40E-08	1.65YrCancerDerived_Inh_FAH3to16	1.40E-08
901	ALL	559891.6	4243127.75	1.40E-08	1.65YrCancerDerived_Inh_FAH3to16	1.40E-08
97	ALL	559111.6	4242787.75	1.39E-08	1.65YrCancerDerived_Inh_FAH3to16	1.39E-08
1037	ALL	559931.6	4243187.75	1.39E-08	1.65YrCancerDerived_Inh_FAH3to16	1.39E-08
625	ALL	559831.6	4243007.75	1.39E-08	1.65YrCancerDerived_Inh_FAH3to16	1.39E-08
79	ALL	559751.6	4242767.75	1.39E-08	1.65YrCancerDerived_Inh_FAH3to16	1.39E-08
1458	ALL	558991.6	4243407.75	1.39E-08	1.65YrCancerDerived_Inh_FAH3to16	1.39E-08
215	ALL	559771.6	4242827.75	1.38E-08	1.65YrCancerDerived_Inh_FAH3to16	1.38E-08
497	ALL	558991.6	4242967.75	1.38E-08	1.65YrCancerDerived_Inh_FAH3to16	1.38E-08
810	ALL	559871.6	4243087.75	1.38E-08	1.65YrCancerDerived_Inh_FAH3to16	1.38E-08
351	ALL	559791.6	4242887.75	1.38E-08	1.65YrCancerDerived_Inh_FAH3to16	1.38E-08
1926	ALL	559091.6	4243607.75	1.38E-08	1.65YrCancerDerived_Inh_FAH3to16	1.38E-08
52	ALL	559111.6	4242767.75	1.38E-08	1.65YrCancerDerived_Inh_FAH3to16	1.38E-08
718	ALL	559851.6	4243047.75	1.37E-08	1.65YrCancerDerived_Inh_FAH3to16	1.37E-08
488	ALL	559811.6	4242947.75	1.37E-08	1.65YrCancerDerived_Inh_FAH3to16	1.37E-08
1829	ALL	559071.6	4243567.75	1.37E-08	1.65YrCancerDerived_Inh_FAH3to16	1.37E-08
1737	ALL	559051.6	4243527.75	1.37E-08	1.65YrCancerDerived_Inh_FAH3to16	1.37E-08
1551	ALL	559011.6	4243447.75	1.36E-08	1.65YrCancerDerived_Inh_FAH3to16	1.36E-08
1083	ALL	559951.6	4243207.75	1.36E-08	1.65YrCancerDerived_Inh_FAH3to16	1.36E-08
1644	ALL	559031.6	4243487.75	1.36E-08	1.65YrCancerDerived_Inh_FAH3to16	1.36E-08
947	ALL	559911.6	4243147.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
231	ALL	559091.6	4242847.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
7	ALL	559111.6	4242747.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
2068	ALL	559111.6	4243667.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
320	ALL	559071.6	4242887.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
453	ALL	559011.6	4242947.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
34	ALL	559751.6	4242747.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
170	ALL	559771.6	4242807.75	1.35E-08	1.65YrCancerDerived_Inh_FAH3to16	1.35E-08
580	ALL	559831.6	4242987.75	1.34E-08	1.65YrCancerDerived_Inh_FAH3to16	1.34E-08
306	ALL	559791.6	4242867.75	1.34E-08	1.65YrCancerDerived_Inh_FAH3to16	1.34E-08
443	ALL	559811.6	4242927.75	1.33E-08	1.65YrCancerDerived_Inh_FAH3to16	1.33E-08
856	ALL	559891.6	4243107.75	1.33E-08	1.65YrCancerDerived_Inh_FAH3to16	1.33E-08
1127	ALL	559971.6	4243227.75	1.33E-08	1.65YrCancerDerived_Inh_FAH3to16	1.33E-08
364	ALL	559051.6	4242907.75	1.33E-08	1.65YrCancerDerived_Inh_FAH3to16	1.33E-08
1877	ALL	559071.6	4243587.75	1.32E-08	1.65YrCancerDerived_Inh_FAH3to16	1.32E-08
672	ALL	559851.6	4243027.75	1.32E-08	1.65YrCancerDerived_Inh_FAH3to16	1.32E-08
992	ALL	559931.6	4243167.75	1.32E-08	1.65YrCancerDerived_Inh_FAH3to16	1.32E-08
409	ALL	559031.6	4242927.75	1.32E-08	1.65YrCancerDerived_Inh_FAH3to16	1.32E-08
1504	ALL	558991.6	4243427.75	1.32E-08	1.65YrCancerDerived_Inh_FAH3to16	1.32E-08
186	ALL	559091.6	4242827.75	1.32E-08	1.65YrCancerDerived_Inh_FAH3to16	1.32E-08
765	ALL	559871.6	4243067.75	1.31E-08	1.65YrCancerDerived_Inh_FAH3to16	1.31E-08
1783	ALL	559051.6	4243547.75	1.31E-08	1.65YrCancerDerived_Inh_FAH3to16	1.31E-08
2116	ALL	559111.6	4243687.75	1.31E-08	1.65YrCancerDerived_Inh_FAH3to16	1.31E-08
125	ALL	559771.6	4242787.75	1.31E-08	1.65YrCancerDerived_Inh_FAH3to16	1.31E-08
1690	ALL	559031.6	4243507.75	1.31E-08	1.65YrCancerDerived_Inh_FAH3to16	1.31E-08
261	ALL	559791.6	4242847.75	1.30E-08	1.65YrCancerDerived_Inh_FAH3to16	1.30E-08
1597	ALL	559011.6	4243467.75	1.30E-08	1.65YrCancerDerived_Inh_FAH3to16	1.30E-08
535	ALL	559831.6	4242967.75	1.29E-08	1.65YrCancerDerived_Inh_FAH3to16	1.29E-08
398	ALL	559811.6	4242907.75	1.29E-08	1.65YrCancerDerived_Inh_FAH3to16	1.29E-08
141	ALL	559091.6	4242807.75	1.29E-08	1.65YrCancerDerived_Inh_FAH3to16	1.29E-08
275	ALL	559071.6	4242867.75	1.29E-08	1.65YrCancerDerived_Inh_FAH3to16	1.29E-08
452	ALL	558991.6	4242947.75	1.29E-08	1.65YrCancerDerived_Inh_FAH3to16	1.29E-08
902	ALL	559911.6	4243127.75	1.28E-08	1.65YrCancerDerived_Inh_FAH3to16	1.28E-08

1038	ALL	559951.6	4243187.75	1.28E-08	1.65YrCancerDerived_Inh_FAH3to16	1.28E-08
2164	ALL	559111.6	4243707.75	1.27E-08	1.65YrCancerDerived_Inh_FAH3to16	1.27E-08
96	ALL	559091.6	4242787.75	1.27E-08	1.65YrCancerDerived_Inh_FAH3to16	1.27E-08
80	ALL	559771.6	4242767.75	1.27E-08	1.65YrCancerDerived_Inh_FAH3to16	1.27E-08
626	ALL	559851.6	4243007.75	1.27E-08	1.65YrCancerDerived_Inh_FAH3to16	1.27E-08
811	ALL	559891.6	4243087.75	1.27E-08	1.65YrCancerDerived_Inh_FAH3to16	1.27E-08
216	ALL	559791.6	4242827.75	1.26E-08	1.65YrCancerDerived_Inh_FAH3to16	1.26E-08
719	ALL	559871.6	4243047.75	1.26E-08	1.65YrCancerDerived_Inh_FAH3to16	1.26E-08
1828	ALL	559051.6	4243567.75	1.26E-08	1.65YrCancerDerived_Inh_FAH3to16	1.26E-08
1925	ALL	559071.6	4243607.75	1.26E-08	1.65YrCancerDerived_Inh_FAH3to16	1.26E-08
352	ALL	559811.6	4242887.75	1.26E-08	1.65YrCancerDerived_Inh_FAH3to16	1.26E-08
408	ALL	559011.6	4242927.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
1736	ALL	559031.6	4243527.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
319	ALL	559051.6	4242887.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
489	ALL	559831.6	4242947.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
1084	ALL	559971.6	4243207.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
1550	ALL	558991.6	4243447.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
363	ALL	559031.6	4242907.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
948	ALL	559931.6	4243147.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
51	ALL	559091.6	4242767.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
1643	ALL	559011.6	4243487.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
2212	ALL	559111.6	4243727.75	1.25E-08	1.65YrCancerDerived_Inh_FAH3to16	1.25E-08
230	ALL	559071.6	4242847.75	1.24E-08	1.65YrCancerDerived_Inh_FAH3to16	1.24E-08
35	ALL	559771.6	4242747.75	1.24E-08	1.65YrCancerDerived_Inh_FAH3to16	1.24E-08
171	ALL	559791.6	4242807.75	1.23E-08	1.65YrCancerDerived_Inh_FAH3to16	1.23E-08
6	ALL	559091.6	4242747.75	1.23E-08	1.65YrCancerDerived_Inh_FAH3to16	1.23E-08
581	ALL	559851.6	4242987.75	1.22E-08	1.65YrCancerDerived_Inh_FAH3to16	1.22E-08
307	ALL	559811.6	4242867.75	1.22E-08	1.65YrCancerDerived_Inh_FAH3to16	1.22E-08
857	ALL	559911.6	4243107.75	1.22E-08	1.65YrCancerDerived_Inh_FAH3to16	1.22E-08
444	ALL	559831.6	4242927.75	1.22E-08	1.65YrCancerDerived_Inh_FAH3to16	1.22E-08
993	ALL	559951.6	4243167.75	1.21E-08	1.65YrCancerDerived_Inh_FAH3to16	1.21E-08
185	ALL	559071.6	4242827.75	1.21E-08	1.65YrCancerDerived_Inh_FAH3to16	1.21E-08
673	ALL	559871.6	4243027.75	1.21E-08	1.65YrCancerDerived_Inh_FAH3to16	1.21E-08
766	ALL	559891.6	4243067.75	1.21E-08	1.65YrCancerDerived_Inh_FAH3to16	1.21E-08
1973	ALL	559071.6	4243627.75	1.21E-08	1.65YrCancerDerived_Inh_FAH3to16	1.21E-08
407	ALL	558991.6	4242927.75	1.21E-08	1.65YrCancerDerived_Inh_FAH3to16	1.21E-08
1876	ALL	559051.6	4243587.75	1.21E-08	1.65YrCancerDerived_Inh_FAH3to16	1.21E-08
1782	ALL	559031.6	4243547.75	1.20E-08	1.65YrCancerDerived_Inh_FAH3to16	1.20E-08
1689	ALL	559011.6	4243507.75	1.20E-08	1.65YrCancerDerived_Inh_FAH3to16	1.20E-08
274	ALL	559051.6	4242867.75	1.20E-08	1.65YrCancerDerived_Inh_FAH3to16	1.20E-08
126	ALL	559791.6	4242787.75	1.20E-08	1.65YrCancerDerived_Inh_FAH3to16	1.20E-08
1596	ALL	558991.6	4243467.75	1.19E-08	1.65YrCancerDerived_Inh_FAH3to16	1.19E-08
262	ALL	559811.6	4242847.75	1.19E-08	1.65YrCancerDerived_Inh_FAH3to16	1.19E-08
2115	ALL	559091.6	4243687.75	1.19E-08	1.65YrCancerDerived_Inh_FAH3to16	1.19E-08
1039	ALL	559971.6	4243187.75	1.19E-08	1.65YrCancerDerived_Inh_FAH3to16	1.19E-08
140	ALL	559071.6	4242807.75	1.19E-08	1.65YrCancerDerived_Inh_FAH3to16	1.19E-08
536	ALL	559851.6	4242967.75	1.19E-08	1.65YrCancerDerived_Inh_FAH3to16	1.19E-08
903	ALL	559931.6	4243127.75	1.18E-08	1.65YrCancerDerived_Inh_FAH3to16	1.18E-08
399	ALL	559831.6	4242907.75	1.18E-08	1.65YrCancerDerived_Inh_FAH3to16	1.18E-08
318	ALL	559031.6	4242887.75	1.18E-08	1.65YrCancerDerived_Inh_FAH3to16	1.18E-08
362	ALL	559011.6	4242907.75	1.18E-08	1.65YrCancerDerived_Inh_FAH3to16	1.18E-08
81	ALL	559791.6	4242767.75	1.17E-08	1.65YrCancerDerived_Inh_FAH3to16	1.17E-08
812	ALL	559911.6	4243087.75	1.17E-08	1.65YrCancerDerived_Inh_FAH3to16	1.17E-08
627	ALL	559871.6	4243007.75	1.17E-08	1.65YrCancerDerived_Inh_FAH3to16	1.17E-08
95	ALL	559071.6	4242787.75	1.16E-08	1.65YrCancerDerived_Inh_FAH3to16	1.16E-08
1827	ALL	559031.6	4243567.75	1.16E-08	1.65YrCancerDerived_Inh_FAH3to16	1.16E-08
1924	ALL	559051.6	4243607.75	1.16E-08	1.65YrCancerDerived_Inh_FAH3to16	1.16E-08
217	ALL	559811.6	4242827.75	1.16E-08	1.65YrCancerDerived_Inh_FAH3to16	1.16E-08
720	ALL	559891.6	4243047.75	1.16E-08	1.65YrCancerDerived_Inh_FAH3to16	1.16E-08
229	ALL	559051.6	4242847.75	1.16E-08	1.65YrCancerDerived_Inh_FAH3to16	1.16E-08
1735	ALL	559011.6	4243527.75	1.16E-08	1.65YrCancerDerived_Inh_FAH3to16	1.16E-08
949	ALL	559951.6	4243147.75	1.15E-08	1.65YrCancerDerived_Inh_FAH3to16	1.15E-08
353	ALL	559831.6	4242887.75	1.15E-08	1.65YrCancerDerived_Inh_FAH3to16	1.15E-08
2163	ALL	559091.6	4243707.75	1.15E-08	1.65YrCancerDerived_Inh_FAH3to16	1.15E-08
490	ALL	559851.6	4242947.75	1.15E-08	1.65YrCancerDerived_Inh_FAH3to16	1.15E-08
1642	ALL	558991.6	4243487.75	1.15E-08	1.65YrCancerDerived_Inh_FAH3to16	1.15E-08
36	ALL	559791.6	4242747.75	1.14E-08	1.65YrCancerDerived_Inh_FAH3to16	1.14E-08
50	ALL	559071.6	4242767.75	1.13E-08	1.65YrCancerDerived_Inh_FAH3to16	1.13E-08
361	ALL	558991.6	4242907.75	1.13E-08	1.65YrCancerDerived_Inh_FAH3to16	1.13E-08
172	ALL	559811.6	4242807.75	1.13E-08	1.65YrCancerDerived_Inh_FAH3to16	1.13E-08
858	ALL	559931.6	4243107.75	1.13E-08	1.65YrCancerDerived_Inh_FAH3to16	1.13E-08
582	ALL	559871.6	4242987.75	1.13E-08	1.65YrCancerDerived_Inh_FAH3to16	1.13E-08
994	ALL	559971.6	4243167.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
273	ALL	559031.6	4242867.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08

5	ALL	559071.6	4242747.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
317	ALL	559011.6	4242887.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
1972	ALL	559051.6	4243627.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
308	ALL	559831.6	4242867.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
184	ALL	559051.6	4242827.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
2211	ALL	559091.6	4243727.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
445	ALL	559851.6	4242927.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
1875	ALL	559031.6	4243587.75	1.12E-08	1.65YrCancerDerived_Inh_FAH3to16	1.12E-08
767	ALL	559911.6	4243067.75	1.11E-08	1.65YrCancerDerived_Inh_FAH3to16	1.11E-08
674	ALL	559891.6	4243027.75	1.11E-08	1.65YrCancerDerived_Inh_FAH3to16	1.11E-08
1781	ALL	559011.6	4243547.75	1.11E-08	1.65YrCancerDerived_Inh_FAH3to16	1.11E-08
1688	ALL	558991.6	4243507.75	1.10E-08	1.65YrCancerDerived_Inh_FAH3to16	1.10E-08
127	ALL	559811.6	4242787.75	1.10E-08	1.65YrCancerDerived_Inh_FAH3to16	1.10E-08
904	ALL	559951.6	4243127.75	1.10E-08	1.65YrCancerDerived_Inh_FAH3to16	1.10E-08
263	ALL	559831.6	4242847.75	1.09E-08	1.65YrCancerDerived_Inh_FAH3to16	1.09E-08
537	ALL	559871.6	4242967.75	1.09E-08	1.65YrCancerDerived_Inh_FAH3to16	1.09E-08
139	ALL	559051.6	4242807.75	1.09E-08	1.65YrCancerDerived_Inh_FAH3to16	1.09E-08
400	ALL	559851.6	4242907.75	1.09E-08	1.65YrCancerDerived_Inh_FAH3to16	1.09E-08
228	ALL	559031.6	4242847.75	1.08E-08	1.65YrCancerDerived_Inh_FAH3to16	1.08E-08
813	ALL	559931.6	4243087.75	1.08E-08	1.65YrCancerDerived_Inh_FAH3to16	1.08E-08
82	ALL	559811.6	4242767.75	1.08E-08	1.65YrCancerDerived_Inh_FAH3to16	1.08E-08
628	ALL	559891.6	4243007.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
1826	ALL	559011.6	4243567.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
1923	ALL	559031.6	4243607.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
2020	ALL	559051.6	4243647.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
721	ALL	559911.6	4243047.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
950	ALL	559971.6	4243147.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
218	ALL	559831.6	4242827.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
316	ALL	558991.6	4242887.75	1.07E-08	1.65YrCancerDerived_Inh_FAH3to16	1.07E-08
1734	ALL	558991.6	4243527.75	1.06E-08	1.65YrCancerDerived_Inh_FAH3to16	1.06E-08
272	ALL	559011.6	4242867.75	1.06E-08	1.65YrCancerDerived_Inh_FAH3to16	1.06E-08
94	ALL	559051.6	4242787.75	1.06E-08	1.65YrCancerDerived_Inh_FAH3to16	1.06E-08
354	ALL	559851.6	4242887.75	1.06E-08	1.65YrCancerDerived_Inh_FAH3to16	1.06E-08
491	ALL	559871.6	4242947.75	1.06E-08	1.65YrCancerDerived_Inh_FAH3to16	1.06E-08
37	ALL	559811.6	4242747.75	1.05E-08	1.65YrCancerDerived_Inh_FAH3to16	1.05E-08
859	ALL	559951.6	4243107.75	1.05E-08	1.65YrCancerDerived_Inh_FAH3to16	1.05E-08
173	ALL	559831.6	4242807.75	1.04E-08	1.65YrCancerDerived_Inh_FAH3to16	1.04E-08
183	ALL	559031.6	4242827.75	1.04E-08	1.65YrCancerDerived_Inh_FAH3to16	1.04E-08
49	ALL	559051.6	4242767.75	1.04E-08	1.65YrCancerDerived_Inh_FAH3to16	1.04E-08
583	ALL	559891.6	4242987.75	1.04E-08	1.65YrCancerDerived_Inh_FAH3to16	1.04E-08
1874	ALL	559011.6	4243587.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
2067	ALL	559051.6	4243667.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
768	ALL	559931.6	4243067.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
309	ALL	559851.6	4242867.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
4	ALL	559051.6	4242747.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
675	ALL	559911.6	4243027.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
1971	ALL	559031.6	4243627.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
1780	ALL	558991.6	4243547.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
446	ALL	559871.6	4242927.75	1.03E-08	1.65YrCancerDerived_Inh_FAH3to16	1.03E-08
2210	ALL	559071.6	4243727.75	1.02E-08	1.65YrCancerDerived_Inh_FAH3to16	1.02E-08
905	ALL	559971.6	4243127.75	1.02E-08	1.65YrCancerDerived_Inh_FAH3to16	1.02E-08
128	ALL	559831.6	4242787.75	1.02E-08	1.65YrCancerDerived_Inh_FAH3to16	1.02E-08
227	ALL	559011.6	4242847.75	1.01E-08	1.65YrCancerDerived_Inh_FAH3to16	1.01E-08
271	ALL	558991.6	4242867.75	1.01E-08	1.65YrCancerDerived_Inh_FAH3to16	1.01E-08
264	ALL	559851.6	4242847.75	1.01E-08	1.65YrCancerDerived_Inh_FAH3to16	1.01E-08
138	ALL	559031.6	4242807.75	1.01E-08	1.65YrCancerDerived_Inh_FAH3to16	1.01E-08
538	ALL	559891.6	4242967.75	1.01E-08	1.65YrCancerDerived_Inh_FAH3to16	1.01E-08
401	ALL	559871.6	4242907.75	1.00E-08	1.65YrCancerDerived_Inh_FAH3to16	1.00E-08
814	ALL	559951.6	4243087.75	1.00E-08	1.65YrCancerDerived_Inh_FAH3to16	1.00E-08
2019	ALL	559031.6	4243647.75	9.98E-09	1.65YrCancerDerived_Inh_FAH3to16	9.98E-09
1922	ALL	559011.6	4243607.75	9.97E-09	1.65YrCancerDerived_Inh_FAH3to16	9.97E-09
1825	ALL	558991.6	4243567.75	9.96E-09	1.65YrCancerDerived_Inh_FAH3to16	9.96E-09
83	ALL	559831.6	4242767.75	9.95E-09	1.65YrCancerDerived_Inh_FAH3to16	9.95E-09
629	ALL	559911.6	4243007.75	9.94E-09	1.65YrCancerDerived_Inh_FAH3to16	9.94E-09
722	ALL	559931.6	4243047.75	9.92E-09	1.65YrCancerDerived_Inh_FAH3to16	9.92E-09
219	ALL	559851.6	4242827.75	9.85E-09	1.65YrCancerDerived_Inh_FAH3to16	9.85E-09
93	ALL	559031.6	4242787.75	9.79E-09	1.65YrCancerDerived_Inh_FAH3to16	9.79E-09
492	ALL	559891.6	4242947.75	9.78E-09	1.65YrCancerDerived_Inh_FAH3to16	9.78E-09
355	ALL	559871.6	4242887.75	9.77E-09	1.65YrCancerDerived_Inh_FAH3to16	9.77E-09
182	ALL	559011.6	4242827.75	9.74E-09	1.65YrCancerDerived_Inh_FAH3to16	9.74E-09
38	ALL	559831.6	4242747.75	9.73E-09	1.65YrCancerDerived_Inh_FAH3to16	9.73E-09
860	ALL	559971.6	4243107.75	9.72E-09	1.65YrCancerDerived_Inh_FAH3to16	9.72E-09
226	ALL	558991.6	4242847.75	9.64E-09	1.65YrCancerDerived_Inh_FAH3to16	9.64E-09
174	ALL	559851.6	4242807.75	9.63E-09	1.65YrCancerDerived_Inh_FAH3to16	9.63E-09

584	ALL	559911.6	4242987.75	9.62E-09	1.65YrCancerDerived_Inh_FAH3to16	9.62E-09
1873	ALL	558991.6	4243587.75	9.62E-09	1.65YrCancerDerived_Inh_FAH3to16	9.62E-09
2066	ALL	559031.6	4243667.75	9.61E-09	1.65YrCancerDerived_Inh_FAH3to16	9.61E-09
48	ALL	559031.6	4242767.75	9.61E-09	1.65YrCancerDerived_Inh_FAH3to16	9.61E-09
769	ALL	559951.6	4243067.75	9.60E-09	1.65YrCancerDerived_Inh_FAH3to16	9.60E-09
1970	ALL	559011.6	4243627.75	9.60E-09	1.65YrCancerDerived_Inh_FAH3to16	9.60E-09
676	ALL	559931.6	4243027.75	9.56E-09	1.65YrCancerDerived_Inh_FAH3to16	9.56E-09
310	ALL	559871.6	4242867.75	9.55E-09	1.65YrCancerDerived_Inh_FAH3to16	9.55E-09
447	ALL	559891.6	4242927.75	9.52E-09	1.65YrCancerDerived_Inh_FAH3to16	9.52E-09
3	ALL	559031.6	4242747.75	9.52E-09	1.65YrCancerDerived_Inh_FAH3to16	9.52E-09
129	ALL	559851.6	4242787.75	9.43E-09	1.65YrCancerDerived_Inh_FAH3to16	9.43E-09
137	ALL	559011.6	4242807.75	9.40E-09	1.65YrCancerDerived_Inh_FAH3to16	9.40E-09
539	ALL	559911.6	4242967.75	9.33E-09	1.65YrCancerDerived_Inh_FAH3to16	9.33E-09
265	ALL	559871.6	4242847.75	9.33E-09	1.65YrCancerDerived_Inh_FAH3to16	9.33E-09
815	ALL	559971.6	4243087.75	9.31E-09	1.65YrCancerDerived_Inh_FAH3to16	9.31E-09
1921	ALL	558991.6	4243607.75	9.29E-09	1.65YrCancerDerived_Inh_FAH3to16	9.29E-09
402	ALL	559891.6	4242907.75	9.28E-09	1.65YrCancerDerived_Inh_FAH3to16	9.28E-09
630	ALL	559931.6	4243007.75	9.24E-09	1.65YrCancerDerived_Inh_FAH3to16	9.24E-09
2018	ALL	559011.6	4243647.75	9.24E-09	1.65YrCancerDerived_Inh_FAH3to16	9.24E-09
723	ALL	559951.6	4243047.75	9.24E-09	1.65YrCancerDerived_Inh_FAH3to16	9.24E-09
2114	ALL	559031.6	4243687.75	9.23E-09	1.65YrCancerDerived_Inh_FAH3to16	9.23E-09
84	ALL	559851.6	4242767.75	9.23E-09	1.65YrCancerDerived_Inh_FAH3to16	9.23E-09
181	ALL	558991.6	4242827.75	9.19E-09	1.65YrCancerDerived_Inh_FAH3to16	9.19E-09
92	ALL	559011.6	4242787.75	9.14E-09	1.65YrCancerDerived_Inh_FAH3to16	9.14E-09
220	ALL	559871.6	4242827.75	9.13E-09	1.65YrCancerDerived_Inh_FAH3to16	9.13E-09
493	ALL	559911.6	4242947.75	9.07E-09	1.65YrCancerDerived_Inh_FAH3to16	9.07E-09
356	ALL	559891.6	4242887.75	9.06E-09	1.65YrCancerDerived_Inh_FAH3to16	9.06E-09
39	ALL	559851.6	4242747.75	9.04E-09	1.65YrCancerDerived_Inh_FAH3to16	9.04E-09
47	ALL	559011.6	4242767.75	8.97E-09	1.65YrCancerDerived_Inh_FAH3to16	8.97E-09
1969	ALL	558991.6	4243627.75	8.97E-09	1.65YrCancerDerived_Inh_FAH3to16	8.97E-09
770	ALL	559971.6	4243067.75	8.95E-09	1.65YrCancerDerived_Inh_FAH3to16	8.95E-09
585	ALL	559931.6	4242987.75	8.95E-09	1.65YrCancerDerived_Inh_FAH3to16	8.95E-09
175	ALL	559871.6	4242807.75	8.94E-09	1.65YrCancerDerived_Inh_FAH3to16	8.94E-09
2162	ALL	559031.6	4243707.75	8.93E-09	1.65YrCancerDerived_Inh_FAH3to16	8.93E-09
2065	ALL	559011.6	4243667.75	8.92E-09	1.65YrCancerDerived_Inh_FAH3to16	8.92E-09
677	ALL	559951.6	4243027.75	8.91E-09	1.65YrCancerDerived_Inh_FAH3to16	8.91E-09
136	ALL	558991.6	4242807.75	8.86E-09	1.65YrCancerDerived_Inh_FAH3to16	8.86E-09
311	ALL	559891.6	4242867.75	8.86E-09	1.65YrCancerDerived_Inh_FAH3to16	8.86E-09
448	ALL	559911.6	4242927.75	8.84E-09	1.65YrCancerDerived_Inh_FAH3to16	8.84E-09
2	ALL	559011.6	4242747.75	8.80E-09	1.65YrCancerDerived_Inh_FAH3to16	8.80E-09
130	ALL	559871.6	4242787.75	8.76E-09	1.65YrCancerDerived_Inh_FAH3to16	8.76E-09
540	ALL	559931.6	4242967.75	8.69E-09	1.65YrCancerDerived_Inh_FAH3to16	8.69E-09
266	ALL	559891.6	4242847.75	8.67E-09	1.65YrCancerDerived_Inh_FAH3to16	8.67E-09
2017	ALL	558991.6	4243647.75	8.64E-09	1.65YrCancerDerived_Inh_FAH3to16	8.64E-09
403	ALL	559911.6	4242907.75	8.62E-09	1.65YrCancerDerived_Inh_FAH3to16	8.62E-09
724	ALL	559971.6	4243047.75	8.62E-09	1.65YrCancerDerived_Inh_FAH3to16	8.62E-09
91	ALL	558991.6	4242787.75	8.62E-09	1.65YrCancerDerived_Inh_FAH3to16	8.62E-09
631	ALL	559951.6	4243007.75	8.61E-09	1.65YrCancerDerived_Inh_FAH3to16	8.61E-09
2113	ALL	559011.6	4243687.75	8.61E-09	1.65YrCancerDerived_Inh_FAH3to16	8.61E-09
85	ALL	559871.6	4242767.75	8.58E-09	1.65YrCancerDerived_Inh_FAH3to16	8.58E-09
221	ALL	559891.6	4242827.75	8.49E-09	1.65YrCancerDerived_Inh_FAH3to16	8.49E-09
494	ALL	559931.6	4242947.75	8.45E-09	1.65YrCancerDerived_Inh_FAH3to16	8.45E-09
357	ALL	559911.6	4242887.75	8.43E-09	1.65YrCancerDerived_Inh_FAH3to16	8.43E-09
40	ALL	559871.6	4242747.75	8.42E-09	1.65YrCancerDerived_Inh_FAH3to16	8.42E-09
46	ALL	558991.6	4242767.75	8.37E-09	1.65YrCancerDerived_Inh_FAH3to16	8.37E-09
2161	ALL	559011.6	4243707.75	8.35E-09	1.65YrCancerDerived_Inh_FAH3to16	8.35E-09
586	ALL	559951.6	4242987.75	8.35E-09	1.65YrCancerDerived_Inh_FAH3to16	8.35E-09
2064	ALL	558991.6	4243667.75	8.34E-09	1.65YrCancerDerived_Inh_FAH3to16	8.34E-09
678	ALL	559971.6	4243027.75	8.32E-09	1.65YrCancerDerived_Inh_FAH3to16	8.32E-09
176	ALL	559891.6	4242807.75	8.32E-09	1.65YrCancerDerived_Inh_FAH3to16	8.32E-09
312	ALL	559911.6	4242867.75	8.24E-09	1.65YrCancerDerived_Inh_FAH3to16	8.24E-09
449	ALL	559931.6	4242927.75	8.24E-09	1.65YrCancerDerived_Inh_FAH3to16	8.24E-09
131	ALL	559891.6	4242787.75	8.16E-09	1.65YrCancerDerived_Inh_FAH3to16	8.16E-09
1	ALL	558991.6	4242747.75	8.15E-09	1.65YrCancerDerived_Inh_FAH3to16	8.15E-09
541	ALL	559951.6	4242967.75	8.11E-09	1.65YrCancerDerived_Inh_FAH3to16	8.11E-09
2209	ALL	559011.6	4243727.75	8.08E-09	1.65YrCancerDerived_Inh_FAH3to16	8.08E-09
267	ALL	559911.6	4242847.75	8.08E-09	1.65YrCancerDerived_Inh_FAH3to16	8.08E-09
2112	ALL	558991.6	4243687.75	8.06E-09	1.65YrCancerDerived_Inh_FAH3to16	8.06E-09
632	ALL	559971.6	4243007.75	8.05E-09	1.65YrCancerDerived_Inh_FAH3to16	8.05E-09
404	ALL	559931.6	4242907.75	8.04E-09	1.65YrCancerDerived_Inh_FAH3to16	8.04E-09
86	ALL	559891.6	4242767.75	8.01E-09	1.65YrCancerDerived_Inh_FAH3to16	8.01E-09
222	ALL	559911.6	4242827.75	7.92E-09	1.65YrCancerDerived_Inh_FAH3to16	7.92E-09
495	ALL	559951.6	4242947.75	7.89E-09	1.65YrCancerDerived_Inh_FAH3to16	7.89E-09
358	ALL	559931.6	4242887.75	7.86E-09	1.65YrCancerDerived_Inh_FAH3to16	7.86E-09

41	ALL	559891.6	4242747.75	7.86E-09	1.65YrCancerDerived_Inh_FAH3to16	7.86E-09
587	ALL	559971.6	4242987.75	7.81E-09	1.65YrCancerDerived_Inh_FAH3to16	7.81E-09
2160	ALL	558991.6	4243707.75	7.80E-09	1.65YrCancerDerived_Inh_FAH3to16	7.80E-09
177	ALL	559911.6	4242807.75	7.77E-09	1.65YrCancerDerived_Inh_FAH3to16	7.77E-09
313	ALL	559931.6	4242867.75	7.70E-09	1.65YrCancerDerived_Inh_FAH3to16	7.70E-09
450	ALL	559951.6	4242927.75	7.70E-09	1.65YrCancerDerived_Inh_FAH3to16	7.70E-09
132	ALL	559911.6	4242787.75	7.62E-09	1.65YrCancerDerived_Inh_FAH3to16	7.62E-09
542	ALL	559971.6	4242967.75	7.59E-09	1.65YrCancerDerived_Inh_FAH3to16	7.59E-09
2208	ALL	558991.6	4243727.75	7.58E-09	1.65YrCancerDerived_Inh_FAH3to16	7.58E-09
268	ALL	559931.6	4242847.75	7.55E-09	1.65YrCancerDerived_Inh_FAH3to16	7.55E-09
405	ALL	559951.6	4242907.75	7.52E-09	1.65YrCancerDerived_Inh_FAH3to16	7.52E-09
87	ALL	559911.6	4242767.75	7.49E-09	1.65YrCancerDerived_Inh_FAH3to16	7.49E-09
223	ALL	559931.6	4242827.75	7.40E-09	1.65YrCancerDerived_Inh_FAH3to16	7.40E-09
496	ALL	559971.6	4242947.75	7.40E-09	1.65YrCancerDerived_Inh_FAH3to16	7.40E-09
42	ALL	559911.6	4242747.75	7.36E-09	1.65YrCancerDerived_Inh_FAH3to16	7.36E-09
359	ALL	559951.6	4242887.75	7.36E-09	1.65YrCancerDerived_Inh_FAH3to16	7.36E-09
178	ALL	559931.6	4242807.75	7.27E-09	1.65YrCancerDerived_Inh_FAH3to16	7.27E-09
451	ALL	559971.6	4242927.75	7.22E-09	1.65YrCancerDerived_Inh_FAH3to16	7.22E-09
314	ALL	559951.6	4242867.75	7.21E-09	1.65YrCancerDerived_Inh_FAH3to16	7.21E-09
133	ALL	559931.6	4242787.75	7.14E-09	1.65YrCancerDerived_Inh_FAH3to16	7.14E-09
269	ALL	559951.6	4242847.75	7.07E-09	1.65YrCancerDerived_Inh_FAH3to16	7.07E-09
406	ALL	559971.6	4242907.75	7.06E-09	1.65YrCancerDerived_Inh_FAH3to16	7.06E-09
88	ALL	559931.6	4242767.75	7.02E-09	1.65YrCancerDerived_Inh_FAH3to16	7.02E-09
224	ALL	559951.6	4242827.75	6.94E-09	1.65YrCancerDerived_Inh_FAH3to16	6.94E-09
43	ALL	559931.6	4242747.75	6.91E-09	1.65YrCancerDerived_Inh_FAH3to16	6.91E-09
360	ALL	559971.6	4242887.75	6.91E-09	1.65YrCancerDerived_Inh_FAH3to16	6.91E-09
179	ALL	559951.6	4242807.75	6.82E-09	1.65YrCancerDerived_Inh_FAH3to16	6.82E-09
315	ALL	559971.6	4242867.75	6.77E-09	1.65YrCancerDerived_Inh_FAH3to16	6.77E-09
134	ALL	559951.6	4242787.75	6.71E-09	1.65YrCancerDerived_Inh_FAH3to16	6.71E-09
270	ALL	559971.6	4242847.75	6.65E-09	1.65YrCancerDerived_Inh_FAH3to16	6.65E-09
89	ALL	559951.6	4242767.75	6.60E-09	1.65YrCancerDerived_Inh_FAH3to16	6.60E-09
225	ALL	559971.6	4242827.75	6.53E-09	1.65YrCancerDerived_Inh_FAH3to16	6.53E-09
44	ALL	559951.6	4242747.75	6.50E-09	1.65YrCancerDerived_Inh_FAH3to16	6.50E-09
180	ALL	559971.6	4242807.75	6.42E-09	1.65YrCancerDerived_Inh_FAH3to16	6.42E-09
135	ALL	559971.6	4242787.75	6.32E-09	1.65YrCancerDerived_Inh_FAH3to16	6.32E-09
90	ALL	559971.6	4242767.75	6.22E-09	1.65YrCancerDerived_Inh_FAH3to16	6.22E-09
45	ALL	559971.6	4242747.75	6.13E-09	1.65YrCancerDerived_Inh_FAH3to16	6.13E-09

*HARP - HRACalc v22118 6/30/2026 7:58:24 PM - Cancer Risk - Input File: F:\Jobs\65660001\ConHRA\HARP\BYWAY EAST\hra\WorkerHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK
1259	ALL		559451.56	4243307.75	6.14E-07	1.9YrCancerDerived_Inh	6.14E-07
1301	ALL		559491.56	4243327.75	5.53E-07	1.9YrCancerDerived_Inh	5.53E-07
1258	ALL		559431.56	4243307.75	5.50E-07	1.9YrCancerDerived_Inh	5.50E-07
1300	ALL		559471.56	4243327.75	4.98E-07	1.9YrCancerDerived_Inh	4.98E-07
1218	ALL		559391.56	4243287.75	4.85E-07	1.9YrCancerDerived_Inh	4.85E-07
1302	ALL		559531.56	4243327.75	4.71E-07	1.9YrCancerDerived_Inh	4.71E-07
1257	ALL		559411.56	4243307.75	4.48E-07	1.9YrCancerDerived_Inh	4.48E-07
1299	ALL		559451.56	4243327.75	4.32E-07	1.9YrCancerDerived_Inh	4.32E-07
1345	ALL		559511.56	4243347.75	3.97E-07	1.9YrCancerDerived_Inh	3.97E-07
1344	ALL		559491.56	4243347.75	3.72E-07	1.9YrCancerDerived_Inh	3.72E-07
1298	ALL		559431.56	4243327.75	3.64E-07	1.9YrCancerDerived_Inh	3.64E-07
1056	ALL		559411.56	4243207.75	3.52E-07	1.9YrCancerDerived_Inh	3.52E-07
1346	ALL		559531.56	4243347.75	3.41E-07	1.9YrCancerDerived_Inh	3.41E-07
1343	ALL		559471.56	4243347.75	3.34E-07	1.9YrCancerDerived_Inh	3.34E-07
1057	ALL		559431.56	4243207.75	3.31E-07	1.9YrCancerDerived_Inh	3.31E-07
1256	ALL		559391.56	4243307.75	3.29E-07	1.9YrCancerDerived_Inh	3.29E-07
1217	ALL		559371.56	4243287.75	3.10E-07	1.9YrCancerDerived_Inh	3.10E-07
1101	ALL		559451.56	4243227.75	3.03E-07	1.9YrCancerDerived_Inh	3.03E-07
1260	ALL		559551.56	4243307.75	2.97E-07	1.9YrCancerDerived_Inh	2.97E-07
1342	ALL		559451.56	4243347.75	2.93E-07	1.9YrCancerDerived_Inh	2.93E-07
1297	ALL		559411.56	4243327.75	2.93E-07	1.9YrCancerDerived_Inh	2.93E-07
1012	ALL		559431.56	4243187.75	2.86E-07	1.9YrCancerDerived_Inh	2.86E-07
1303	ALL		559551.56	4243327.75	2.77E-07	1.9YrCancerDerived_Inh	2.77E-07
1389	ALL		559511.56	4243367.75	2.65E-07	1.9YrCancerDerived_Inh	2.65E-07
1388	ALL		559491.56	4243367.75	2.59E-07	1.9YrCancerDerived_Inh	2.59E-07
1341	ALL		559431.56	4243347.75	2.51E-07	1.9YrCancerDerived_Inh	2.51E-07
1058	ALL		559451.56	4243207.75	2.49E-07	1.9YrCancerDerived_Inh	2.49E-07
1102	ALL		559471.56	4243227.75	2.49E-07	1.9YrCancerDerived_Inh	2.49E-07
1387	ALL		559471.56	4243367.75	2.39E-07	1.9YrCancerDerived_Inh	2.39E-07
1390	ALL		559531.56	4243367.75	2.34E-07	1.9YrCancerDerived_Inh	2.34E-07
1347	ALL		559551.56	4243347.75	2.24E-07	1.9YrCancerDerived_Inh	2.24E-07
1143	ALL		559511.56	4243247.75	2.22E-07	1.9YrCancerDerived_Inh	2.22E-07
1296	ALL		559391.56	4243327.75	2.18E-07	1.9YrCancerDerived_Inh	2.18E-07
1219	ALL		559551.56	4243287.75	2.13E-07	1.9YrCancerDerived_Inh	2.13E-07
1386	ALL		559451.56	4243367.75	2.13E-07	1.9YrCancerDerived_Inh	2.13E-07
1013	ALL		559451.56	4243187.75	2.07E-07	1.9YrCancerDerived_Inh	2.07E-07
1340	ALL		559411.56	4243347.75	2.05E-07	1.9YrCancerDerived_Inh	2.05E-07
1255	ALL		559371.56	4243307.75	2.04E-07	1.9YrCancerDerived_Inh	2.04E-07
1103	ALL		559491.56	4243227.75	1.94E-07	1.9YrCancerDerived_Inh	1.94E-07
1433	ALL		559491.56	4243387.75	1.91E-07	1.9YrCancerDerived_Inh	1.91E-07
1434	ALL		559511.56	4243387.75	1.91E-07	1.9YrCancerDerived_Inh	1.91E-07
1059	ALL		559471.56	4243207.75	1.86E-07	1.9YrCancerDerived_Inh	1.86E-07
968	ALL		559451.56	4243167.75	1.85E-07	1.9YrCancerDerived_Inh	1.85E-07
1385	ALL		559431.56	4243367.75	1.85E-07	1.9YrCancerDerived_Inh	1.85E-07
1432	ALL		559471.56	4243387.75	1.80E-07	1.9YrCancerDerived_Inh	1.80E-07
924	ALL		559451.56	4243147.75	1.77E-07	1.9YrCancerDerived_Inh	1.77E-07
1391	ALL		559551.56	4243367.75	1.74E-07	1.9YrCancerDerived_Inh	1.74E-07
1435	ALL		559531.56	4243387.75	1.72E-07	1.9YrCancerDerived_Inh	1.72E-07
1144	ALL		559531.56	4243247.75	1.64E-07	1.9YrCancerDerived_Inh	1.64E-07
1431	ALL		559451.56	4243387.75	1.63E-07	1.9YrCancerDerived_Inh	1.63E-07
1339	ALL		559391.56	4243347.75	1.55E-07	1.9YrCancerDerived_Inh	1.55E-07
1384	ALL		559411.56	4243367.75	1.53E-07	1.9YrCancerDerived_Inh	1.53E-07
1104	ALL		559511.56	4243227.75	1.50E-07	1.9YrCancerDerived_Inh	1.50E-07
1304	ALL		559571.56	4243327.75	1.49E-07	1.9YrCancerDerived_Inh	1.49E-07
1014	ALL		559471.56	4243187.75	1.48E-07	1.9YrCancerDerived_Inh	1.48E-07
1479	ALL		559491.56	4243407.75	1.47E-07	1.9YrCancerDerived_Inh	1.47E-07
1480	ALL		559511.56	4243407.75	1.46E-07	1.9YrCancerDerived_Inh	1.46E-07
1295	ALL		559371.56	4243327.75	1.43E-07	1.9YrCancerDerived_Inh	1.43E-07
1261	ALL		559571.56	4243307.75	1.43E-07	1.9YrCancerDerived_Inh	1.43E-07
1430	ALL		559431.56	4243387.75	1.42E-07	1.9YrCancerDerived_Inh	1.42E-07
1478	ALL		559471.56	4243407.75	1.41E-07	1.9YrCancerDerived_Inh	1.41E-07
1060	ALL		559491.56	4243207.75	1.40E-07	1.9YrCancerDerived_Inh	1.40E-07
1348	ALL		559571.56	4243347.75	1.37E-07	1.9YrCancerDerived_Inh	1.37E-07
1436	ALL		559551.56	4243387.75	1.37E-07	1.9YrCancerDerived_Inh	1.37E-07
1481	ALL		559531.56	4243407.75	1.32E-07	1.9YrCancerDerived_Inh	1.32E-07
969	ALL		559471.56	4243167.75	1.30E-07	1.9YrCancerDerived_Inh	1.30E-07
1477	ALL		559451.56	4243407.75	1.28E-07	1.9YrCancerDerived_Inh	1.28E-07
1216	ALL		559351.56	4243287.75	1.28E-07	1.9YrCancerDerived_Inh	1.28E-07
925	ALL		559471.56	4243147.75	1.26E-07	1.9YrCancerDerived_Inh	1.26E-07
880	ALL		559471.56	4243127.75	1.25E-07	1.9YrCancerDerived_Inh	1.25E-07
1392	ALL		559571.56	4243367.75	1.20E-07	1.9YrCancerDerived_Inh	1.20E-07
1429	ALL		559411.56	4243387.75	1.19E-07	1.9YrCancerDerived_Inh	1.19E-07

1383	ALL	559391.56	4243367.75	1.18E-07	1.9YrCancerDerived_Inh	1.18E-07
1525	ALL	559491.56	4243427.75	1.17E-07	1.9YrCancerDerived_Inh	1.17E-07
1526	ALL	559511.56	4243427.75	1.15E-07	1.9YrCancerDerived_Inh	1.15E-07
1476	ALL	559431.56	4243407.75	1.13E-07	1.9YrCancerDerived_Inh	1.13E-07
1524	ALL	559471.56	4243427.75	1.13E-07	1.9YrCancerDerived_Inh	1.13E-07
1220	ALL	559571.56	4243287.75	1.10E-07	1.9YrCancerDerived_Inh	1.10E-07
1482	ALL	559551.56	4243407.75	1.10E-07	1.9YrCancerDerived_Inh	1.10E-07
1105	ALL	559531.56	4243227.75	1.10E-07	1.9YrCancerDerived_Inh	1.10E-07
1015	ALL	559491.56	4243187.75	1.09E-07	1.9YrCancerDerived_Inh	1.09E-07
1338	ALL	559371.56	4243347.75	1.07E-07	1.9YrCancerDerived_Inh	1.07E-07
1527	ALL	559531.56	4243427.75	1.06E-07	1.9YrCancerDerived_Inh	1.06E-07
1061	ALL	559511.56	4243207.75	1.06E-07	1.9YrCancerDerived_Inh	1.06E-07
1254	ALL	559351.56	4243307.75	1.05E-07	1.9YrCancerDerived_Inh	1.05E-07
1523	ALL	559451.56	4243427.75	1.04E-07	1.9YrCancerDerived_Inh	1.04E-07
1437	ALL	559571.56	4243387.75	1.02E-07	1.9YrCancerDerived_Inh	1.02E-07
1145	ALL	559551.56	4243247.75	1.01E-07	1.9YrCancerDerived_Inh	1.01E-07
835	ALL	559471.56	4243107.75	9.93E-08	1.9YrCancerDerived_Inh	9.93E-08
1571	ALL	559491.56	4243447.75	9.56E-08	1.9YrCancerDerived_Inh	9.56E-08
1475	ALL	559411.56	4243407.75	9.49E-08	1.9YrCancerDerived_Inh	9.49E-08
1572	ALL	559511.56	4243447.75	9.38E-08	1.9YrCancerDerived_Inh	9.38E-08
1428	ALL	559391.56	4243387.75	9.33E-08	1.9YrCancerDerived_Inh	9.33E-08
1570	ALL	559471.56	4243447.75	9.25E-08	1.9YrCancerDerived_Inh	9.25E-08
1522	ALL	559431.56	4243427.75	9.20E-08	1.9YrCancerDerived_Inh	9.20E-08
970	ALL	559491.56	4243167.75	9.17E-08	1.9YrCancerDerived_Inh	9.17E-08
1528	ALL	559551.56	4243427.75	9.07E-08	1.9YrCancerDerived_Inh	9.07E-08
1573	ALL	559531.56	4243447.75	8.69E-08	1.9YrCancerDerived_Inh	8.69E-08
1349	ALL	559591.56	4243347.75	8.63E-08	1.9YrCancerDerived_Inh	8.63E-08
1483	ALL	559571.56	4243407.75	8.63E-08	1.9YrCancerDerived_Inh	8.63E-08
1569	ALL	559451.56	4243447.75	8.60E-08	1.9YrCancerDerived_Inh	8.60E-08
1305	ALL	559591.56	4243327.75	8.54E-08	1.9YrCancerDerived_Inh	8.54E-08
1382	ALL	559371.56	4243367.75	8.44E-08	1.9YrCancerDerived_Inh	8.44E-08
1294	ALL	559351.56	4243327.75	8.31E-08	1.9YrCancerDerived_Inh	8.31E-08
926	ALL	559491.56	4243147.75	8.15E-08	1.9YrCancerDerived_Inh	8.15E-08
1393	ALL	559591.56	4243367.75	8.15E-08	1.9YrCancerDerived_Inh	8.15E-08
1016	ALL	559511.56	4243187.75	8.15E-08	1.9YrCancerDerived_Inh	8.15E-08
1617	ALL	559491.56	4243467.75	7.96E-08	1.9YrCancerDerived_Inh	7.96E-08
1062	ALL	559531.56	4243207.75	7.87E-08	1.9YrCancerDerived_Inh	7.87E-08
1521	ALL	559411.56	4243427.75	7.82E-08	1.9YrCancerDerived_Inh	7.82E-08
1618	ALL	559511.56	4243467.75	7.80E-08	1.9YrCancerDerived_Inh	7.80E-08
1616	ALL	559471.56	4243467.75	7.75E-08	1.9YrCancerDerived_Inh	7.75E-08
1568	ALL	559431.56	4243447.75	7.68E-08	1.9YrCancerDerived_Inh	7.68E-08
1262	ALL	559591.56	4243307.75	7.64E-08	1.9YrCancerDerived_Inh	7.64E-08
1574	ALL	559551.56	4243447.75	7.59E-08	1.9YrCancerDerived_Inh	7.59E-08
1474	ALL	559391.56	4243407.75	7.56E-08	1.9YrCancerDerived_Inh	7.56E-08
1438	ALL	559591.56	4243387.75	7.40E-08	1.9YrCancerDerived_Inh	7.40E-08
881	ALL	559491.56	4243127.75	7.39E-08	1.9YrCancerDerived_Inh	7.39E-08
1529	ALL	559571.56	4243427.75	7.36E-08	1.9YrCancerDerived_Inh	7.36E-08
1106	ALL	559551.56	4243227.75	7.35E-08	1.9YrCancerDerived_Inh	7.35E-08
1181	ALL	559571.56	4243267.75	7.33E-08	1.9YrCancerDerived_Inh	7.33E-08
1619	ALL	559531.56	4243467.75	7.26E-08	1.9YrCancerDerived_Inh	7.26E-08
1615	ALL	559451.56	4243467.75	7.24E-08	1.9YrCancerDerived_Inh	7.24E-08
1427	ALL	559371.56	4243387.75	6.83E-08	1.9YrCancerDerived_Inh	6.83E-08
1337	ALL	559351.56	4243347.75	6.76E-08	1.9YrCancerDerived_Inh	6.76E-08
1663	ALL	559491.56	4243487.75	6.73E-08	1.9YrCancerDerived_Inh	6.73E-08
971	ALL	559511.56	4243167.75	6.65E-08	1.9YrCancerDerived_Inh	6.65E-08
1664	ALL	559511.56	4243487.75	6.60E-08	1.9YrCancerDerived_Inh	6.60E-08
1484	ALL	559591.56	4243407.75	6.59E-08	1.9YrCancerDerived_Inh	6.59E-08
1567	ALL	559411.56	4243447.75	6.59E-08	1.9YrCancerDerived_Inh	6.59E-08
1662	ALL	559471.56	4243487.75	6.57E-08	1.9YrCancerDerived_Inh	6.57E-08
1614	ALL	559431.56	4243467.75	6.50E-08	1.9YrCancerDerived_Inh	6.50E-08
1620	ALL	559551.56	4243467.75	6.43E-08	1.9YrCancerDerived_Inh	6.43E-08
1575	ALL	559571.56	4243447.75	6.34E-08	1.9YrCancerDerived_Inh	6.34E-08
1520	ALL	559391.56	4243427.75	6.33E-08	1.9YrCancerDerived_Inh	6.33E-08
1665	ALL	559531.56	4243487.75	6.19E-08	1.9YrCancerDerived_Inh	6.19E-08
1661	ALL	559451.56	4243487.75	6.16E-08	1.9YrCancerDerived_Inh	6.16E-08
1017	ALL	559531.56	4243187.75	6.08E-08	1.9YrCancerDerived_Inh	6.08E-08
1221	ALL	559591.56	4243287.75	6.07E-08	1.9YrCancerDerived_Inh	6.07E-08
836	ALL	559491.56	4243107.75	6.04E-08	1.9YrCancerDerived_Inh	6.04E-08
1530	ALL	559591.56	4243427.75	5.83E-08	1.9YrCancerDerived_Inh	5.83E-08
1709	ALL	559491.56	4243507.75	5.76E-08	1.9YrCancerDerived_Inh	5.76E-08
1146	ALL	559571.56	4243247.75	5.71E-08	1.9YrCancerDerived_Inh	5.71E-08
1350	ALL	559611.56	4243347.75	5.70E-08	1.9YrCancerDerived_Inh	5.70E-08
1394	ALL	559611.56	4243367.75	5.69E-08	1.9YrCancerDerived_Inh	5.69E-08
1473	ALL	559371.56	4243407.75	5.68E-08	1.9YrCancerDerived_Inh	5.68E-08

1710	ALL	559511.56	4243507.75	5.66E-08	1.9YrCancerDerived_Inh	5.66E-08
1381	ALL	559351.56	4243367.75	5.63E-08	1.9YrCancerDerived_Inh	5.63E-08
1708	ALL	559471.56	4243507.75	5.63E-08	1.9YrCancerDerived_Inh	5.63E-08
927	ALL	559511.56	4243147.75	5.61E-08	1.9YrCancerDerived_Inh	5.61E-08
1613	ALL	559411.56	4243467.75	5.59E-08	1.9YrCancerDerived_Inh	5.59E-08
1063	ALL	559551.56	4243207.75	5.56E-08	1.9YrCancerDerived_Inh	5.56E-08
1660	ALL	559431.56	4243487.75	5.55E-08	1.9YrCancerDerived_Inh	5.55E-08
1666	ALL	559551.56	4243487.75	5.54E-08	1.9YrCancerDerived_Inh	5.54E-08
1621	ALL	559571.56	4243467.75	5.51E-08	1.9YrCancerDerived_Inh	5.51E-08
1439	ALL	559611.56	4243387.75	5.43E-08	1.9YrCancerDerived_Inh	5.43E-08
1566	ALL	559391.56	4243447.75	5.40E-08	1.9YrCancerDerived_Inh	5.40E-08
1306	ALL	559611.56	4243327.75	5.37E-08	1.9YrCancerDerived_Inh	5.37E-08
1711	ALL	559531.56	4243507.75	5.34E-08	1.9YrCancerDerived_Inh	5.34E-08
1707	ALL	559451.56	4243507.75	5.30E-08	1.9YrCancerDerived_Inh	5.30E-08
1576	ALL	559591.56	4243447.75	5.17E-08	1.9YrCancerDerived_Inh	5.17E-08
1485	ALL	559611.56	4243407.75	5.04E-08	1.9YrCancerDerived_Inh	5.04E-08
1755	ALL	559491.56	4243527.75	4.99E-08	1.9YrCancerDerived_Inh	4.99E-08
972	ALL	559531.56	4243167.75	4.92E-08	1.9YrCancerDerived_Inh	4.92E-08
1756	ALL	559511.56	4243527.75	4.91E-08	1.9YrCancerDerived_Inh	4.91E-08
1519	ALL	559371.56	4243427.75	4.89E-08	1.9YrCancerDerived_Inh	4.89E-08
1754	ALL	559471.56	4243527.75	4.88E-08	1.9YrCancerDerived_Inh	4.88E-08
1712	ALL	559551.56	4243507.75	4.85E-08	1.9YrCancerDerived_Inh	4.85E-08
1659	ALL	559411.56	4243487.75	4.81E-08	1.9YrCancerDerived_Inh	4.81E-08
1706	ALL	559431.56	4243507.75	4.80E-08	1.9YrCancerDerived_Inh	4.80E-08
1667	ALL	559571.56	4243487.75	4.79E-08	1.9YrCancerDerived_Inh	4.79E-08
882	ALL	559511.56	4243127.75	4.74E-08	1.9YrCancerDerived_Inh	4.74E-08
1426	ALL	559351.56	4243387.75	4.70E-08	1.9YrCancerDerived_Inh	4.70E-08
1263	ALL	559611.56	4243307.75	4.69E-08	1.9YrCancerDerived_Inh	4.69E-08
1757	ALL	559531.56	4243527.75	4.65E-08	1.9YrCancerDerived_Inh	4.65E-08
1612	ALL	559391.56	4243467.75	4.64E-08	1.9YrCancerDerived_Inh	4.64E-08
1107	ALL	559571.56	4243227.75	4.62E-08	1.9YrCancerDerived_Inh	4.62E-08
1531	ALL	559611.56	4243427.75	4.61E-08	1.9YrCancerDerived_Inh	4.61E-08
1753	ALL	559451.56	4243527.75	4.60E-08	1.9YrCancerDerived_Inh	4.60E-08
1622	ALL	559591.56	4243467.75	4.59E-08	1.9YrCancerDerived_Inh	4.59E-08
1182	ALL	559591.56	4243267.75	4.56E-08	1.9YrCancerDerived_Inh	4.56E-08
1018	ALL	559551.56	4243187.75	4.43E-08	1.9YrCancerDerived_Inh	4.43E-08
1800	ALL	559491.56	4243547.75	4.36E-08	1.9YrCancerDerived_Inh	4.36E-08
1801	ALL	559511.56	4243547.75	4.29E-08	1.9YrCancerDerived_Inh	4.29E-08
1799	ALL	559471.56	4243547.75	4.27E-08	1.9YrCancerDerived_Inh	4.27E-08
1713	ALL	559571.56	4243507.75	4.26E-08	1.9YrCancerDerived_Inh	4.26E-08
1758	ALL	559551.56	4243527.75	4.25E-08	1.9YrCancerDerived_Inh	4.25E-08
1565	ALL	559371.56	4243447.75	4.21E-08	1.9YrCancerDerived_Inh	4.21E-08
1752	ALL	559431.56	4243527.75	4.20E-08	1.9YrCancerDerived_Inh	4.20E-08
1705	ALL	559411.56	4243507.75	4.20E-08	1.9YrCancerDerived_Inh	4.20E-08
1577	ALL	559611.56	4243447.75	4.18E-08	1.9YrCancerDerived_Inh	4.18E-08
1395	ALL	559631.56	4243367.75	4.09E-08	1.9YrCancerDerived_Inh	4.09E-08
1802	ALL	559531.56	4243547.75	4.08E-08	1.9YrCancerDerived_Inh	4.08E-08
928	ALL	559531.56	4243147.75	4.08E-08	1.9YrCancerDerived_Inh	4.08E-08
1472	ALL	559351.56	4243407.75	4.07E-08	1.9YrCancerDerived_Inh	4.07E-08
1440	ALL	559631.56	4243387.75	4.06E-08	1.9YrCancerDerived_Inh	4.06E-08
1668	ALL	559591.56	4243487.75	4.05E-08	1.9YrCancerDerived_Inh	4.05E-08
1798	ALL	559451.56	4243547.75	4.05E-08	1.9YrCancerDerived_Inh	4.05E-08
1658	ALL	559391.56	4243487.75	4.04E-08	1.9YrCancerDerived_Inh	4.04E-08
1351	ALL	559631.56	4243347.75	3.96E-08	1.9YrCancerDerived_Inh	3.96E-08
1486	ALL	559631.56	4243407.75	3.90E-08	1.9YrCancerDerived_Inh	3.90E-08
791	ALL	559491.56	4243087.75	3.86E-08	1.9YrCancerDerived_Inh	3.86E-08
1848	ALL	559491.56	4243567.75	3.85E-08	1.9YrCancerDerived_Inh	3.85E-08
1222	ALL	559611.56	4243287.75	3.84E-08	1.9YrCancerDerived_Inh	3.84E-08
837	ALL	559511.56	4243107.75	3.83E-08	1.9YrCancerDerived_Inh	3.83E-08
1849	ALL	559511.56	4243567.75	3.80E-08	1.9YrCancerDerived_Inh	3.80E-08
1064	ALL	559571.56	4243207.75	3.79E-08	1.9YrCancerDerived_Inh	3.79E-08
1759	ALL	559571.56	4243527.75	3.79E-08	1.9YrCancerDerived_Inh	3.79E-08
1623	ALL	559611.56	4243467.75	3.79E-08	1.9YrCancerDerived_Inh	3.79E-08
1847	ALL	559471.56	4243567.75	3.77E-08	1.9YrCancerDerived_Inh	3.77E-08
1803	ALL	559551.56	4243547.75	3.76E-08	1.9YrCancerDerived_Inh	3.76E-08
1380	ALL	559331.56	4243367.75	3.76E-08	1.9YrCancerDerived_Inh	3.76E-08
1797	ALL	559431.56	4243547.75	3.70E-08	1.9YrCancerDerived_Inh	3.70E-08
1751	ALL	559411.56	4243527.75	3.70E-08	1.9YrCancerDerived_Inh	3.70E-08
1611	ALL	559371.56	4243467.75	3.66E-08	1.9YrCancerDerived_Inh	3.66E-08
1532	ALL	559631.56	4243427.75	3.66E-08	1.9YrCancerDerived_Inh	3.66E-08
1714	ALL	559591.56	4243507.75	3.65E-08	1.9YrCancerDerived_Inh	3.65E-08
973	ALL	559551.56	4243167.75	3.64E-08	1.9YrCancerDerived_Inh	3.64E-08
1307	ALL	559631.56	4243327.75	3.64E-08	1.9YrCancerDerived_Inh	3.64E-08
1147	ALL	559591.56	4243247.75	3.63E-08	1.9YrCancerDerived_Inh	3.63E-08

1850	ALL	559531.56	4243567.75	3.62E-08	1.9YrCancerDerived_Inh	3.62E-08
1518	ALL	559351.56	4243427.75	3.62E-08	1.9YrCancerDerived_Inh	3.62E-08
879	ALL	559351.56	4243127.75	3.60E-08	1.9YrCancerDerived_Inh	3.60E-08
1846	ALL	559451.56	4243567.75	3.57E-08	1.9YrCancerDerived_Inh	3.57E-08
1704	ALL	559391.56	4243507.75	3.56E-08	1.9YrCancerDerived_Inh	3.56E-08
1669	ALL	559611.56	4243487.75	3.41E-08	1.9YrCancerDerived_Inh	3.41E-08
1896	ALL	559491.56	4243587.75	3.41E-08	1.9YrCancerDerived_Inh	3.41E-08
1578	ALL	559631.56	4243447.75	3.40E-08	1.9YrCancerDerived_Inh	3.40E-08
883	ALL	559531.56	4243127.75	3.39E-08	1.9YrCancerDerived_Inh	3.39E-08
1804	ALL	559571.56	4243547.75	3.38E-08	1.9YrCancerDerived_Inh	3.38E-08
1897	ALL	559511.56	4243587.75	3.38E-08	1.9YrCancerDerived_Inh	3.38E-08
1851	ALL	559551.56	4243567.75	3.36E-08	1.9YrCancerDerived_Inh	3.36E-08
746	ALL	559491.56	4243067.75	3.36E-08	1.9YrCancerDerived_Inh	3.36E-08
1895	ALL	559471.56	4243587.75	3.34E-08	1.9YrCancerDerived_Inh	3.34E-08
1760	ALL	559591.56	4243527.75	3.30E-08	1.9YrCancerDerived_Inh	3.30E-08
1845	ALL	559431.56	4243567.75	3.28E-08	1.9YrCancerDerived_Inh	3.28E-08
1796	ALL	559411.56	4243547.75	3.27E-08	1.9YrCancerDerived_Inh	3.27E-08
1898	ALL	559531.56	4243587.75	3.24E-08	1.9YrCancerDerived_Inh	3.24E-08
1657	ALL	559371.56	4243487.75	3.24E-08	1.9YrCancerDerived_Inh	3.24E-08
1425	ALL	559331.56	4243387.75	3.21E-08	1.9YrCancerDerived_Inh	3.21E-08
1894	ALL	559451.56	4243587.75	3.18E-08	1.9YrCancerDerived_Inh	3.18E-08
1264	ALL	559631.56	4243307.75	3.17E-08	1.9YrCancerDerived_Inh	3.17E-08
1019	ALL	559571.56	4243187.75	3.16E-08	1.9YrCancerDerived_Inh	3.16E-08
790	ALL	559371.56	4243087.75	3.16E-08	1.9YrCancerDerived_Inh	3.16E-08
745	ALL	559391.56	4243067.75	3.15E-08	1.9YrCancerDerived_Inh	3.15E-08
1564	ALL	559351.56	4243447.75	3.15E-08	1.9YrCancerDerived_Inh	3.15E-08
1750	ALL	559391.56	4243527.75	3.15E-08	1.9YrCancerDerived_Inh	3.15E-08
1624	ALL	559631.56	4243467.75	3.14E-08	1.9YrCancerDerived_Inh	3.14E-08
923	ALL	559331.56	4243147.75	3.12E-08	1.9YrCancerDerived_Inh	3.12E-08
1715	ALL	559611.56	4243507.75	3.09E-08	1.9YrCancerDerived_Inh	3.09E-08
1441	ALL	559651.56	4243387.75	3.09E-08	1.9YrCancerDerived_Inh	3.09E-08
1183	ALL	559611.56	4243267.75	3.08E-08	1.9YrCancerDerived_Inh	3.08E-08
1011	ALL	559311.56	4243187.75	3.05E-08	1.9YrCancerDerived_Inh	3.05E-08
1944	ALL	559491.56	4243607.75	3.05E-08	1.9YrCancerDerived_Inh	3.05E-08
1108	ALL	559591.56	4243227.75	3.05E-08	1.9YrCancerDerived_Inh	3.05E-08
1487	ALL	559651.56	4243407.75	3.05E-08	1.9YrCancerDerived_Inh	3.05E-08
929	ALL	559551.56	4243147.75	3.04E-08	1.9YrCancerDerived_Inh	3.04E-08
1852	ALL	559571.56	4243567.75	3.03E-08	1.9YrCancerDerived_Inh	3.03E-08
1396	ALL	559651.56	4243367.75	3.03E-08	1.9YrCancerDerived_Inh	3.03E-08
1899	ALL	559551.56	4243587.75	3.03E-08	1.9YrCancerDerived_Inh	3.03E-08
1945	ALL	559511.56	4243607.75	3.02E-08	1.9YrCancerDerived_Inh	3.02E-08
1943	ALL	559471.56	4243607.75	2.99E-08	1.9YrCancerDerived_Inh	2.99E-08
834	ALL	559351.56	4243107.75	2.97E-08	1.9YrCancerDerived_Inh	2.97E-08
1805	ALL	559591.56	4243547.75	2.97E-08	1.9YrCancerDerived_Inh	2.97E-08
792	ALL	559511.56	4243087.75	2.96E-08	1.9YrCancerDerived_Inh	2.96E-08
1533	ALL	559651.56	4243427.75	2.94E-08	1.9YrCancerDerived_Inh	2.94E-08
1893	ALL	559431.56	4243587.75	2.93E-08	1.9YrCancerDerived_Inh	2.93E-08
1844	ALL	559411.56	4243567.75	2.91E-08	1.9YrCancerDerived_Inh	2.91E-08
1946	ALL	559531.56	4243607.75	2.91E-08	1.9YrCancerDerived_Inh	2.91E-08
1670	ALL	559631.56	4243487.75	2.89E-08	1.9YrCancerDerived_Inh	2.89E-08
1703	ALL	559371.56	4243507.75	2.88E-08	1.9YrCancerDerived_Inh	2.88E-08
1352	ALL	559651.56	4243347.75	2.87E-08	1.9YrCancerDerived_Inh	2.87E-08
1471	ALL	559331.56	4243407.75	2.86E-08	1.9YrCancerDerived_Inh	2.86E-08
1942	ALL	559451.56	4243607.75	2.85E-08	1.9YrCancerDerived_Inh	2.85E-08
1761	ALL	559611.56	4243527.75	2.84E-08	1.9YrCancerDerived_Inh	2.84E-08
1610	ALL	559351.56	4243467.75	2.80E-08	1.9YrCancerDerived_Inh	2.80E-08
1795	ALL	559391.56	4243547.75	2.80E-08	1.9YrCancerDerived_Inh	2.80E-08
1579	ALL	559651.56	4243447.75	2.79E-08	1.9YrCancerDerived_Inh	2.79E-08
838	ALL	559531.56	4243107.75	2.78E-08	1.9YrCancerDerived_Inh	2.78E-08
1900	ALL	559571.56	4243587.75	2.75E-08	1.9YrCancerDerived_Inh	2.75E-08
700	ALL	559491.56	4243047.75	2.75E-08	1.9YrCancerDerived_Inh	2.75E-08
1992	ALL	559491.56	4243627.75	2.74E-08	1.9YrCancerDerived_Inh	2.74E-08
1947	ALL	559551.56	4243607.75	2.73E-08	1.9YrCancerDerived_Inh	2.73E-08
1993	ALL	559511.56	4243627.75	2.72E-08	1.9YrCancerDerived_Inh	2.72E-08
1853	ALL	559591.56	4243567.75	2.69E-08	1.9YrCancerDerived_Inh	2.69E-08
1991	ALL	559471.56	4243627.75	2.69E-08	1.9YrCancerDerived_Inh	2.69E-08
974	ALL	559571.56	4243167.75	2.67E-08	1.9YrCancerDerived_Inh	2.67E-08
1223	ALL	559631.56	4243287.75	2.67E-08	1.9YrCancerDerived_Inh	2.67E-08
967	ALL	559311.56	4243167.75	2.64E-08	1.9YrCancerDerived_Inh	2.64E-08
1716	ALL	559631.56	4243507.75	2.63E-08	1.9YrCancerDerived_Inh	2.63E-08
1941	ALL	559431.56	4243607.75	2.63E-08	1.9YrCancerDerived_Inh	2.63E-08
878	ALL	559331.56	4243127.75	2.63E-08	1.9YrCancerDerived_Inh	2.63E-08
1994	ALL	559531.56	4243627.75	2.63E-08	1.9YrCancerDerived_Inh	2.63E-08
1892	ALL	559411.56	4243587.75	2.62E-08	1.9YrCancerDerived_Inh	2.62E-08

1625	ALL	559651.56	4243467.75	2.62E-08	1.9YrCancerDerived_Inh	2.62E-08
1065	ALL	559591.56	4243207.75	2.61E-08	1.9YrCancerDerived_Inh	2.61E-08
1308	ALL	559651.56	4243327.75	2.61E-08	1.9YrCancerDerived_Inh	2.61E-08
1517	ALL	559331.56	4243427.75	2.61E-08	1.9YrCancerDerived_Inh	2.61E-08
1806	ALL	559611.56	4243547.75	2.59E-08	1.9YrCancerDerived_Inh	2.59E-08
744	ALL	559371.56	4243067.75	2.59E-08	1.9YrCancerDerived_Inh	2.59E-08
1100	ALL	559291.56	4243227.75	2.59E-08	1.9YrCancerDerived_Inh	2.59E-08
1749	ALL	559371.56	4243527.75	2.58E-08	1.9YrCancerDerived_Inh	2.58E-08
1990	ALL	559451.56	4243627.75	2.56E-08	1.9YrCancerDerived_Inh	2.56E-08
699	ALL	559391.56	4243047.75	2.55E-08	1.9YrCancerDerived_Inh	2.55E-08
884	ALL	559551.56	4243127.75	2.55E-08	1.9YrCancerDerived_Inh	2.55E-08
1148	ALL	559611.56	4243247.75	2.53E-08	1.9YrCancerDerived_Inh	2.53E-08
1656	ALL	559351.56	4243487.75	2.51E-08	1.9YrCancerDerived_Inh	2.51E-08
1843	ALL	559391.56	4243567.75	2.51E-08	1.9YrCancerDerived_Inh	2.51E-08
1948	ALL	559571.56	4243607.75	2.51E-08	1.9YrCancerDerived_Inh	2.51E-08
789	ALL	559351.56	4243087.75	2.49E-08	1.9YrCancerDerived_Inh	2.49E-08
1995	ALL	559551.56	4243627.75	2.48E-08	1.9YrCancerDerived_Inh	2.48E-08
2039	ALL	559491.56	4243647.75	2.48E-08	1.9YrCancerDerived_Inh	2.48E-08
747	ALL	559511.56	4243067.75	2.47E-08	1.9YrCancerDerived_Inh	2.47E-08
2040	ALL	559511.56	4243647.75	2.46E-08	1.9YrCancerDerived_Inh	2.46E-08
1901	ALL	559591.56	4243587.75	2.46E-08	1.9YrCancerDerived_Inh	2.46E-08
1762	ALL	559631.56	4243527.75	2.44E-08	1.9YrCancerDerived_Inh	2.44E-08
1671	ALL	559651.56	4243487.75	2.44E-08	1.9YrCancerDerived_Inh	2.44E-08
2038	ALL	559471.56	4243647.75	2.43E-08	1.9YrCancerDerived_Inh	2.43E-08
1488	ALL	559671.56	4243407.75	2.41E-08	1.9YrCancerDerived_Inh	2.41E-08
1055	ALL	559291.56	4243207.75	2.41E-08	1.9YrCancerDerived_Inh	2.41E-08
1442	ALL	559671.56	4243387.75	2.39E-08	1.9YrCancerDerived_Inh	2.39E-08
2041	ALL	559531.56	4243647.75	2.38E-08	1.9YrCancerDerived_Inh	2.38E-08
1534	ALL	559671.56	4243427.75	2.38E-08	1.9YrCancerDerived_Inh	2.38E-08
1989	ALL	559431.56	4243627.75	2.38E-08	1.9YrCancerDerived_Inh	2.38E-08
1854	ALL	559611.56	4243567.75	2.37E-08	1.9YrCancerDerived_Inh	2.37E-08
654	ALL	559411.56	4243027.75	2.36E-08	1.9YrCancerDerived_Inh	2.36E-08
1940	ALL	559411.56	4243607.75	2.36E-08	1.9YrCancerDerived_Inh	2.36E-08
1794	ALL	559371.56	4243547.75	2.33E-08	1.9YrCancerDerived_Inh	2.33E-08
2037	ALL	559451.56	4243647.75	2.32E-08	1.9YrCancerDerived_Inh	2.32E-08
1563	ALL	559331.56	4243447.75	2.31E-08	1.9YrCancerDerived_Inh	2.31E-08
1397	ALL	559671.56	4243367.75	2.31E-08	1.9YrCancerDerived_Inh	2.31E-08
1580	ALL	559671.56	4243447.75	2.30E-08	1.9YrCancerDerived_Inh	2.30E-08
1265	ALL	559651.56	4243307.75	2.29E-08	1.9YrCancerDerived_Inh	2.29E-08
793	ALL	559531.56	4243087.75	2.29E-08	1.9YrCancerDerived_Inh	2.29E-08
1996	ALL	559571.56	4243627.75	2.29E-08	1.9YrCancerDerived_Inh	2.29E-08
930	ALL	559571.56	4243147.75	2.28E-08	1.9YrCancerDerived_Inh	2.28E-08
1891	ALL	559391.56	4243587.75	2.27E-08	1.9YrCancerDerived_Inh	2.27E-08
1717	ALL	559651.56	4243507.75	2.27E-08	1.9YrCancerDerived_Inh	2.27E-08
1949	ALL	559591.56	4243607.75	2.27E-08	1.9YrCancerDerived_Inh	2.27E-08
1702	ALL	559351.56	4243507.75	2.27E-08	1.9YrCancerDerived_Inh	2.27E-08
1020	ALL	559591.56	4243187.75	2.26E-08	1.9YrCancerDerived_Inh	2.26E-08
922	ALL	559311.56	4243147.75	2.26E-08	1.9YrCancerDerived_Inh	2.26E-08
2042	ALL	559551.56	4243647.75	2.26E-08	1.9YrCancerDerived_Inh	2.26E-08
1807	ALL	559631.56	4243547.75	2.25E-08	1.9YrCancerDerived_Inh	2.25E-08
833	ALL	559331.56	4243107.75	2.25E-08	1.9YrCancerDerived_Inh	2.25E-08
2087	ALL	559491.56	4243667.75	2.25E-08	1.9YrCancerDerived_Inh	2.25E-08
2088	ALL	559511.56	4243667.75	2.24E-08	1.9YrCancerDerived_Inh	2.24E-08
1424	ALL	559311.56	4243387.75	2.23E-08	1.9YrCancerDerived_Inh	2.23E-08
1184	ALL	559631.56	4243267.75	2.22E-08	1.9YrCancerDerived_Inh	2.22E-08
2086	ALL	559471.56	4243667.75	2.20E-08	1.9YrCancerDerived_Inh	2.20E-08
1010	ALL	559291.56	4243187.75	2.19E-08	1.9YrCancerDerived_Inh	2.19E-08
1626	ALL	559671.56	4243467.75	2.19E-08	1.9YrCancerDerived_Inh	2.19E-08
2089	ALL	559531.56	4243667.75	2.17E-08	1.9YrCancerDerived_Inh	2.17E-08
1902	ALL	559611.56	4243587.75	2.17E-08	1.9YrCancerDerived_Inh	2.17E-08
1109	ALL	559611.56	4243227.75	2.16E-08	1.9YrCancerDerived_Inh	2.16E-08
698	ALL	559371.56	4243047.75	2.16E-08	1.9YrCancerDerived_Inh	2.16E-08
1353	ALL	559671.56	4243347.75	2.16E-08	1.9YrCancerDerived_Inh	2.16E-08
2036	ALL	559431.56	4243647.75	2.15E-08	1.9YrCancerDerived_Inh	2.15E-08
701	ALL	559511.56	4243047.75	2.14E-08	1.9YrCancerDerived_Inh	2.14E-08
1988	ALL	559411.56	4243627.75	2.14E-08	1.9YrCancerDerived_Inh	2.14E-08
839	ALL	559551.56	4243107.75	2.13E-08	1.9YrCancerDerived_Inh	2.13E-08
1842	ALL	559371.56	4243567.75	2.11E-08	1.9YrCancerDerived_Inh	2.11E-08
1763	ALL	559651.56	4243527.75	2.11E-08	1.9YrCancerDerived_Inh	2.11E-08
743	ALL	559351.56	4243067.75	2.11E-08	1.9YrCancerDerived_Inh	2.11E-08
2085	ALL	559451.56	4243667.75	2.10E-08	1.9YrCancerDerived_Inh	2.10E-08
653	ALL	559391.56	4243027.75	2.10E-08	1.9YrCancerDerived_Inh	2.10E-08
2043	ALL	559571.56	4243647.75	2.10E-08	1.9YrCancerDerived_Inh	2.10E-08
1609	ALL	559331.56	4243467.75	2.08E-08	1.9YrCancerDerived_Inh	2.08E-08

1997	ALL	559591.56	4243627.75	2.08E-08	1.9YrCancerDerived_Inh	2.08E-08
1672	ALL	559671.56	4243487.75	2.07E-08	1.9YrCancerDerived_Inh	2.07E-08
1855	ALL	559631.56	4243567.75	2.07E-08	1.9YrCancerDerived_Inh	2.07E-08
2090	ALL	559551.56	4243667.75	2.07E-08	1.9YrCancerDerived_Inh	2.07E-08
1939	ALL	559391.56	4243607.75	2.07E-08	1.9YrCancerDerived_Inh	2.07E-08
1748	ALL	559351.56	4243527.75	2.06E-08	1.9YrCancerDerived_Inh	2.06E-08
2135	ALL	559491.56	4243687.75	2.05E-08	1.9YrCancerDerived_Inh	2.05E-08
2136	ALL	559511.56	4243687.75	2.04E-08	1.9YrCancerDerived_Inh	2.04E-08
1470	ALL	559311.56	4243407.75	2.02E-08	1.9YrCancerDerived_Inh	2.02E-08
1950	ALL	559611.56	4243607.75	2.02E-08	1.9YrCancerDerived_Inh	2.02E-08
2134	ALL	559471.56	4243687.75	2.01E-08	1.9YrCancerDerived_Inh	2.01E-08
2137	ALL	559531.56	4243687.75	1.99E-08	1.9YrCancerDerived_Inh	1.99E-08
975	ALL	559591.56	4243167.75	1.97E-08	1.9YrCancerDerived_Inh	1.97E-08
1224	ALL	559651.56	4243287.75	1.96E-08	1.9YrCancerDerived_Inh	1.96E-08
966	ALL	559291.56	4243167.75	1.96E-08	1.9YrCancerDerived_Inh	1.96E-08
2084	ALL	559431.56	4243667.75	1.96E-08	1.9YrCancerDerived_Inh	1.96E-08
877	ALL	559311.56	4243127.75	1.96E-08	1.9YrCancerDerived_Inh	1.96E-08
1309	ALL	559671.56	4243327.75	1.96E-08	1.9YrCancerDerived_Inh	1.96E-08
2035	ALL	559411.56	4243647.75	1.95E-08	1.9YrCancerDerived_Inh	1.95E-08
1808	ALL	559651.56	4243547.75	1.95E-08	1.9YrCancerDerived_Inh	1.95E-08
1718	ALL	559671.56	4243507.75	1.95E-08	1.9YrCancerDerived_Inh	1.95E-08
788	ALL	559331.56	4243087.75	1.94E-08	1.9YrCancerDerived_Inh	1.94E-08
885	ALL	559571.56	4243127.75	1.94E-08	1.9YrCancerDerived_Inh	1.94E-08
609	ALL	559411.56	4243007.75	1.94E-08	1.9YrCancerDerived_Inh	1.94E-08
748	ALL	559531.56	4243067.75	1.94E-08	1.9YrCancerDerived_Inh	1.94E-08
1535	ALL	559691.56	4243427.75	1.94E-08	1.9YrCancerDerived_Inh	1.94E-08
1489	ALL	559691.56	4243407.75	1.93E-08	1.9YrCancerDerived_Inh	1.93E-08
2091	ALL	559571.56	4243667.75	1.93E-08	1.9YrCancerDerived_Inh	1.93E-08
1890	ALL	559371.56	4243587.75	1.92E-08	1.9YrCancerDerived_Inh	1.92E-08
2133	ALL	559451.56	4243687.75	1.92E-08	1.9YrCancerDerived_Inh	1.92E-08
2044	ALL	559591.56	4243647.75	1.91E-08	1.9YrCancerDerived_Inh	1.91E-08
1903	ALL	559631.56	4243587.75	1.91E-08	1.9YrCancerDerived_Inh	1.91E-08
655	ALL	559511.56	4243027.75	1.91E-08	1.9YrCancerDerived_Inh	1.91E-08
1581	ALL	559691.56	4243447.75	1.91E-08	1.9YrCancerDerived_Inh	1.91E-08
1655	ALL	559331.56	4243487.75	1.90E-08	1.9YrCancerDerived_Inh	1.90E-08
2138	ALL	559551.56	4243687.75	1.90E-08	1.9YrCancerDerived_Inh	1.90E-08
1443	ALL	559691.56	4243387.75	1.89E-08	1.9YrCancerDerived_Inh	1.89E-08
1066	ALL	559611.56	4243207.75	1.89E-08	1.9YrCancerDerived_Inh	1.89E-08
1987	ALL	559391.56	4243627.75	1.89E-08	1.9YrCancerDerived_Inh	1.89E-08
1793	ALL	559351.56	4243547.75	1.88E-08	1.9YrCancerDerived_Inh	1.88E-08
1516	ALL	559311.56	4243427.75	1.88E-08	1.9YrCancerDerived_Inh	1.88E-08
1149	ALL	559631.56	4243247.75	1.88E-08	1.9YrCancerDerived_Inh	1.88E-08
2183	ALL	559491.56	4243707.75	1.87E-08	1.9YrCancerDerived_Inh	1.87E-08
2184	ALL	559511.56	4243707.75	1.87E-08	1.9YrCancerDerived_Inh	1.87E-08
1998	ALL	559611.56	4243627.75	1.87E-08	1.9YrCancerDerived_Inh	1.87E-08
1142	ALL	559271.56	4243247.75	1.86E-08	1.9YrCancerDerived_Inh	1.86E-08
1627	ALL	559691.56	4243467.75	1.85E-08	1.9YrCancerDerived_Inh	1.85E-08
1099	ALL	559271.56	4243227.75	1.84E-08	1.9YrCancerDerived_Inh	1.84E-08
2182	ALL	559471.56	4243707.75	1.84E-08	1.9YrCancerDerived_Inh	1.84E-08
2185	ALL	559531.56	4243707.75	1.83E-08	1.9YrCancerDerived_Inh	1.83E-08
1764	ALL	559671.56	4243527.75	1.82E-08	1.9YrCancerDerived_Inh	1.82E-08
652	ALL	559371.56	4243027.75	1.82E-08	1.9YrCancerDerived_Inh	1.82E-08
1856	ALL	559651.56	4243567.75	1.82E-08	1.9YrCancerDerived_Inh	1.82E-08
794	ALL	559551.56	4243087.75	1.81E-08	1.9YrCancerDerived_Inh	1.81E-08
697	ALL	559351.56	4243047.75	1.80E-08	1.9YrCancerDerived_Inh	1.80E-08
1398	ALL	559691.56	4243367.75	1.80E-08	1.9YrCancerDerived_Inh	1.80E-08
2132	ALL	559431.56	4243687.75	1.79E-08	1.9YrCancerDerived_Inh	1.79E-08
2083	ALL	559411.56	4243667.75	1.79E-08	1.9YrCancerDerived_Inh	1.79E-08
2139	ALL	559571.56	4243687.75	1.78E-08	1.9YrCancerDerived_Inh	1.78E-08
1951	ALL	559631.56	4243607.75	1.78E-08	1.9YrCancerDerived_Inh	1.78E-08
2092	ALL	559591.56	4243667.75	1.77E-08	1.9YrCancerDerived_Inh	1.77E-08
1673	ALL	559691.56	4243487.75	1.77E-08	1.9YrCancerDerived_Inh	1.77E-08
1054	ALL	559271.56	4243207.75	1.77E-08	1.9YrCancerDerived_Inh	1.77E-08
1938	ALL	559371.56	4243607.75	1.76E-08	1.9YrCancerDerived_Inh	1.76E-08
2181	ALL	559451.56	4243707.75	1.76E-08	1.9YrCancerDerived_Inh	1.76E-08
608	ALL	559391.56	4243007.75	1.75E-08	1.9YrCancerDerived_Inh	1.75E-08
2186	ALL	559551.56	4243707.75	1.75E-08	1.9YrCancerDerived_Inh	1.75E-08
1701	ALL	559331.56	4243507.75	1.75E-08	1.9YrCancerDerived_Inh	1.75E-08
1266	ALL	559671.56	4243307.75	1.73E-08	1.9YrCancerDerived_Inh	1.73E-08
2034	ALL	559391.56	4243647.75	1.73E-08	1.9YrCancerDerived_Inh	1.73E-08
2045	ALL	559611.56	4243647.75	1.73E-08	1.9YrCancerDerived_Inh	1.73E-08
2231	ALL	559491.56	4243727.75	1.72E-08	1.9YrCancerDerived_Inh	1.72E-08
832	ALL	559311.56	4243107.75	1.72E-08	1.9YrCancerDerived_Inh	1.72E-08
2232	ALL	559511.56	4243727.75	1.72E-08	1.9YrCancerDerived_Inh	1.72E-08

1841	ALL	559351.56	4243567.75	1.72E-08	1.9YrCancerDerived_Inh	1.72E-08
565	ALL	559431.56	4242987.75	1.71E-08	1.9YrCancerDerived_Inh	1.71E-08
931	ALL	559591.56	4243147.75	1.71E-08	1.9YrCancerDerived_Inh	1.71E-08
921	ALL	559291.56	4243147.75	1.71E-08	1.9YrCancerDerived_Inh	1.71E-08
1562	ALL	559311.56	4243447.75	1.71E-08	1.9YrCancerDerived_Inh	1.71E-08
1809	ALL	559671.56	4243547.75	1.70E-08	1.9YrCancerDerived_Inh	1.70E-08
702	ALL	559531.56	4243047.75	1.69E-08	1.9YrCancerDerived_Inh	1.69E-08
742	ALL	559331.56	4243067.75	1.69E-08	1.9YrCancerDerived_Inh	1.69E-08
1904	ALL	559651.56	4243587.75	1.69E-08	1.9YrCancerDerived_Inh	1.69E-08
2230	ALL	559471.56	4243727.75	1.69E-08	1.9YrCancerDerived_Inh	1.69E-08
2233	ALL	559531.56	4243727.75	1.68E-08	1.9YrCancerDerived_Inh	1.68E-08
1185	ALL	559651.56	4243267.75	1.68E-08	1.9YrCancerDerived_Inh	1.68E-08
1719	ALL	559691.56	4243507.75	1.67E-08	1.9YrCancerDerived_Inh	1.67E-08
1354	ALL	559691.56	4243347.75	1.67E-08	1.9YrCancerDerived_Inh	1.67E-08
1999	ALL	559631.56	4243627.75	1.67E-08	1.9YrCancerDerived_Inh	1.67E-08
840	ALL	559571.56	4243107.75	1.67E-08	1.9YrCancerDerived_Inh	1.67E-08
1021	ALL	559611.56	4243187.75	1.66E-08	1.9YrCancerDerived_Inh	1.66E-08
1009	ALL	559271.56	4243187.75	1.66E-08	1.9YrCancerDerived_Inh	1.66E-08
2180	ALL	559431.56	4243707.75	1.65E-08	1.9YrCancerDerived_Inh	1.65E-08
1423	ALL	559291.56	4243387.75	1.65E-08	1.9YrCancerDerived_Inh	1.65E-08
2187	ALL	559571.56	4243707.75	1.65E-08	1.9YrCancerDerived_Inh	1.65E-08
2140	ALL	559591.56	4243687.75	1.65E-08	1.9YrCancerDerived_Inh	1.65E-08
2131	ALL	559411.56	4243687.75	1.64E-08	1.9YrCancerDerived_Inh	1.64E-08
564	ALL	559411.56	4242987.75	1.62E-08	1.9YrCancerDerived_Inh	1.62E-08
1110	ALL	559631.56	4243227.75	1.62E-08	1.9YrCancerDerived_Inh	1.62E-08
2234	ALL	559551.56	4243727.75	1.62E-08	1.9YrCancerDerived_Inh	1.62E-08
1986	ALL	559371.56	4243627.75	1.62E-08	1.9YrCancerDerived_Inh	1.62E-08
2229	ALL	559451.56	4243727.75	1.62E-08	1.9YrCancerDerived_Inh	1.62E-08
1747	ALL	559331.56	4243527.75	1.61E-08	1.9YrCancerDerived_Inh	1.61E-08
2093	ALL	559611.56	4243667.75	1.61E-08	1.9YrCancerDerived_Inh	1.61E-08
1857	ALL	559671.56	4243567.75	1.59E-08	1.9YrCancerDerived_Inh	1.59E-08
1536	ALL	559711.56	4243427.75	1.59E-08	1.9YrCancerDerived_Inh	1.59E-08
1582	ALL	559711.56	4243447.75	1.59E-08	1.9YrCancerDerived_Inh	1.59E-08
2082	ALL	559391.56	4243667.75	1.59E-08	1.9YrCancerDerived_Inh	1.59E-08
1889	ALL	559351.56	4243587.75	1.58E-08	1.9YrCancerDerived_Inh	1.58E-08
1765	ALL	559691.56	4243527.75	1.58E-08	1.9YrCancerDerived_Inh	1.58E-08
1952	ALL	559651.56	4243607.75	1.58E-08	1.9YrCancerDerived_Inh	1.58E-08
1490	ALL	559711.56	4243407.75	1.57E-08	1.9YrCancerDerived_Inh	1.57E-08
1628	ALL	559711.56	4243467.75	1.56E-08	1.9YrCancerDerived_Inh	1.56E-08
749	ALL	559551.56	4243067.75	1.56E-08	1.9YrCancerDerived_Inh	1.56E-08
2046	ALL	559631.56	4243647.75	1.56E-08	1.9YrCancerDerived_Inh	1.56E-08
651	ALL	559351.56	4243027.75	1.55E-08	1.9YrCancerDerived_Inh	1.55E-08
607	ALL	559371.56	4243007.75	1.55E-08	1.9YrCancerDerived_Inh	1.55E-08
1608	ALL	559311.56	4243467.75	1.55E-08	1.9YrCancerDerived_Inh	1.55E-08
2188	ALL	559591.56	4243707.75	1.53E-08	1.9YrCancerDerived_Inh	1.53E-08
2235	ALL	559571.56	4243727.75	1.53E-08	1.9YrCancerDerived_Inh	1.53E-08
965	ALL	559271.56	4243167.75	1.53E-08	1.9YrCancerDerived_Inh	1.53E-08
787	ALL	559311.56	4243087.75	1.52E-08	1.9YrCancerDerived_Inh	1.52E-08
1674	ALL	559711.56	4243487.75	1.52E-08	1.9YrCancerDerived_Inh	1.52E-08
2228	ALL	559431.56	4243727.75	1.52E-08	1.9YrCancerDerived_Inh	1.52E-08
1310	ALL	559691.56	4243327.75	1.52E-08	1.9YrCancerDerived_Inh	1.52E-08
1444	ALL	559711.56	4243387.75	1.51E-08	1.9YrCancerDerived_Inh	1.51E-08
2179	ALL	559411.56	4243707.75	1.51E-08	1.9YrCancerDerived_Inh	1.51E-08
876	ALL	559291.56	4243127.75	1.51E-08	1.9YrCancerDerived_Inh	1.51E-08
1225	ALL	559671.56	4243287.75	1.51E-08	1.9YrCancerDerived_Inh	1.51E-08
2141	ALL	559611.56	4243687.75	1.50E-08	1.9YrCancerDerived_Inh	1.50E-08
1469	ALL	559291.56	4243407.75	1.50E-08	1.9YrCancerDerived_Inh	1.50E-08
886	ALL	559591.56	4243127.75	1.50E-08	1.9YrCancerDerived_Inh	1.50E-08
656	ALL	559531.56	4243027.75	1.50E-08	1.9YrCancerDerived_Inh	1.50E-08
1905	ALL	559671.56	4243587.75	1.50E-08	1.9YrCancerDerived_Inh	1.50E-08
563	ALL	559391.56	4242987.75	1.49E-08	1.9YrCancerDerived_Inh	1.49E-08
1810	ALL	559691.56	4243547.75	1.49E-08	1.9YrCancerDerived_Inh	1.49E-08
2033	ALL	559371.56	4243647.75	1.49E-08	1.9YrCancerDerived_Inh	1.49E-08
1792	ALL	559331.56	4243547.75	1.49E-08	1.9YrCancerDerived_Inh	1.49E-08
2000	ALL	559651.56	4243627.75	1.49E-08	1.9YrCancerDerived_Inh	1.49E-08
696	ALL	559331.56	4243047.75	1.48E-08	1.9YrCancerDerived_Inh	1.48E-08
976	ALL	559611.56	4243167.75	1.47E-08	1.9YrCancerDerived_Inh	1.47E-08
1937	ALL	559351.56	4243607.75	1.47E-08	1.9YrCancerDerived_Inh	1.47E-08
2130	ALL	559391.56	4243687.75	1.47E-08	1.9YrCancerDerived_Inh	1.47E-08
2094	ALL	559631.56	4243667.75	1.46E-08	1.9YrCancerDerived_Inh	1.46E-08
1720	ALL	559711.56	4243507.75	1.45E-08	1.9YrCancerDerived_Inh	1.45E-08
520	ALL	559451.56	4242967.75	1.45E-08	1.9YrCancerDerived_Inh	1.45E-08
795	ALL	559571.56	4243087.75	1.45E-08	1.9YrCancerDerived_Inh	1.45E-08
1150	ALL	559651.56	4243247.75	1.44E-08	1.9YrCancerDerived_Inh	1.44E-08

519	ALL	559431.56	4242967.75	1.44E-08	1.9YrCancerDerived_Inh	1.44E-08
1399	ALL	559711.56	4243367.75	1.43E-08	1.9YrCancerDerived_Inh	1.43E-08
2236	ALL	559591.56	4243727.75	1.43E-08	1.9YrCancerDerived_Inh	1.43E-08
1654	ALL	559311.56	4243487.75	1.43E-08	1.9YrCancerDerived_Inh	1.43E-08
1067	ALL	559631.56	4243207.75	1.43E-08	1.9YrCancerDerived_Inh	1.43E-08
1858	ALL	559691.56	4243567.75	1.41E-08	1.9YrCancerDerived_Inh	1.41E-08
1953	ALL	559671.56	4243607.75	1.41E-08	1.9YrCancerDerived_Inh	1.41E-08
2189	ALL	559611.56	4243707.75	1.41E-08	1.9YrCancerDerived_Inh	1.41E-08
2227	ALL	559411.56	4243727.75	1.40E-08	1.9YrCancerDerived_Inh	1.40E-08
2047	ALL	559651.56	4243647.75	1.39E-08	1.9YrCancerDerived_Inh	1.39E-08
1141	ALL	559251.56	4243247.75	1.39E-08	1.9YrCancerDerived_Inh	1.39E-08
1098	ALL	559251.56	4243227.75	1.39E-08	1.9YrCancerDerived_Inh	1.39E-08
1766	ALL	559711.56	4243527.75	1.39E-08	1.9YrCancerDerived_Inh	1.39E-08
2081	ALL	559371.56	4243667.75	1.38E-08	1.9YrCancerDerived_Inh	1.38E-08
518	ALL	559411.56	4242967.75	1.38E-08	1.9YrCancerDerived_Inh	1.38E-08
1515	ALL	559291.56	4243427.75	1.38E-08	1.9YrCancerDerived_Inh	1.38E-08
1840	ALL	559331.56	4243567.75	1.38E-08	1.9YrCancerDerived_Inh	1.38E-08
703	ALL	559551.56	4243047.75	1.37E-08	1.9YrCancerDerived_Inh	1.37E-08
2142	ALL	559631.56	4243687.75	1.37E-08	1.9YrCancerDerived_Inh	1.37E-08
1180	ALL	559251.56	4243267.75	1.37E-08	1.9YrCancerDerived_Inh	1.37E-08
1985	ALL	559351.56	4243627.75	1.36E-08	1.9YrCancerDerived_Inh	1.36E-08
920	ALL	559271.56	4243147.75	1.36E-08	1.9YrCancerDerived_Inh	1.36E-08
2178	ALL	559391.56	4243707.75	1.36E-08	1.9YrCancerDerived_Inh	1.36E-08
1267	ALL	559691.56	4243307.75	1.35E-08	1.9YrCancerDerived_Inh	1.35E-08
1053	ALL	559251.56	4243207.75	1.35E-08	1.9YrCancerDerived_Inh	1.35E-08
741	ALL	559311.56	4243067.75	1.35E-08	1.9YrCancerDerived_Inh	1.35E-08
606	ALL	559351.56	4243007.75	1.34E-08	1.9YrCancerDerived_Inh	1.34E-08
831	ALL	559291.56	4243107.75	1.34E-08	1.9YrCancerDerived_Inh	1.34E-08
562	ALL	559371.56	4242987.75	1.34E-08	1.9YrCancerDerived_Inh	1.34E-08
1583	ALL	559731.56	4243447.75	1.33E-08	1.9YrCancerDerived_Inh	1.33E-08
1906	ALL	559691.56	4243587.75	1.33E-08	1.9YrCancerDerived_Inh	1.33E-08
610	ALL	559531.56	4243007.75	1.33E-08	1.9YrCancerDerived_Inh	1.33E-08
1700	ALL	559311.56	4243507.75	1.33E-08	1.9YrCancerDerived_Inh	1.33E-08
1355	ALL	559711.56	4243347.75	1.33E-08	1.9YrCancerDerived_Inh	1.33E-08
2001	ALL	559671.56	4243627.75	1.33E-08	1.9YrCancerDerived_Inh	1.33E-08
1629	ALL	559731.56	4243467.75	1.32E-08	1.9YrCancerDerived_Inh	1.32E-08
1811	ALL	559711.56	4243547.75	1.32E-08	1.9YrCancerDerived_Inh	1.32E-08
1537	ALL	559731.56	4243427.75	1.32E-08	1.9YrCancerDerived_Inh	1.32E-08
2237	ALL	559611.56	4243727.75	1.32E-08	1.9YrCancerDerived_Inh	1.32E-08
1215	ALL	559251.56	4243287.75	1.32E-08	1.9YrCancerDerived_Inh	1.32E-08
841	ALL	559591.56	4243107.75	1.31E-08	1.9YrCancerDerived_Inh	1.31E-08
932	ALL	559611.56	4243147.75	1.31E-08	1.9YrCancerDerived_Inh	1.31E-08
2095	ALL	559651.56	4243667.75	1.31E-08	1.9YrCancerDerived_Inh	1.31E-08
1186	ALL	559671.56	4243267.75	1.31E-08	1.9YrCancerDerived_Inh	1.31E-08
1675	ALL	559731.56	4243487.75	1.31E-08	1.9YrCancerDerived_Inh	1.31E-08
650	ALL	559331.56	4243027.75	1.30E-08	1.9YrCancerDerived_Inh	1.30E-08
1888	ALL	559331.56	4243587.75	1.29E-08	1.9YrCancerDerived_Inh	1.29E-08
517	ALL	559391.56	4242967.75	1.29E-08	1.9YrCancerDerived_Inh	1.29E-08
1008	ALL	559251.56	4243187.75	1.29E-08	1.9YrCancerDerived_Inh	1.29E-08
1491	ALL	559731.56	4243407.75	1.29E-08	1.9YrCancerDerived_Inh	1.29E-08
2129	ALL	559371.56	4243687.75	1.28E-08	1.9YrCancerDerived_Inh	1.28E-08
2190	ALL	559631.56	4243707.75	1.28E-08	1.9YrCancerDerived_Inh	1.28E-08
1561	ALL	559291.56	4243447.75	1.28E-08	1.9YrCancerDerived_Inh	1.28E-08
1721	ALL	559731.56	4243507.75	1.27E-08	1.9YrCancerDerived_Inh	1.27E-08
750	ALL	559571.56	4243067.75	1.27E-08	1.9YrCancerDerived_Inh	1.27E-08
1022	ALL	559631.56	4243187.75	1.27E-08	1.9YrCancerDerived_Inh	1.27E-08
2032	ALL	559351.56	4243647.75	1.26E-08	1.9YrCancerDerived_Inh	1.26E-08
1111	ALL	559651.56	4243227.75	1.26E-08	1.9YrCancerDerived_Inh	1.26E-08
2226	ALL	559391.56	4243727.75	1.26E-08	1.9YrCancerDerived_Inh	1.26E-08
1859	ALL	559711.56	4243567.75	1.26E-08	1.9YrCancerDerived_Inh	1.26E-08
1954	ALL	559691.56	4243607.75	1.26E-08	1.9YrCancerDerived_Inh	1.26E-08
2048	ALL	559671.56	4243647.75	1.25E-08	1.9YrCancerDerived_Inh	1.25E-08
1746	ALL	559311.56	4243527.75	1.25E-08	1.9YrCancerDerived_Inh	1.25E-08
1468	ALL	559271.56	4243407.75	1.24E-08	1.9YrCancerDerived_Inh	1.24E-08
1445	ALL	559731.56	4243387.75	1.23E-08	1.9YrCancerDerived_Inh	1.23E-08
2143	ALL	559651.56	4243687.75	1.23E-08	1.9YrCancerDerived_Inh	1.23E-08
475	ALL	559451.56	4242947.75	1.23E-08	1.9YrCancerDerived_Inh	1.23E-08
474	ALL	559431.56	4242947.75	1.23E-08	1.9YrCancerDerived_Inh	1.23E-08
1767	ALL	559731.56	4243527.75	1.22E-08	1.9YrCancerDerived_Inh	1.22E-08
657	ALL	559551.56	4243027.75	1.22E-08	1.9YrCancerDerived_Inh	1.22E-08
964	ALL	559251.56	4243167.75	1.21E-08	1.9YrCancerDerived_Inh	1.21E-08
1311	ALL	559711.56	4243327.75	1.21E-08	1.9YrCancerDerived_Inh	1.21E-08
875	ALL	559271.56	4243127.75	1.21E-08	1.9YrCancerDerived_Inh	1.21E-08
695	ALL	559311.56	4243047.75	1.21E-08	1.9YrCancerDerived_Inh	1.21E-08

2238	ALL	559631.56	4243727.75	1.20E-08	1.9YrCancerDerived_Inh	1.20E-08
786	ALL	559291.56	4243087.75	1.20E-08	1.9YrCancerDerived_Inh	1.20E-08
1936	ALL	559331.56	4243607.75	1.20E-08	1.9YrCancerDerived_Inh	1.20E-08
2177	ALL	559371.56	4243707.75	1.19E-08	1.9YrCancerDerived_Inh	1.19E-08
1226	ALL	559691.56	4243287.75	1.19E-08	1.9YrCancerDerived_Inh	1.19E-08
1607	ALL	559291.56	4243467.75	1.19E-08	1.9YrCancerDerived_Inh	1.19E-08
473	ALL	559411.56	4242947.75	1.19E-08	1.9YrCancerDerived_Inh	1.19E-08
1907	ALL	559711.56	4243587.75	1.19E-08	1.9YrCancerDerived_Inh	1.19E-08
2002	ALL	559691.56	4243627.75	1.19E-08	1.9YrCancerDerived_Inh	1.19E-08
561	ALL	559351.56	4242987.75	1.18E-08	1.9YrCancerDerived_Inh	1.18E-08
2080	ALL	559351.56	4243667.75	1.18E-08	1.9YrCancerDerived_Inh	1.18E-08
516	ALL	559371.56	4242967.75	1.18E-08	1.9YrCancerDerived_Inh	1.18E-08
2096	ALL	559671.56	4243667.75	1.17E-08	1.9YrCancerDerived_Inh	1.17E-08
1812	ALL	559731.56	4243547.75	1.17E-08	1.9YrCancerDerived_Inh	1.17E-08
1791	ALL	559311.56	4243547.75	1.17E-08	1.9YrCancerDerived_Inh	1.17E-08
887	ALL	559611.56	4243127.75	1.17E-08	1.9YrCancerDerived_Inh	1.17E-08
796	ALL	559591.56	4243087.75	1.16E-08	1.9YrCancerDerived_Inh	1.16E-08
1400	ALL	559731.56	4243367.75	1.16E-08	1.9YrCancerDerived_Inh	1.16E-08
2191	ALL	559651.56	4243707.75	1.16E-08	1.9YrCancerDerived_Inh	1.16E-08
605	ALL	559331.56	4243007.75	1.15E-08	1.9YrCancerDerived_Inh	1.15E-08
1151	ALL	559671.56	4243247.75	1.14E-08	1.9YrCancerDerived_Inh	1.14E-08
977	ALL	559631.56	4243167.75	1.14E-08	1.9YrCancerDerived_Inh	1.14E-08
1630	ALL	559751.56	4243467.75	1.13E-08	1.9YrCancerDerived_Inh	1.13E-08
1584	ALL	559751.56	4243447.75	1.13E-08	1.9YrCancerDerived_Inh	1.13E-08
704	ALL	559571.56	4243047.75	1.13E-08	1.9YrCancerDerived_Inh	1.13E-08
472	ALL	559391.56	4242947.75	1.13E-08	1.9YrCancerDerived_Inh	1.13E-08
1676	ALL	559751.56	4243487.75	1.13E-08	1.9YrCancerDerived_Inh	1.13E-08
1955	ALL	559711.56	4243607.75	1.12E-08	1.9YrCancerDerived_Inh	1.12E-08
1984	ALL	559331.56	4243627.75	1.12E-08	1.9YrCancerDerived_Inh	1.12E-08
1860	ALL	559731.56	4243567.75	1.12E-08	1.9YrCancerDerived_Inh	1.12E-08
1068	ALL	559651.56	4243207.75	1.12E-08	1.9YrCancerDerived_Inh	1.12E-08
2049	ALL	559691.56	4243647.75	1.12E-08	1.9YrCancerDerived_Inh	1.12E-08
2225	ALL	559371.56	4243727.75	1.11E-08	1.9YrCancerDerived_Inh	1.11E-08
2144	ALL	559671.56	4243687.75	1.11E-08	1.9YrCancerDerived_Inh	1.11E-08
919	ALL	559251.56	4243147.75	1.11E-08	1.9YrCancerDerived_Inh	1.11E-08
1653	ALL	559291.56	4243487.75	1.11E-08	1.9YrCancerDerived_Inh	1.11E-08
1722	ALL	559751.56	4243507.75	1.11E-08	1.9YrCancerDerived_Inh	1.11E-08
1538	ALL	559751.56	4243427.75	1.11E-08	1.9YrCancerDerived_Inh	1.11E-08
1514	ALL	559271.56	4243427.75	1.10E-08	1.9YrCancerDerived_Inh	1.10E-08
2128	ALL	559351.56	4243687.75	1.10E-08	1.9YrCancerDerived_Inh	1.10E-08
1839	ALL	559311.56	4243567.75	1.09E-08	1.9YrCancerDerived_Inh	1.09E-08
2239	ALL	559651.56	4243727.75	1.09E-08	1.9YrCancerDerived_Inh	1.09E-08
611	ALL	559551.56	4243007.75	1.09E-08	1.9YrCancerDerived_Inh	1.09E-08
1097	ALL	559231.56	4243227.75	1.08E-08	1.9YrCancerDerived_Inh	1.08E-08
1268	ALL	559711.56	4243307.75	1.08E-08	1.9YrCancerDerived_Inh	1.08E-08
740	ALL	559291.56	4243067.75	1.08E-08	1.9YrCancerDerived_Inh	1.08E-08
1140	ALL	559231.56	4243247.75	1.08E-08	1.9YrCancerDerived_Inh	1.08E-08
649	ALL	559311.56	4243027.75	1.08E-08	1.9YrCancerDerived_Inh	1.08E-08
1768	ALL	559751.56	4243527.75	1.08E-08	1.9YrCancerDerived_Inh	1.08E-08
1356	ALL	559731.56	4243347.75	1.07E-08	1.9YrCancerDerived_Inh	1.07E-08
830	ALL	559271.56	4243107.75	1.07E-08	1.9YrCancerDerived_Inh	1.07E-08
1052	ALL	559231.56	4243207.75	1.07E-08	1.9YrCancerDerived_Inh	1.07E-08
1492	ALL	559751.56	4243407.75	1.07E-08	1.9YrCancerDerived_Inh	1.07E-08
1908	ALL	559731.56	4243587.75	1.07E-08	1.9YrCancerDerived_Inh	1.07E-08
429	ALL	559431.56	4242927.75	1.07E-08	1.9YrCancerDerived_Inh	1.07E-08
430	ALL	559451.56	4242927.75	1.06E-08	1.9YrCancerDerived_Inh	1.06E-08
2003	ALL	559711.56	4243627.75	1.06E-08	1.9YrCancerDerived_Inh	1.06E-08
1179	ALL	559231.56	4243267.75	1.06E-08	1.9YrCancerDerived_Inh	1.06E-08
2097	ALL	559691.56	4243667.75	1.06E-08	1.9YrCancerDerived_Inh	1.06E-08
2031	ALL	559331.56	4243647.75	1.05E-08	1.9YrCancerDerived_Inh	1.05E-08
515	ALL	559351.56	4242967.75	1.05E-08	1.9YrCancerDerived_Inh	1.05E-08
1187	ALL	559691.56	4243267.75	1.05E-08	1.9YrCancerDerived_Inh	1.05E-08
2192	ALL	559671.56	4243707.75	1.05E-08	1.9YrCancerDerived_Inh	1.05E-08
842	ALL	559611.56	4243107.75	1.04E-08	1.9YrCancerDerived_Inh	1.04E-08
1813	ALL	559751.56	4243547.75	1.04E-08	1.9YrCancerDerived_Inh	1.04E-08
428	ALL	559411.56	4242927.75	1.04E-08	1.9YrCancerDerived_Inh	1.04E-08
471	ALL	559371.56	4242947.75	1.04E-08	1.9YrCancerDerived_Inh	1.04E-08
1887	ALL	559311.56	4243587.75	1.04E-08	1.9YrCancerDerived_Inh	1.04E-08
751	ALL	559591.56	4243067.75	1.03E-08	1.9YrCancerDerived_Inh	1.03E-08
1007	ALL	559231.56	4243187.75	1.03E-08	1.9YrCancerDerived_Inh	1.03E-08
2176	ALL	559351.56	4243707.75	1.03E-08	1.9YrCancerDerived_Inh	1.03E-08
431	ALL	559471.56	4242927.75	1.03E-08	1.9YrCancerDerived_Inh	1.03E-08
1699	ALL	559291.56	4243507.75	1.03E-08	1.9YrCancerDerived_Inh	1.03E-08
560	ALL	559331.56	4242987.75	1.03E-08	1.9YrCancerDerived_Inh	1.03E-08

933	ALL	559631.56	4243147.75	1.02E-08	1.9YrCancerDerived_Inh	1.02E-08
1214	ALL	559231.56	4243287.75	1.02E-08	1.9YrCancerDerived_Inh	1.02E-08
1446	ALL	559751.56	4243387.75	1.02E-08	1.9YrCancerDerived_Inh	1.02E-08
1956	ALL	559731.56	4243607.75	1.01E-08	1.9YrCancerDerived_Inh	1.01E-08
1112	ALL	559671.56	4243227.75	1.01E-08	1.9YrCancerDerived_Inh	1.01E-08
658	ALL	559571.56	4243027.75	1.01E-08	1.9YrCancerDerived_Inh	1.01E-08
2050	ALL	559711.56	4243647.75	1.01E-08	1.9YrCancerDerived_Inh	1.01E-08
1560	ALL	559271.56	4243447.75	1.00E-08	1.9YrCancerDerived_Inh	1.00E-08
1861	ALL	559751.56	4243567.75	1.00E-08	1.9YrCancerDerived_Inh	1.00E-08
1023	ALL	559651.56	4243187.75	9.99E-09	1.9YrCancerDerived_Inh	9.99E-09
2145	ALL	559691.56	4243687.75	9.99E-09	1.9YrCancerDerived_Inh	9.99E-09
874	ALL	559251.56	4243127.75	9.95E-09	1.9YrCancerDerived_Inh	9.95E-09
2240	ALL	559671.56	4243727.75	9.93E-09	1.9YrCancerDerived_Inh	9.93E-09
427	ALL	559391.56	4242927.75	9.92E-09	1.9YrCancerDerived_Inh	9.92E-09
2079	ALL	559331.56	4243667.75	9.89E-09	1.9YrCancerDerived_Inh	9.89E-09
1312	ALL	559731.56	4243327.75	9.82E-09	1.9YrCancerDerived_Inh	9.82E-09
963	ALL	559231.56	4243167.75	9.81E-09	1.9YrCancerDerived_Inh	9.81E-09
694	ALL	559291.56	4243047.75	9.78E-09	1.9YrCancerDerived_Inh	9.78E-09
1935	ALL	559311.56	4243607.75	9.75E-09	1.9YrCancerDerived_Inh	9.75E-09
1253	ALL	559231.56	4243307.75	9.74E-09	1.9YrCancerDerived_Inh	9.74E-09
1677	ALL	559771.56	4243487.75	9.72E-09	1.9YrCancerDerived_Inh	9.72E-09
1631	ALL	559771.56	4243467.75	9.71E-09	1.9YrCancerDerived_Inh	9.71E-09
2224	ALL	559351.56	4243727.75	9.69E-09	1.9YrCancerDerived_Inh	9.69E-09
566	ALL	559551.56	4242987.75	9.69E-09	1.9YrCancerDerived_Inh	9.69E-09
604	ALL	559311.56	4243007.75	9.66E-09	1.9YrCancerDerived_Inh	9.66E-09
1723	ALL	559771.56	4243507.75	9.66E-09	1.9YrCancerDerived_Inh	9.66E-09
1227	ALL	559711.56	4243287.75	9.65E-09	1.9YrCancerDerived_Inh	9.65E-09
1745	ALL	559291.56	4243527.75	9.64E-09	1.9YrCancerDerived_Inh	9.64E-09
785	ALL	559271.56	4243087.75	9.63E-09	1.9YrCancerDerived_Inh	9.63E-09
2004	ALL	559731.56	4243627.75	9.61E-09	1.9YrCancerDerived_Inh	9.61E-09
1909	ALL	559751.56	4243587.75	9.60E-09	1.9YrCancerDerived_Inh	9.60E-09
1585	ALL	559771.56	4243447.75	9.58E-09	1.9YrCancerDerived_Inh	9.58E-09
1401	ALL	559751.56	4243367.75	9.56E-09	1.9YrCancerDerived_Inh	9.56E-09
2098	ALL	559711.56	4243667.75	9.54E-09	1.9YrCancerDerived_Inh	9.54E-09
2193	ALL	559691.56	4243707.75	9.49E-09	1.9YrCancerDerived_Inh	9.49E-09
1769	ALL	559771.56	4243527.75	9.49E-09	1.9YrCancerDerived_Inh	9.49E-09
470	ALL	559351.56	4242947.75	9.39E-09	1.9YrCancerDerived_Inh	9.39E-09
797	ALL	559611.56	4243087.75	9.36E-09	1.9YrCancerDerived_Inh	9.36E-09
383	ALL	559431.56	4242907.75	9.35E-09	1.9YrCancerDerived_Inh	9.35E-09
1606	ALL	559271.56	4243467.75	9.34E-09	1.9YrCancerDerived_Inh	9.34E-09
1539	ALL	559771.56	4243427.75	9.33E-09	1.9YrCancerDerived_Inh	9.33E-09
2127	ALL	559331.56	4243687.75	9.30E-09	1.9YrCancerDerived_Inh	9.30E-09
705	ALL	559591.56	4243047.75	9.30E-09	1.9YrCancerDerived_Inh	9.30E-09
384	ALL	559451.56	4242907.75	9.29E-09	1.9YrCancerDerived_Inh	9.29E-09
1152	ALL	559691.56	4243247.75	9.26E-09	1.9YrCancerDerived_Inh	9.26E-09
1814	ALL	559771.56	4243547.75	9.25E-09	1.9YrCancerDerived_Inh	9.25E-09
426	ALL	559371.56	4242927.75	9.24E-09	1.9YrCancerDerived_Inh	9.24E-09
888	ALL	559631.56	4243127.75	9.23E-09	1.9YrCancerDerived_Inh	9.23E-09
514	ALL	559331.56	4242967.75	9.22E-09	1.9YrCancerDerived_Inh	9.22E-09
382	ALL	559411.56	4242907.75	9.20E-09	1.9YrCancerDerived_Inh	9.20E-09
1957	ALL	559751.56	4243607.75	9.18E-09	1.9YrCancerDerived_Inh	9.18E-09
918	ALL	559231.56	4243147.75	9.16E-09	1.9YrCancerDerived_Inh	9.16E-09
1790	ALL	559291.56	4243547.75	9.15E-09	1.9YrCancerDerived_Inh	9.15E-09
1983	ALL	559311.56	4243627.75	9.14E-09	1.9YrCancerDerived_Inh	9.14E-09
2051	ALL	559731.56	4243647.75	9.14E-09	1.9YrCancerDerived_Inh	9.14E-09
2241	ALL	559691.56	4243727.75	9.08E-09	1.9YrCancerDerived_Inh	9.08E-09
612	ALL	559571.56	4243007.75	9.07E-09	1.9YrCancerDerived_Inh	9.07E-09
2146	ALL	559711.56	4243687.75	9.06E-09	1.9YrCancerDerived_Inh	9.06E-09
385	ALL	559471.56	4242907.75	9.02E-09	1.9YrCancerDerived_Inh	9.02E-09
978	ALL	559651.56	4243167.75	9.01E-09	1.9YrCancerDerived_Inh	9.01E-09
1069	ALL	559671.56	4243207.75	8.99E-09	1.9YrCancerDerived_Inh	8.99E-09
1862	ALL	559771.56	4243567.75	8.97E-09	1.9YrCancerDerived_Inh	8.97E-09
1493	ALL	559771.56	4243407.75	8.96E-09	1.9YrCancerDerived_Inh	8.96E-09
1513	ALL	559251.56	4243427.75	8.93E-09	1.9YrCancerDerived_Inh	8.93E-09
1559	ALL	559251.56	4243447.75	8.91E-09	1.9YrCancerDerived_Inh	8.91E-09
648	ALL	559291.56	4243027.75	8.89E-09	1.9YrCancerDerived_Inh	8.89E-09
1269	ALL	559731.56	4243307.75	8.87E-09	1.9YrCancerDerived_Inh	8.87E-09
1357	ALL	559751.56	4243347.75	8.86E-09	1.9YrCancerDerived_Inh	8.86E-09
829	ALL	559251.56	4243107.75	8.86E-09	1.9YrCancerDerived_Inh	8.86E-09
381	ALL	559391.56	4242907.75	8.83E-09	1.9YrCancerDerived_Inh	8.83E-09
2175	ALL	559331.56	4243707.75	8.79E-09	1.9YrCancerDerived_Inh	8.79E-09
1652	ALL	559271.56	4243487.75	8.78E-09	1.9YrCancerDerived_Inh	8.78E-09
559	ALL	559311.56	4242987.75	8.76E-09	1.9YrCancerDerived_Inh	8.76E-09
1096	ALL	559211.56	4243227.75	8.75E-09	1.9YrCancerDerived_Inh	8.75E-09

739	ALL	559271.56	4243067.75	8.73E-09	1.9YrCancerDerived_Inh	8.73E-09
2099	ALL	559731.56	4243667.75	8.73E-09	1.9YrCancerDerived_Inh	8.73E-09
2005	ALL	559751.56	4243627.75	8.73E-09	1.9YrCancerDerived_Inh	8.73E-09
1139	ALL	559211.56	4243247.75	8.70E-09	1.9YrCancerDerived_Inh	8.70E-09
1838	ALL	559291.56	4243567.75	8.69E-09	1.9YrCancerDerived_Inh	8.69E-09
521	ALL	559551.56	4242967.75	8.68E-09	1.9YrCancerDerived_Inh	8.68E-09
1910	ALL	559771.56	4243587.75	8.65E-09	1.9YrCancerDerived_Inh	8.65E-09
2194	ALL	559711.56	4243707.75	8.63E-09	1.9YrCancerDerived_Inh	8.63E-09
1051	ALL	559211.56	4243207.75	8.62E-09	1.9YrCancerDerived_Inh	8.62E-09
2030	ALL	559311.56	4243647.75	8.61E-09	1.9YrCancerDerived_Inh	8.61E-09
1188	ALL	559711.56	4243267.75	8.58E-09	1.9YrCancerDerived_Inh	8.58E-09
386	ALL	559491.56	4242907.75	8.54E-09	1.9YrCancerDerived_Inh	8.54E-09
1447	ALL	559771.56	4243387.75	8.51E-09	1.9YrCancerDerived_Inh	8.51E-09
1178	ALL	559211.56	4243267.75	8.51E-09	1.9YrCancerDerived_Inh	8.51E-09
752	ALL	559611.56	4243067.75	8.47E-09	1.9YrCancerDerived_Inh	8.47E-09
1678	ALL	559791.56	4243487.75	8.45E-09	1.9YrCancerDerived_Inh	8.45E-09
1724	ALL	559791.56	4243507.75	8.45E-09	1.9YrCancerDerived_Inh	8.45E-09
425	ALL	559351.56	4242927.75	8.45E-09	1.9YrCancerDerived_Inh	8.45E-09
659	ALL	559591.56	4243027.75	8.41E-09	1.9YrCancerDerived_Inh	8.41E-09
1770	ALL	559791.56	4243527.75	8.38E-09	1.9YrCancerDerived_Inh	8.38E-09
1006	ALL	559211.56	4243187.75	8.37E-09	1.9YrCancerDerived_Inh	8.37E-09
1632	ALL	559791.56	4243467.75	8.37E-09	1.9YrCancerDerived_Inh	8.37E-09
843	ALL	559631.56	4243107.75	8.36E-09	1.9YrCancerDerived_Inh	8.36E-09
469	ALL	559331.56	4242947.75	8.35E-09	1.9YrCancerDerived_Inh	8.35E-09
873	ALL	559231.56	4243127.75	8.34E-09	1.9YrCancerDerived_Inh	8.34E-09
2052	ALL	559751.56	4243647.75	8.34E-09	1.9YrCancerDerived_Inh	8.34E-09
2147	ALL	559731.56	4243687.75	8.32E-09	1.9YrCancerDerived_Inh	8.32E-09
2223	ALL	559331.56	4243727.75	8.32E-09	1.9YrCancerDerived_Inh	8.32E-09
1958	ALL	559771.56	4243607.75	8.31E-09	1.9YrCancerDerived_Inh	8.31E-09
1886	ALL	559291.56	4243587.75	8.31E-09	1.9YrCancerDerived_Inh	8.31E-09
338	ALL	559431.56	4242887.75	8.30E-09	1.9YrCancerDerived_Inh	8.30E-09
380	ALL	559371.56	4242907.75	8.29E-09	1.9YrCancerDerived_Inh	8.29E-09
1213	ALL	559211.56	4243287.75	8.26E-09	1.9YrCancerDerived_Inh	8.26E-09
2242	ALL	559711.56	4243727.75	8.26E-09	1.9YrCancerDerived_Inh	8.26E-09
1113	ALL	559691.56	4243227.75	8.24E-09	1.9YrCancerDerived_Inh	8.24E-09
339	ALL	559451.56	4242887.75	8.24E-09	1.9YrCancerDerived_Inh	8.24E-09
1815	ALL	559791.56	4243547.75	8.23E-09	1.9YrCancerDerived_Inh	8.23E-09
567	ALL	559571.56	4242987.75	8.20E-09	1.9YrCancerDerived_Inh	8.20E-09
1586	ALL	559791.56	4243447.75	8.20E-09	1.9YrCancerDerived_Inh	8.20E-09
2078	ALL	559311.56	4243667.75	8.19E-09	1.9YrCancerDerived_Inh	8.19E-09
337	ALL	559411.56	4242887.75	8.18E-09	1.9YrCancerDerived_Inh	8.18E-09
934	ALL	559651.56	4243147.75	8.17E-09	1.9YrCancerDerived_Inh	8.17E-09
1313	ALL	559751.56	4243327.75	8.12E-09	1.9YrCancerDerived_Inh	8.12E-09
603	ALL	559291.56	4243007.75	8.10E-09	1.9YrCancerDerived_Inh	8.10E-09
962	ALL	559211.56	4243167.75	8.09E-09	1.9YrCancerDerived_Inh	8.09E-09
1698	ALL	559271.56	4243507.75	8.09E-09	1.9YrCancerDerived_Inh	8.09E-09
1024	ALL	559671.56	4243187.75	8.08E-09	1.9YrCancerDerived_Inh	8.08E-09
1863	ALL	559791.56	4243567.75	8.03E-09	1.9YrCancerDerived_Inh	8.03E-09
340	ALL	559471.56	4242887.75	8.00E-09	1.9YrCancerDerived_Inh	8.00E-09
513	ALL	559311.56	4242967.75	7.99E-09	1.9YrCancerDerived_Inh	7.99E-09
693	ALL	559271.56	4243047.75	7.99E-09	1.9YrCancerDerived_Inh	7.99E-09
1402	ALL	559771.56	4243367.75	7.99E-09	1.9YrCancerDerived_Inh	7.99E-09
2100	ALL	559751.56	4243667.75	7.98E-09	1.9YrCancerDerived_Inh	7.98E-09
2006	ALL	559771.56	4243627.75	7.96E-09	1.9YrCancerDerived_Inh	7.96E-09
1228	ALL	559731.56	4243287.75	7.96E-09	1.9YrCancerDerived_Inh	7.96E-09
1540	ALL	559791.56	4243427.75	7.94E-09	1.9YrCancerDerived_Inh	7.94E-09
784	ALL	559251.56	4243087.75	7.93E-09	1.9YrCancerDerived_Inh	7.93E-09
1605	ALL	559251.56	4243467.75	7.91E-09	1.9YrCancerDerived_Inh	7.91E-09
1252	ALL	559211.56	4243307.75	7.91E-09	1.9YrCancerDerived_Inh	7.91E-09
336	ALL	559391.56	4242887.75	7.91E-09	1.9YrCancerDerived_Inh	7.91E-09
2195	ALL	559731.56	4243707.75	7.88E-09	1.9YrCancerDerived_Inh	7.88E-09
1934	ALL	559291.56	4243607.75	7.81E-09	1.9YrCancerDerived_Inh	7.81E-09
1911	ALL	559791.56	4243587.75	7.80E-09	1.9YrCancerDerived_Inh	7.80E-09
2126	ALL	559311.56	4243687.75	7.78E-09	1.9YrCancerDerived_Inh	7.78E-09
706	ALL	559611.56	4243047.75	7.70E-09	1.9YrCancerDerived_Inh	7.70E-09
917	ALL	559211.56	4243147.75	7.69E-09	1.9YrCancerDerived_Inh	7.69E-09
379	ALL	559351.56	4242907.75	7.65E-09	1.9YrCancerDerived_Inh	7.65E-09
613	ALL	559591.56	4243007.75	7.65E-09	1.9YrCancerDerived_Inh	7.65E-09
1153	ALL	559711.56	4243247.75	7.65E-09	1.9YrCancerDerived_Inh	7.65E-09
2053	ALL	559771.56	4243647.75	7.62E-09	1.9YrCancerDerived_Inh	7.62E-09
798	ALL	559631.56	4243087.75	7.61E-09	1.9YrCancerDerived_Inh	7.61E-09
424	ALL	559331.56	4242927.75	7.61E-09	1.9YrCancerDerived_Inh	7.61E-09
2148	ALL	559751.56	4243687.75	7.61E-09	1.9YrCancerDerived_Inh	7.61E-09
1744	ALL	559271.56	4243527.75	7.61E-09	1.9YrCancerDerived_Inh	7.61E-09

341	ALL	559491.56	4242887.75	7.60E-09	1.9YrCancerDerived_Inh	7.60E-09
1494	ALL	559791.56	4243407.75	7.60E-09	1.9YrCancerDerived_Inh	7.60E-09
2243	ALL	559731.56	4243727.75	7.55E-09	1.9YrCancerDerived_Inh	7.55E-09
1959	ALL	559791.56	4243607.75	7.54E-09	1.9YrCancerDerived_Inh	7.54E-09
1604	ALL	559231.56	4243467.75	7.50E-09	1.9YrCancerDerived_Inh	7.50E-09
828	ALL	559231.56	4243107.75	7.49E-09	1.9YrCancerDerived_Inh	7.49E-09
335	ALL	559371.56	4242887.75	7.49E-09	1.9YrCancerDerived_Inh	7.49E-09
1293	ALL	559211.56	4243327.75	7.48E-09	1.9YrCancerDerived_Inh	7.48E-09
522	ALL	559571.56	4242967.75	7.45E-09	1.9YrCancerDerived_Inh	7.45E-09
889	ALL	559651.56	4243127.75	7.44E-09	1.9YrCancerDerived_Inh	7.44E-09
558	ALL	559291.56	4242987.75	7.43E-09	1.9YrCancerDerived_Inh	7.43E-09
1725	ALL	559811.56	4243507.75	7.42E-09	1.9YrCancerDerived_Inh	7.42E-09
293	ALL	559431.56	4242867.75	7.42E-09	1.9YrCancerDerived_Inh	7.42E-09
1358	ALL	559771.56	4243347.75	7.41E-09	1.9YrCancerDerived_Inh	7.41E-09
1771	ALL	559811.56	4243527.75	7.41E-09	1.9YrCancerDerived_Inh	7.41E-09
1070	ALL	559691.56	4243207.75	7.39E-09	1.9YrCancerDerived_Inh	7.39E-09
2174	ALL	559311.56	4243707.75	7.39E-09	1.9YrCancerDerived_Inh	7.39E-09
1270	ALL	559751.56	4243307.75	7.38E-09	1.9YrCancerDerived_Inh	7.38E-09
647	ALL	559271.56	4243027.75	7.37E-09	1.9YrCancerDerived_Inh	7.37E-09
1679	ALL	559811.56	4243487.75	7.37E-09	1.9YrCancerDerived_Inh	7.37E-09
1982	ALL	559291.56	4243627.75	7.37E-09	1.9YrCancerDerived_Inh	7.37E-09
294	ALL	559451.56	4242867.75	7.36E-09	1.9YrCancerDerived_Inh	7.36E-09
468	ALL	559311.56	4242947.75	7.34E-09	1.9YrCancerDerived_Inh	7.34E-09
292	ALL	559411.56	4242867.75	7.33E-09	1.9YrCancerDerived_Inh	7.33E-09
1816	ALL	559811.56	4243547.75	7.33E-09	1.9YrCancerDerived_Inh	7.33E-09
979	ALL	559671.56	4243167.75	7.32E-09	1.9YrCancerDerived_Inh	7.32E-09
2101	ALL	559771.56	4243667.75	7.30E-09	1.9YrCancerDerived_Inh	7.30E-09
2007	ALL	559791.56	4243627.75	7.27E-09	1.9YrCancerDerived_Inh	7.27E-09
2196	ALL	559751.56	4243707.75	7.25E-09	1.9YrCancerDerived_Inh	7.25E-09
1633	ALL	559811.56	4243467.75	7.25E-09	1.9YrCancerDerived_Inh	7.25E-09
738	ALL	559251.56	4243067.75	7.24E-09	1.9YrCancerDerived_Inh	7.24E-09
1789	ALL	559271.56	4243547.75	7.23E-09	1.9YrCancerDerived_Inh	7.23E-09
1864	ALL	559811.56	4243567.75	7.21E-09	1.9YrCancerDerived_Inh	7.21E-09
1448	ALL	559791.56	4243387.75	7.20E-09	1.9YrCancerDerived_Inh	7.20E-09
1095	ALL	559191.56	4243227.75	7.18E-09	1.9YrCancerDerived_Inh	7.18E-09
1651	ALL	559251.56	4243487.75	7.17E-09	1.9YrCancerDerived_Inh	7.17E-09
295	ALL	559471.56	4242867.75	7.16E-09	1.9YrCancerDerived_Inh	7.16E-09
1336	ALL	559211.56	4243347.75	7.15E-09	1.9YrCancerDerived_Inh	7.15E-09
1138	ALL	559191.56	4243247.75	7.14E-09	1.9YrCancerDerived_Inh	7.14E-09
1189	ALL	559731.56	4243267.75	7.14E-09	1.9YrCancerDerived_Inh	7.14E-09
291	ALL	559391.56	4242867.75	7.12E-09	1.9YrCancerDerived_Inh	7.12E-09
872	ALL	559211.56	4243127.75	7.11E-09	1.9YrCancerDerived_Inh	7.11E-09
1050	ALL	559191.56	4243207.75	7.11E-09	1.9YrCancerDerived_Inh	7.11E-09
1587	ALL	559811.56	4243447.75	7.06E-09	1.9YrCancerDerived_Inh	7.06E-09
1912	ALL	559811.56	4243587.75	7.04E-09	1.9YrCancerDerived_Inh	7.04E-09
660	ALL	559611.56	4243027.75	7.04E-09	1.9YrCancerDerived_Inh	7.04E-09
2222	ALL	559311.56	4243727.75	7.03E-09	1.9YrCancerDerived_Inh	7.03E-09
2029	ALL	559291.56	4243647.75	7.00E-09	1.9YrCancerDerived_Inh	7.00E-09
1177	ALL	559191.56	4243267.75	7.00E-09	1.9YrCancerDerived_Inh	7.00E-09
2149	ALL	559771.56	4243687.75	7.00E-09	1.9YrCancerDerived_Inh	7.00E-09
2054	ALL	559791.56	4243647.75	6.99E-09	1.9YrCancerDerived_Inh	6.99E-09
568	ALL	559591.56	4242987.75	6.98E-09	1.9YrCancerDerived_Inh	6.98E-09
753	ALL	559631.56	4243067.75	6.97E-09	1.9YrCancerDerived_Inh	6.97E-09
378	ALL	559331.56	4242907.75	6.97E-09	1.9YrCancerDerived_Inh	6.97E-09
334	ALL	559351.56	4242887.75	6.96E-09	1.9YrCancerDerived_Inh	6.96E-09
1005	ALL	559191.56	4243187.75	6.96E-09	1.9YrCancerDerived_Inh	6.96E-09
1837	ALL	559271.56	4243567.75	6.96E-09	1.9YrCancerDerived_Inh	6.96E-09
2244	ALL	559751.56	4243727.75	6.95E-09	1.9YrCancerDerived_Inh	6.95E-09
512	ALL	559291.56	4242967.75	6.85E-09	1.9YrCancerDerived_Inh	6.85E-09
1114	ALL	559711.56	4243227.75	6.85E-09	1.9YrCancerDerived_Inh	6.85E-09
1960	ALL	559811.56	4243607.75	6.85E-09	1.9YrCancerDerived_Inh	6.85E-09
296	ALL	559491.56	4242867.75	6.83E-09	1.9YrCancerDerived_Inh	6.83E-09
1212	ALL	559191.56	4243287.75	6.83E-09	1.9YrCancerDerived_Inh	6.83E-09
602	ALL	559271.56	4243007.75	6.82E-09	1.9YrCancerDerived_Inh	6.82E-09
1314	ALL	559771.56	4243327.75	6.82E-09	1.9YrCancerDerived_Inh	6.82E-09
1541	ALL	559811.56	4243427.75	6.81E-09	1.9YrCancerDerived_Inh	6.81E-09
844	ALL	559651.56	4243107.75	6.81E-09	1.9YrCancerDerived_Inh	6.81E-09
476	ALL	559571.56	4242947.75	6.79E-09	1.9YrCancerDerived_Inh	6.79E-09
290	ALL	559371.56	4242867.75	6.79E-09	1.9YrCancerDerived_Inh	6.79E-09
961	ALL	559191.56	4243167.75	6.79E-09	1.9YrCancerDerived_Inh	6.79E-09
423	ALL	559311.56	4242927.75	6.77E-09	1.9YrCancerDerived_Inh	6.77E-09
1403	ALL	559791.56	4243367.75	6.76E-09	1.9YrCancerDerived_Inh	6.76E-09
783	ALL	559231.56	4243087.75	6.74E-09	1.9YrCancerDerived_Inh	6.74E-09
2102	ALL	559791.56	4243667.75	6.72E-09	1.9YrCancerDerived_Inh	6.72E-09

2197	ALL	559771.56	4243707.75	6.70E-09	1.9YrCancerDerived_Inh	6.70E-09
2077	ALL	559291.56	4243667.75	6.70E-09	1.9YrCancerDerived_Inh	6.70E-09
248	ALL	559431.56	4242847.75	6.68E-09	1.9YrCancerDerived_Inh	6.68E-09
692	ALL	559251.56	4243047.75	6.68E-09	1.9YrCancerDerived_Inh	6.68E-09
1025	ALL	559691.56	4243187.75	6.68E-09	1.9YrCancerDerived_Inh	6.68E-09
935	ALL	559671.56	4243147.75	6.67E-09	1.9YrCancerDerived_Inh	6.67E-09
1229	ALL	559751.56	4243287.75	6.67E-09	1.9YrCancerDerived_Inh	6.67E-09
2008	ALL	559811.56	4243627.75	6.64E-09	1.9YrCancerDerived_Inh	6.64E-09
249	ALL	559451.56	4242847.75	6.63E-09	1.9YrCancerDerived_Inh	6.63E-09
247	ALL	559411.56	4242847.75	6.62E-09	1.9YrCancerDerived_Inh	6.62E-09
1885	ALL	559271.56	4243587.75	6.61E-09	1.9YrCancerDerived_Inh	6.61E-09
1697	ALL	559251.56	4243507.75	6.59E-09	1.9YrCancerDerived_Inh	6.59E-09
1772	ALL	559831.56	4243527.75	6.57E-09	1.9YrCancerDerived_Inh	6.57E-09
1817	ALL	559831.56	4243547.75	6.54E-09	1.9YrCancerDerived_Inh	6.54E-09
1251	ALL	559191.56	4243307.75	6.54E-09	1.9YrCancerDerived_Inh	6.54E-09
1726	ALL	559831.56	4243507.75	6.54E-09	1.9YrCancerDerived_Inh	6.54E-09
916	ALL	559191.56	4243147.75	6.51E-09	1.9YrCancerDerived_Inh	6.51E-09
1495	ALL	559811.56	4243407.75	6.51E-09	1.9YrCancerDerived_Inh	6.51E-09
1865	ALL	559831.56	4243567.75	6.47E-09	1.9YrCancerDerived_Inh	6.47E-09
614	ALL	559611.56	4243007.75	6.46E-09	1.9YrCancerDerived_Inh	6.46E-09
250	ALL	559471.56	4242847.75	6.46E-09	1.9YrCancerDerived_Inh	6.46E-09
827	ALL	559211.56	4243107.75	6.46E-09	1.9YrCancerDerived_Inh	6.46E-09
1680	ALL	559831.56	4243487.75	6.46E-09	1.9YrCancerDerived_Inh	6.46E-09
246	ALL	559391.56	4242847.75	6.45E-09	1.9YrCancerDerived_Inh	6.45E-09
2150	ALL	559791.56	4243687.75	6.45E-09	1.9YrCancerDerived_Inh	6.45E-09
2125	ALL	559291.56	4243687.75	6.43E-09	1.9YrCancerDerived_Inh	6.43E-09
2245	ALL	559771.56	4243727.75	6.42E-09	1.9YrCancerDerived_Inh	6.42E-09
2055	ALL	559811.56	4243647.75	6.41E-09	1.9YrCancerDerived_Inh	6.41E-09
1154	ALL	559731.56	4243247.75	6.41E-09	1.9YrCancerDerived_Inh	6.41E-09
523	ALL	559591.56	4242967.75	6.41E-09	1.9YrCancerDerived_Inh	6.41E-09
707	ALL	559631.56	4243047.75	6.41E-09	1.9YrCancerDerived_Inh	6.41E-09
297	ALL	559511.56	4242867.75	6.40E-09	1.9YrCancerDerived_Inh	6.40E-09
333	ALL	559331.56	4242887.75	6.39E-09	1.9YrCancerDerived_Inh	6.39E-09
289	ALL	559351.56	4242867.75	6.36E-09	1.9YrCancerDerived_Inh	6.36E-09
1913	ALL	559831.56	4243587.75	6.36E-09	1.9YrCancerDerived_Inh	6.36E-09
467	ALL	559291.56	4242947.75	6.35E-09	1.9YrCancerDerived_Inh	6.35E-09
1634	ALL	559831.56	4243467.75	6.32E-09	1.9YrCancerDerived_Inh	6.32E-09
1650	ALL	559231.56	4243487.75	6.29E-09	1.9YrCancerDerived_Inh	6.29E-09
557	ALL	559271.56	4242987.75	6.29E-09	1.9YrCancerDerived_Inh	6.29E-09
1359	ALL	559791.56	4243347.75	6.28E-09	1.9YrCancerDerived_Inh	6.28E-09
1933	ALL	559271.56	4243607.75	6.28E-09	1.9YrCancerDerived_Inh	6.28E-09
799	ALL	559651.56	4243087.75	6.26E-09	1.9YrCancerDerived_Inh	6.26E-09
1961	ALL	559831.56	4243607.75	6.22E-09	1.9YrCancerDerived_Inh	6.22E-09
1271	ALL	559771.56	4243307.75	6.22E-09	1.9YrCancerDerived_Inh	6.22E-09
377	ALL	559311.56	4242907.75	6.22E-09	1.9YrCancerDerived_Inh	6.22E-09
1292	ALL	559191.56	4243327.75	6.20E-09	1.9YrCancerDerived_Inh	6.20E-09
2198	ALL	559791.56	4243707.75	6.19E-09	1.9YrCancerDerived_Inh	6.19E-09
245	ALL	559371.56	4242847.75	6.19E-09	1.9YrCancerDerived_Inh	6.19E-09
251	ALL	559491.56	4242847.75	6.19E-09	1.9YrCancerDerived_Inh	6.19E-09
2103	ALL	559811.56	4243667.75	6.18E-09	1.9YrCancerDerived_Inh	6.18E-09
1071	ALL	559711.56	4243207.75	6.18E-09	1.9YrCancerDerived_Inh	6.18E-09
646	ALL	559251.56	4243027.75	6.16E-09	1.9YrCancerDerived_Inh	6.16E-09
2173	ALL	559291.56	4243707.75	6.16E-09	1.9YrCancerDerived_Inh	6.16E-09
1449	ALL	559811.56	4243387.75	6.16E-09	1.9YrCancerDerived_Inh	6.16E-09
737	ALL	559231.56	4243067.75	6.16E-09	1.9YrCancerDerived_Inh	6.16E-09
1743	ALL	559251.56	4243527.75	6.15E-09	1.9YrCancerDerived_Inh	6.15E-09
1588	ALL	559831.56	4243447.75	6.12E-09	1.9YrCancerDerived_Inh	6.12E-09
890	ALL	559671.56	4243127.75	6.12E-09	1.9YrCancerDerived_Inh	6.12E-09
871	ALL	559191.56	4243127.75	6.12E-09	1.9YrCancerDerived_Inh	6.12E-09
980	ALL	559691.56	4243167.75	6.07E-09	1.9YrCancerDerived_Inh	6.07E-09
2009	ALL	559831.56	4243627.75	6.06E-09	1.9YrCancerDerived_Inh	6.06E-09
203	ALL	559431.56	4242827.75	6.06E-09	1.9YrCancerDerived_Inh	6.06E-09
202	ALL	559411.56	4242827.75	6.02E-09	1.9YrCancerDerived_Inh	6.02E-09
1190	ALL	559751.56	4243267.75	6.02E-09	1.9YrCancerDerived_Inh	6.02E-09
204	ALL	559451.56	4242827.75	6.01E-09	1.9YrCancerDerived_Inh	6.01E-09
1094	ALL	559171.56	4243227.75	6.00E-09	1.9YrCancerDerived_Inh	6.00E-09
1049	ALL	559171.56	4243207.75	5.97E-09	1.9YrCancerDerived_Inh	5.97E-09
1137	ALL	559171.56	4243247.75	5.97E-09	1.9YrCancerDerived_Inh	5.97E-09
569	ALL	559611.56	4242987.75	5.96E-09	1.9YrCancerDerived_Inh	5.96E-09
2151	ALL	559811.56	4243687.75	5.95E-09	1.9YrCancerDerived_Inh	5.95E-09
1981	ALL	559271.56	4243627.75	5.94E-09	1.9YrCancerDerived_Inh	5.94E-09
2246	ALL	559791.56	4243727.75	5.94E-09	1.9YrCancerDerived_Inh	5.94E-09
661	ALL	559631.56	4243027.75	5.91E-09	1.9YrCancerDerived_Inh	5.91E-09
477	ALL	559591.56	4242947.75	5.90E-09	1.9YrCancerDerived_Inh	5.90E-09

1004	ALL	559171.56	4243187.75	5.89E-09	1.9YrCancerDerived_Inh	5.89E-09
2221	ALL	559291.56	4243727.75	5.89E-09	1.9YrCancerDerived_Inh	5.89E-09
422	ALL	559291.56	4242927.75	5.89E-09	1.9YrCancerDerived_Inh	5.89E-09
1542	ALL	559831.56	4243427.75	5.89E-09	1.9YrCancerDerived_Inh	5.89E-09
1335	ALL	559191.56	4243347.75	5.89E-09	1.9YrCancerDerived_Inh	5.89E-09
201	ALL	559391.56	4242827.75	5.89E-09	1.9YrCancerDerived_Inh	5.89E-09
2056	ALL	559831.56	4243647.75	5.89E-09	1.9YrCancerDerived_Inh	5.89E-09
288	ALL	559331.56	4242867.75	5.87E-09	1.9YrCancerDerived_Inh	5.87E-09
1176	ALL	559171.56	4243267.75	5.86E-09	1.9YrCancerDerived_Inh	5.86E-09
205	ALL	559471.56	4242827.75	5.86E-09	1.9YrCancerDerived_Inh	5.86E-09
511	ALL	559271.56	4242967.75	5.86E-09	1.9YrCancerDerived_Inh	5.86E-09
1818	ALL	559851.56	4243547.75	5.85E-09	1.9YrCancerDerived_Inh	5.85E-09
782	ALL	559211.56	4243087.75	5.85E-09	1.9YrCancerDerived_Inh	5.85E-09
244	ALL	559351.56	4242847.75	5.84E-09	1.9YrCancerDerived_Inh	5.84E-09
1773	ALL	559851.56	4243527.75	5.83E-09	1.9YrCancerDerived_Inh	5.83E-09
252	ALL	559511.56	4242847.75	5.83E-09	1.9YrCancerDerived_Inh	5.83E-09
1866	ALL	559851.56	4243567.75	5.82E-09	1.9YrCancerDerived_Inh	5.82E-09
1788	ALL	559251.56	4243547.75	5.82E-09	1.9YrCancerDerived_Inh	5.82E-09
1315	ALL	559791.56	4243327.75	5.79E-09	1.9YrCancerDerived_Inh	5.79E-09
754	ALL	559651.56	4243067.75	5.79E-09	1.9YrCancerDerived_Inh	5.79E-09
1115	ALL	559731.56	4243227.75	5.78E-09	1.9YrCancerDerived_Inh	5.78E-09
1404	ALL	559811.56	4243367.75	5.78E-09	1.9YrCancerDerived_Inh	5.78E-09
1727	ALL	559851.56	4243507.75	5.78E-09	1.9YrCancerDerived_Inh	5.78E-09
960	ALL	559171.56	4243167.75	5.77E-09	1.9YrCancerDerived_Inh	5.77E-09
1914	ALL	559851.56	4243587.75	5.76E-09	1.9YrCancerDerived_Inh	5.76E-09
332	ALL	559311.56	4242887.75	5.75E-09	1.9YrCancerDerived_Inh	5.75E-09
601	ALL	559251.56	4243007.75	5.74E-09	1.9YrCancerDerived_Inh	5.74E-09
2028	ALL	559271.56	4243647.75	5.73E-09	1.9YrCancerDerived_Inh	5.73E-09
1211	ALL	559171.56	4243287.75	5.73E-09	1.9YrCancerDerived_Inh	5.73E-09
2199	ALL	559811.56	4243707.75	5.73E-09	1.9YrCancerDerived_Inh	5.73E-09
2104	ALL	559831.56	4243667.75	5.70E-09	1.9YrCancerDerived_Inh	5.70E-09
1681	ALL	559851.56	4243487.75	5.68E-09	1.9YrCancerDerived_Inh	5.68E-09
200	ALL	559371.56	4242827.75	5.67E-09	1.9YrCancerDerived_Inh	5.67E-09
1962	ALL	559851.56	4243607.75	5.66E-09	1.9YrCancerDerived_Inh	5.66E-09
1230	ALL	559771.56	4243287.75	5.66E-09	1.9YrCancerDerived_Inh	5.66E-09
206	ALL	559491.56	4242827.75	5.64E-09	1.9YrCancerDerived_Inh	5.64E-09
845	ALL	559671.56	4243107.75	5.64E-09	1.9YrCancerDerived_Inh	5.64E-09
826	ALL	559191.56	4243107.75	5.63E-09	1.9YrCancerDerived_Inh	5.63E-09
691	ALL	559231.56	4243047.75	5.62E-09	1.9YrCancerDerived_Inh	5.62E-09
1496	ALL	559831.56	4243407.75	5.62E-09	1.9YrCancerDerived_Inh	5.62E-09
1379	ALL	559191.56	4243367.75	5.61E-09	1.9YrCancerDerived_Inh	5.61E-09
1026	ALL	559711.56	4243187.75	5.61E-09	1.9YrCancerDerived_Inh	5.61E-09
1836	ALL	559251.56	4243567.75	5.60E-09	1.9YrCancerDerived_Inh	5.60E-09
915	ALL	559171.56	4243147.75	5.59E-09	1.9YrCancerDerived_Inh	5.59E-09
936	ALL	559691.56	4243147.75	5.56E-09	1.9YrCancerDerived_Inh	5.56E-09
2010	ALL	559851.56	4243627.75	5.54E-09	1.9YrCancerDerived_Inh	5.54E-09
1696	ALL	559231.56	4243507.75	5.54E-09	1.9YrCancerDerived_Inh	5.54E-09
158	ALL	559431.56	4242807.75	5.53E-09	1.9YrCancerDerived_Inh	5.53E-09
1635	ALL	559851.56	4243467.75	5.53E-09	1.9YrCancerDerived_Inh	5.53E-09
524	ALL	559611.56	4242967.75	5.52E-09	1.9YrCancerDerived_Inh	5.52E-09
2247	ALL	559811.56	4243727.75	5.51E-09	1.9YrCancerDerived_Inh	5.51E-09
2152	ALL	559831.56	4243687.75	5.51E-09	1.9YrCancerDerived_Inh	5.51E-09
2076	ALL	559271.56	4243667.75	5.51E-09	1.9YrCancerDerived_Inh	5.51E-09
157	ALL	559411.56	4242807.75	5.51E-09	1.9YrCancerDerived_Inh	5.51E-09
1250	ALL	559171.56	4243307.75	5.50E-09	1.9YrCancerDerived_Inh	5.50E-09
376	ALL	559291.56	4242907.75	5.49E-09	1.9YrCancerDerived_Inh	5.49E-09
159	ALL	559451.56	4242807.75	5.48E-09	1.9YrCancerDerived_Inh	5.48E-09
615	ALL	559631.56	4243007.75	5.48E-09	1.9YrCancerDerived_Inh	5.48E-09
466	ALL	559271.56	4242947.75	5.46E-09	1.9YrCancerDerived_Inh	5.46E-09
432	ALL	559591.56	4242927.75	5.45E-09	1.9YrCancerDerived_Inh	5.45E-09
1155	ALL	559751.56	4243247.75	5.44E-09	1.9YrCancerDerived_Inh	5.44E-09
1649	ALL	559211.56	4243487.75	5.43E-09	1.9YrCancerDerived_Inh	5.43E-09
243	ALL	559331.56	4242847.75	5.42E-09	1.9YrCancerDerived_Inh	5.42E-09
2057	ALL	559851.56	4243647.75	5.41E-09	1.9YrCancerDerived_Inh	5.41E-09
156	ALL	559391.56	4242807.75	5.40E-09	1.9YrCancerDerived_Inh	5.40E-09
1360	ALL	559811.56	4243347.75	5.38E-09	1.9YrCancerDerived_Inh	5.38E-09
199	ALL	559351.56	4242827.75	5.38E-09	1.9YrCancerDerived_Inh	5.38E-09
708	ALL	559651.56	4243047.75	5.37E-09	1.9YrCancerDerived_Inh	5.37E-09
556	ALL	559251.56	4242987.75	5.36E-09	1.9YrCancerDerived_Inh	5.36E-09
160	ALL	559471.56	4242807.75	5.36E-09	1.9YrCancerDerived_Inh	5.36E-09
1589	ALL	559851.56	4243447.75	5.35E-09	1.9YrCancerDerived_Inh	5.35E-09
287	ALL	559311.56	4242867.75	5.34E-09	1.9YrCancerDerived_Inh	5.34E-09
207	ALL	559511.56	4242827.75	5.33E-09	1.9YrCancerDerived_Inh	5.33E-09
2200	ALL	559831.56	4243707.75	5.32E-09	1.9YrCancerDerived_Inh	5.32E-09

736	ALL	559211.56	4243067.75	5.32E-09	1.9YrCancerDerived_Inh	5.32E-09
1272	ALL	559791.56	4243307.75	5.31E-09	1.9YrCancerDerived_Inh	5.31E-09
1450	ALL	559831.56	4243387.75	5.31E-09	1.9YrCancerDerived_Inh	5.31E-09
870	ALL	559171.56	4243127.75	5.31E-09	1.9YrCancerDerived_Inh	5.31E-09
1884	ALL	559251.56	4243587.75	5.30E-09	1.9YrCancerDerived_Inh	5.30E-09
2124	ALL	559271.56	4243687.75	5.27E-09	1.9YrCancerDerived_Inh	5.27E-09
2105	ALL	559851.56	4243667.75	5.26E-09	1.9YrCancerDerived_Inh	5.26E-09
1867	ALL	559871.56	4243567.75	5.24E-09	1.9YrCancerDerived_Inh	5.24E-09
1072	ALL	559731.56	4243207.75	5.24E-09	1.9YrCancerDerived_Inh	5.24E-09
1819	ALL	559871.56	4243547.75	5.24E-09	1.9YrCancerDerived_Inh	5.24E-09
1291	ALL	559171.56	4243327.75	5.24E-09	1.9YrCancerDerived_Inh	5.24E-09
155	ALL	559371.56	4242807.75	5.22E-09	1.9YrCancerDerived_Inh	5.22E-09
800	ALL	559671.56	4243087.75	5.22E-09	1.9YrCancerDerived_Inh	5.22E-09
1915	ALL	559871.56	4243587.75	5.21E-09	1.9YrCancerDerived_Inh	5.21E-09
1774	ALL	559871.56	4243527.75	5.20E-09	1.9YrCancerDerived_Inh	5.20E-09
161	ALL	559491.56	4242807.75	5.16E-09	1.9YrCancerDerived_Inh	5.16E-09
1963	ALL	559871.56	4243607.75	5.15E-09	1.9YrCancerDerived_Inh	5.15E-09
645	ALL	559231.56	4243027.75	5.15E-09	1.9YrCancerDerived_Inh	5.15E-09
1191	ALL	559771.56	4243267.75	5.14E-09	1.9YrCancerDerived_Inh	5.14E-09
331	ALL	559291.56	4242887.75	5.13E-09	1.9YrCancerDerived_Inh	5.13E-09
1543	ALL	559851.56	4243427.75	5.13E-09	1.9YrCancerDerived_Inh	5.13E-09
2248	ALL	559831.56	4243727.75	5.13E-09	1.9YrCancerDerived_Inh	5.13E-09
1728	ALL	559871.56	4243507.75	5.12E-09	1.9YrCancerDerived_Inh	5.12E-09
1048	ALL	559151.56	4243207.75	5.12E-09	1.9YrCancerDerived_Inh	5.12E-09
478	ALL	559611.56	4242947.75	5.12E-09	1.9YrCancerDerived_Inh	5.12E-09
981	ALL	559711.56	4243167.75	5.12E-09	1.9YrCancerDerived_Inh	5.12E-09
421	ALL	559271.56	4242927.75	5.12E-09	1.9YrCancerDerived_Inh	5.12E-09
891	ALL	559691.56	4243127.75	5.12E-09	1.9YrCancerDerived_Inh	5.12E-09
1093	ALL	559151.56	4243227.75	5.11E-09	1.9YrCancerDerived_Inh	5.11E-09
2153	ALL	559851.56	4243687.75	5.10E-09	1.9YrCancerDerived_Inh	5.10E-09
781	ALL	559191.56	4243087.75	5.10E-09	1.9YrCancerDerived_Inh	5.10E-09
2172	ALL	559271.56	4243707.75	5.09E-09	1.9YrCancerDerived_Inh	5.09E-09
570	ALL	559631.56	4242987.75	5.09E-09	1.9YrCancerDerived_Inh	5.09E-09
1742	ALL	559231.56	4243527.75	5.08E-09	1.9YrCancerDerived_Inh	5.08E-09
113	ALL	559431.56	4242787.75	5.08E-09	1.9YrCancerDerived_Inh	5.08E-09
1136	ALL	559151.56	4243247.75	5.07E-09	1.9YrCancerDerived_Inh	5.07E-09
2011	ALL	559871.56	4243627.75	5.07E-09	1.9YrCancerDerived_Inh	5.07E-09
112	ALL	559411.56	4242787.75	5.06E-09	1.9YrCancerDerived_Inh	5.06E-09
1003	ALL	559151.56	4243187.75	5.05E-09	1.9YrCancerDerived_Inh	5.05E-09
387	ALL	559591.56	4242907.75	5.05E-09	1.9YrCancerDerived_Inh	5.05E-09
1932	ALL	559251.56	4243607.75	5.05E-09	1.9YrCancerDerived_Inh	5.05E-09
114	ALL	559451.56	4242787.75	5.03E-09	1.9YrCancerDerived_Inh	5.03E-09
198	ALL	559331.56	4242827.75	5.02E-09	1.9YrCancerDerived_Inh	5.02E-09
1682	ALL	559871.56	4243487.75	5.01E-09	1.9YrCancerDerived_Inh	5.01E-09
510	ALL	559251.56	4242967.75	5.01E-09	1.9YrCancerDerived_Inh	5.01E-09
1175	ALL	559151.56	4243267.75	5.00E-09	1.9YrCancerDerived_Inh	5.00E-09
662	ALL	559651.56	4243027.75	5.00E-09	1.9YrCancerDerived_Inh	5.00E-09
1405	ALL	559831.56	4243367.75	4.99E-09	1.9YrCancerDerived_Inh	4.99E-09
242	ALL	559311.56	4242847.75	4.98E-09	1.9YrCancerDerived_Inh	4.98E-09
208	ALL	559531.56	4242827.75	4.98E-09	1.9YrCancerDerived_Inh	4.98E-09
111	ALL	559391.56	4242787.75	4.98E-09	1.9YrCancerDerived_Inh	4.98E-09
1316	ALL	559811.56	4243327.75	4.98E-09	1.9YrCancerDerived_Inh	4.98E-09
2058	ALL	559871.56	4243647.75	4.97E-09	1.9YrCancerDerived_Inh	4.97E-09
154	ALL	559351.56	4242807.75	4.97E-09	1.9YrCancerDerived_Inh	4.97E-09
959	ALL	559151.56	4243167.75	4.96E-09	1.9YrCancerDerived_Inh	4.96E-09
1334	ALL	559171.56	4243347.75	4.96E-09	1.9YrCancerDerived_Inh	4.96E-09
2201	ALL	559851.56	4243707.75	4.94E-09	1.9YrCancerDerived_Inh	4.94E-09
1116	ALL	559751.56	4243227.75	4.94E-09	1.9YrCancerDerived_Inh	4.94E-09
825	ALL	559171.56	4243107.75	4.92E-09	1.9YrCancerDerived_Inh	4.92E-09
115	ALL	559471.56	4242787.75	4.92E-09	1.9YrCancerDerived_Inh	4.92E-09
2220	ALL	559271.56	4243727.75	4.91E-09	1.9YrCancerDerived_Inh	4.91E-09
162	ALL	559511.56	4242807.75	4.90E-09	1.9YrCancerDerived_Inh	4.90E-09
1497	ALL	559851.56	4243407.75	4.89E-09	1.9YrCancerDerived_Inh	4.89E-09
1636	ALL	559871.56	4243467.75	4.87E-09	1.9YrCancerDerived_Inh	4.87E-09
690	ALL	559211.56	4243047.75	4.87E-09	1.9YrCancerDerived_Inh	4.87E-09
755	ALL	559671.56	4243067.75	4.86E-09	1.9YrCancerDerived_Inh	4.86E-09
1210	ALL	559151.56	4243287.75	4.86E-09	1.9YrCancerDerived_Inh	4.86E-09
1231	ALL	559791.56	4243287.75	4.86E-09	1.9YrCancerDerived_Inh	4.86E-09
914	ALL	559151.56	4243147.75	4.85E-09	1.9YrCancerDerived_Inh	4.85E-09
2106	ALL	559871.56	4243667.75	4.85E-09	1.9YrCancerDerived_Inh	4.85E-09
600	ALL	559231.56	4243007.75	4.85E-09	1.9YrCancerDerived_Inh	4.85E-09
1980	ALL	559251.56	4243627.75	4.83E-09	1.9YrCancerDerived_Inh	4.83E-09
110	ALL	559371.56	4242787.75	4.83E-09	1.9YrCancerDerived_Inh	4.83E-09
375	ALL	559271.56	4242907.75	4.82E-09	1.9YrCancerDerived_Inh	4.82E-09

286	ALL	559291.56	4242867.75	4.82E-09	1.9YrCancerDerived_Inh	4.82E-09
1787	ALL	559231.56	4243547.75	4.79E-09	1.9YrCancerDerived_Inh	4.79E-09
2249	ALL	559851.56	4243727.75	4.78E-09	1.9YrCancerDerived_Inh	4.78E-09
1027	ALL	559731.56	4243187.75	4.78E-09	1.9YrCancerDerived_Inh	4.78E-09
433	ALL	559611.56	4242927.75	4.77E-09	1.9YrCancerDerived_Inh	4.77E-09
525	ALL	559631.56	4242967.75	4.75E-09	1.9YrCancerDerived_Inh	4.75E-09
116	ALL	559491.56	4242787.75	4.74E-09	1.9YrCancerDerived_Inh	4.74E-09
846	ALL	559691.56	4243107.75	4.74E-09	1.9YrCancerDerived_Inh	4.74E-09
1868	ALL	559891.56	4243567.75	4.73E-09	1.9YrCancerDerived_Inh	4.73E-09
2154	ALL	559871.56	4243687.75	4.73E-09	1.9YrCancerDerived_Inh	4.73E-09
1916	ALL	559891.56	4243587.75	4.73E-09	1.9YrCancerDerived_Inh	4.73E-09
465	ALL	559251.56	4242947.75	4.71E-09	1.9YrCancerDerived_Inh	4.71E-09
937	ALL	559711.56	4243147.75	4.71E-09	1.9YrCancerDerived_Inh	4.71E-09
1820	ALL	559891.56	4243547.75	4.70E-09	1.9YrCancerDerived_Inh	4.70E-09
1590	ALL	559871.56	4243447.75	4.70E-09	1.9YrCancerDerived_Inh	4.70E-09
1964	ALL	559891.56	4243607.75	4.70E-09	1.9YrCancerDerived_Inh	4.70E-09
1378	ALL	559171.56	4243367.75	4.69E-09	1.9YrCancerDerived_Inh	4.69E-09
2027	ALL	559251.56	4243647.75	4.69E-09	1.9YrCancerDerived_Inh	4.69E-09
1249	ALL	559151.56	4243307.75	4.69E-09	1.9YrCancerDerived_Inh	4.69E-09
68	ALL	559431.56	4242767.75	4.68E-09	1.9YrCancerDerived_Inh	4.68E-09
1156	ALL	559771.56	4243247.75	4.68E-09	1.9YrCancerDerived_Inh	4.68E-09
67	ALL	559411.56	4242767.75	4.68E-09	1.9YrCancerDerived_Inh	4.68E-09
153	ALL	559331.56	4242807.75	4.67E-09	1.9YrCancerDerived_Inh	4.67E-09
1695	ALL	559211.56	4243507.75	4.67E-09	1.9YrCancerDerived_Inh	4.67E-09
616	ALL	559651.56	4243007.75	4.67E-09	1.9YrCancerDerived_Inh	4.67E-09
1361	ALL	559831.56	4243347.75	4.66E-09	1.9YrCancerDerived_Inh	4.66E-09
1775	ALL	559891.56	4243527.75	4.65E-09	1.9YrCancerDerived_Inh	4.65E-09
197	ALL	559311.56	4242827.75	4.65E-09	1.9YrCancerDerived_Inh	4.65E-09
2012	ALL	559891.56	4243627.75	4.64E-09	1.9YrCancerDerived_Inh	4.64E-09
69	ALL	559451.56	4242767.75	4.64E-09	1.9YrCancerDerived_Inh	4.64E-09
869	ALL	559151.56	4243127.75	4.63E-09	1.9YrCancerDerived_Inh	4.63E-09
735	ALL	559191.56	4243067.75	4.63E-09	1.9YrCancerDerived_Inh	4.63E-09
1451	ALL	559851.56	4243387.75	4.62E-09	1.9YrCancerDerived_Inh	4.62E-09
109	ALL	559351.56	4242787.75	4.62E-09	1.9YrCancerDerived_Inh	4.62E-09
66	ALL	559391.56	4242767.75	4.60E-09	1.9YrCancerDerived_Inh	4.60E-09
163	ALL	559531.56	4242807.75	4.60E-09	1.9YrCancerDerived_Inh	4.60E-09
2202	ALL	559871.56	4243707.75	4.59E-09	1.9YrCancerDerived_Inh	4.59E-09
1273	ALL	559811.56	4243307.75	4.58E-09	1.9YrCancerDerived_Inh	4.58E-09
555	ALL	559231.56	4242987.75	4.57E-09	1.9YrCancerDerived_Inh	4.57E-09
2059	ALL	559891.56	4243647.75	4.57E-09	1.9YrCancerDerived_Inh	4.57E-09
1729	ALL	559891.56	4243507.75	4.56E-09	1.9YrCancerDerived_Inh	4.56E-09
330	ALL	559271.56	4242887.75	4.55E-09	1.9YrCancerDerived_Inh	4.55E-09
1835	ALL	559231.56	4243567.75	4.55E-09	1.9YrCancerDerived_Inh	4.55E-09
709	ALL	559671.56	4243047.75	4.54E-09	1.9YrCancerDerived_Inh	4.54E-09
70	ALL	559471.56	4242767.75	4.53E-09	1.9YrCancerDerived_Inh	4.53E-09
241	ALL	559291.56	4242847.75	4.53E-09	1.9YrCancerDerived_Inh	4.53E-09
2075	ALL	559251.56	4243667.75	4.53E-09	1.9YrCancerDerived_Inh	4.53E-09
117	ALL	559511.56	4242787.75	4.52E-09	1.9YrCancerDerived_Inh	4.52E-09
780	ALL	559171.56	4243087.75	4.52E-09	1.9YrCancerDerived_Inh	4.52E-09
1544	ALL	559871.56	4243427.75	4.50E-09	1.9YrCancerDerived_Inh	4.50E-09
1073	ALL	559751.56	4243207.75	4.50E-09	1.9YrCancerDerived_Inh	4.50E-09
1290	ALL	559151.56	4243327.75	4.50E-09	1.9YrCancerDerived_Inh	4.50E-09
2107	ALL	559891.56	4243667.75	4.48E-09	1.9YrCancerDerived_Inh	4.48E-09
1422	ALL	559171.56	4243387.75	4.48E-09	1.9YrCancerDerived_Inh	4.48E-09
65	ALL	559371.56	4242767.75	4.48E-09	1.9YrCancerDerived_Inh	4.48E-09
644	ALL	559211.56	4243027.75	4.46E-09	1.9YrCancerDerived_Inh	4.46E-09
2250	ALL	559871.56	4243727.75	4.46E-09	1.9YrCancerDerived_Inh	4.46E-09
388	ALL	559611.56	4242907.75	4.45E-09	1.9YrCancerDerived_Inh	4.45E-09
1683	ALL	559891.56	4243487.75	4.45E-09	1.9YrCancerDerived_Inh	4.45E-09
479	ALL	559631.56	4242947.75	4.45E-09	1.9YrCancerDerived_Inh	4.45E-09
420	ALL	559251.56	4242927.75	4.45E-09	1.9YrCancerDerived_Inh	4.45E-09
1092	ALL	559131.56	4243227.75	4.44E-09	1.9YrCancerDerived_Inh	4.44E-09
1047	ALL	559131.56	4243207.75	4.44E-09	1.9YrCancerDerived_Inh	4.44E-09
1192	ALL	559791.56	4243267.75	4.44E-09	1.9YrCancerDerived_Inh	4.44E-09
801	ALL	559691.56	4243087.75	4.41E-09	1.9YrCancerDerived_Inh	4.41E-09
71	ALL	559491.56	4242767.75	4.38E-09	1.9YrCancerDerived_Inh	4.38E-09
2155	ALL	559891.56	4243687.75	4.38E-09	1.9YrCancerDerived_Inh	4.38E-09
982	ALL	559731.56	4243167.75	4.38E-09	1.9YrCancerDerived_Inh	4.38E-09
1135	ALL	559131.56	4243247.75	4.38E-09	1.9YrCancerDerived_Inh	4.38E-09
824	ALL	559151.56	4243107.75	4.37E-09	1.9YrCancerDerived_Inh	4.37E-09
571	ALL	559651.56	4242987.75	4.37E-09	1.9YrCancerDerived_Inh	4.37E-09
1002	ALL	559131.56	4243187.75	4.37E-09	1.9YrCancerDerived_Inh	4.37E-09
108	ALL	559331.56	4242787.75	4.37E-09	1.9YrCancerDerived_Inh	4.37E-09
152	ALL	559311.56	4242807.75	4.35E-09	1.9YrCancerDerived_Inh	4.35E-09

2123	ALL	559251.56	4243687.75	4.35E-09	1.9YrCancerDerived_Inh	4.35E-09
892	ALL	559711.56	4243127.75	4.35E-09	1.9YrCancerDerived_Inh	4.35E-09
1406	ALL	559851.56	4243367.75	4.35E-09	1.9YrCancerDerived_Inh	4.35E-09
23	ALL	559431.56	4242747.75	4.33E-09	1.9YrCancerDerived_Inh	4.33E-09
22	ALL	559411.56	4242747.75	4.33E-09	1.9YrCancerDerived_Inh	4.33E-09
1317	ALL	559831.56	4243327.75	4.32E-09	1.9YrCancerDerived_Inh	4.32E-09
1174	ALL	559131.56	4243267.75	4.31E-09	1.9YrCancerDerived_Inh	4.31E-09
1637	ALL	559891.56	4243467.75	4.31E-09	1.9YrCancerDerived_Inh	4.31E-09
1467	ALL	559171.56	4243407.75	4.31E-09	1.9YrCancerDerived_Inh	4.31E-09
1883	ALL	559231.56	4243587.75	4.31E-09	1.9YrCancerDerived_Inh	4.31E-09
285	ALL	559271.56	4242867.75	4.30E-09	1.9YrCancerDerived_Inh	4.30E-09
509	ALL	559231.56	4242967.75	4.30E-09	1.9YrCancerDerived_Inh	4.30E-09
64	ALL	559351.56	4242767.75	4.30E-09	1.9YrCancerDerived_Inh	4.30E-09
1917	ALL	559911.56	4243587.75	4.29E-09	1.9YrCancerDerived_Inh	4.29E-09
24	ALL	559451.56	4242747.75	4.29E-09	1.9YrCancerDerived_Inh	4.29E-09
1498	ALL	559871.56	4243407.75	4.28E-09	1.9YrCancerDerived_Inh	4.28E-09
1965	ALL	559911.56	4243607.75	4.28E-09	1.9YrCancerDerived_Inh	4.28E-09
958	ALL	559131.56	4243167.75	4.28E-09	1.9YrCancerDerived_Inh	4.28E-09
1869	ALL	559911.56	4243567.75	4.27E-09	1.9YrCancerDerived_Inh	4.27E-09
21	ALL	559391.56	4242747.75	4.27E-09	1.9YrCancerDerived_Inh	4.27E-09
2203	ALL	559891.56	4243707.75	4.27E-09	1.9YrCancerDerived_Inh	4.27E-09
689	ALL	559191.56	4243047.75	4.27E-09	1.9YrCancerDerived_Inh	4.27E-09
164	ALL	559551.56	4242807.75	4.27E-09	1.9YrCancerDerived_Inh	4.27E-09
118	ALL	559531.56	4242787.75	4.27E-09	1.9YrCancerDerived_Inh	4.27E-09
1117	ALL	559771.56	4243227.75	4.26E-09	1.9YrCancerDerived_Inh	4.26E-09
663	ALL	559671.56	4243027.75	4.25E-09	1.9YrCancerDerived_Inh	4.25E-09
196	ALL	559291.56	4242827.75	4.25E-09	1.9YrCancerDerived_Inh	4.25E-09
1333	ALL	559151.56	4243347.75	4.25E-09	1.9YrCancerDerived_Inh	4.25E-09
2013	ALL	559911.56	4243627.75	4.25E-09	1.9YrCancerDerived_Inh	4.25E-09
1821	ALL	559911.56	4243547.75	4.23E-09	1.9YrCancerDerived_Inh	4.23E-09
1741	ALL	559211.56	4243527.75	4.23E-09	1.9YrCancerDerived_Inh	4.23E-09
2171	ALL	559251.56	4243707.75	4.23E-09	1.9YrCancerDerived_Inh	4.23E-09
374	ALL	559251.56	4242907.75	4.22E-09	1.9YrCancerDerived_Inh	4.22E-09
1232	ALL	559811.56	4243287.75	4.21E-09	1.9YrCancerDerived_Inh	4.21E-09
2060	ALL	559911.56	4243647.75	4.21E-09	1.9YrCancerDerived_Inh	4.21E-09
913	ALL	559131.56	4243147.75	4.20E-09	1.9YrCancerDerived_Inh	4.20E-09
25	ALL	559471.56	4242747.75	4.20E-09	1.9YrCancerDerived_Inh	4.20E-09
1209	ALL	559131.56	4243287.75	4.19E-09	1.9YrCancerDerived_Inh	4.19E-09
72	ALL	559511.56	4242767.75	4.19E-09	1.9YrCancerDerived_Inh	4.19E-09
434	ALL	559631.56	4242927.75	4.17E-09	1.9YrCancerDerived_Inh	4.17E-09
599	ALL	559211.56	4243007.75	4.17E-09	1.9YrCancerDerived_Inh	4.17E-09
1776	ALL	559911.56	4243527.75	4.17E-09	1.9YrCancerDerived_Inh	4.17E-09
342	ALL	559611.56	4242887.75	4.17E-09	1.9YrCancerDerived_Inh	4.17E-09
20	ALL	559371.56	4242747.75	4.16E-09	1.9YrCancerDerived_Inh	4.16E-09
2251	ALL	559891.56	4243727.75	4.16E-09	1.9YrCancerDerived_Inh	4.16E-09
1591	ALL	559891.56	4243447.75	4.15E-09	1.9YrCancerDerived_Inh	4.15E-09
2108	ALL	559911.56	4243667.75	4.14E-09	1.9YrCancerDerived_Inh	4.14E-09
734	ALL	559171.56	4243067.75	4.14E-09	1.9YrCancerDerived_Inh	4.14E-09
756	ALL	559691.56	4243067.75	4.13E-09	1.9YrCancerDerived_Inh	4.13E-09
1028	ALL	559751.56	4243187.75	4.12E-09	1.9YrCancerDerived_Inh	4.12E-09
1931	ALL	559231.56	4243607.75	4.11E-09	1.9YrCancerDerived_Inh	4.11E-09
526	ALL	559651.56	4242967.75	4.11E-09	1.9YrCancerDerived_Inh	4.11E-09
868	ALL	559131.56	4243127.75	4.11E-09	1.9YrCancerDerived_Inh	4.11E-09
779	ALL	559151.56	4243087.75	4.09E-09	1.9YrCancerDerived_Inh	4.09E-09
2219	ALL	559251.56	4243727.75	4.09E-09	1.9YrCancerDerived_Inh	4.09E-09
107	ALL	559311.56	4242787.75	4.09E-09	1.9YrCancerDerived_Inh	4.09E-09
63	ALL	559331.56	4242767.75	4.08E-09	1.9YrCancerDerived_Inh	4.08E-09
1730	ALL	559911.56	4243507.75	4.08E-09	1.9YrCancerDerived_Inh	4.08E-09
240	ALL	559271.56	4242847.75	4.07E-09	1.9YrCancerDerived_Inh	4.07E-09
26	ALL	559491.56	4242747.75	4.07E-09	1.9YrCancerDerived_Inh	4.07E-09
464	ALL	559231.56	4242947.75	4.07E-09	1.9YrCancerDerived_Inh	4.07E-09
1362	ALL	559851.56	4243347.75	4.06E-09	1.9YrCancerDerived_Inh	4.06E-09
2156	ALL	559911.56	4243687.75	4.06E-09	1.9YrCancerDerived_Inh	4.06E-09
1157	ALL	559791.56	4243247.75	4.06E-09	1.9YrCancerDerived_Inh	4.06E-09
1452	ALL	559871.56	4243387.75	4.05E-09	1.9YrCancerDerived_Inh	4.05E-09
1248	ALL	559131.56	4243307.75	4.05E-09	1.9YrCancerDerived_Inh	4.05E-09
938	ALL	559731.56	4243147.75	4.04E-09	1.9YrCancerDerived_Inh	4.04E-09
847	ALL	559711.56	4243107.75	4.04E-09	1.9YrCancerDerived_Inh	4.04E-09
1377	ALL	559151.56	4243367.75	4.03E-09	1.9YrCancerDerived_Inh	4.03E-09
19	ALL	559351.56	4242747.75	4.01E-09	1.9YrCancerDerived_Inh	4.01E-09
329	ALL	559251.56	4242887.75	4.01E-09	1.9YrCancerDerived_Inh	4.01E-09
151	ALL	559291.56	4242807.75	4.01E-09	1.9YrCancerDerived_Inh	4.01E-09
617	ALL	559671.56	4243007.75	4.00E-09	1.9YrCancerDerived_Inh	4.00E-09
1274	ALL	559831.56	4243307.75	3.99E-09	1.9YrCancerDerived_Inh	3.99E-09

119	ALL	559551.56	4242787.75	3.98E-09	1.9YrCancerDerived_Inh	3.98E-09
1786	ALL	559211.56	4243547.75	3.98E-09	1.9YrCancerDerived_Inh	3.98E-09
2204	ALL	559911.56	4243707.75	3.97E-09	1.9YrCancerDerived_Inh	3.97E-09
1545	ALL	559891.56	4243427.75	3.97E-09	1.9YrCancerDerived_Inh	3.97E-09
1979	ALL	559231.56	4243627.75	3.97E-09	1.9YrCancerDerived_Inh	3.97E-09
73	ALL	559531.56	4242767.75	3.96E-09	1.9YrCancerDerived_Inh	3.96E-09
1684	ALL	559911.56	4243487.75	3.96E-09	1.9YrCancerDerived_Inh	3.96E-09
554	ALL	559211.56	4242987.75	3.94E-09	1.9YrCancerDerived_Inh	3.94E-09
643	ALL	559191.56	4243027.75	3.94E-09	1.9YrCancerDerived_Inh	3.94E-09
823	ALL	559131.56	4243107.75	3.94E-09	1.9YrCancerDerived_Inh	3.94E-09
389	ALL	559631.56	4242907.75	3.92E-09	1.9YrCancerDerived_Inh	3.92E-09
1966	ALL	559931.56	4243607.75	3.91E-09	1.9YrCancerDerived_Inh	3.91E-09
1074	ALL	559771.56	4243207.75	3.90E-09	1.9YrCancerDerived_Inh	3.90E-09
1918	ALL	559931.56	4243587.75	3.90E-09	1.9YrCancerDerived_Inh	3.90E-09
2014	ALL	559931.56	4243627.75	3.90E-09	1.9YrCancerDerived_Inh	3.90E-09
27	ALL	559511.56	4242747.75	3.90E-09	1.9YrCancerDerived_Inh	3.90E-09
1289	ALL	559131.56	4243327.75	3.89E-09	1.9YrCancerDerived_Inh	3.89E-09
1046	ALL	559111.56	4243207.75	3.88E-09	1.9YrCancerDerived_Inh	3.88E-09
2252	ALL	559911.56	4243727.75	3.88E-09	1.9YrCancerDerived_Inh	3.88E-09
710	ALL	559691.56	4243047.75	3.87E-09	1.9YrCancerDerived_Inh	3.87E-09
1091	ALL	559111.56	4243227.75	3.87E-09	1.9YrCancerDerived_Inh	3.87E-09
2061	ALL	559931.56	4243647.75	3.87E-09	1.9YrCancerDerived_Inh	3.87E-09
1870	ALL	559931.56	4243567.75	3.87E-09	1.9YrCancerDerived_Inh	3.87E-09
480	ALL	559651.56	4242947.75	3.87E-09	1.9YrCancerDerived_Inh	3.87E-09
1193	ALL	559811.56	4243267.75	3.86E-09	1.9YrCancerDerived_Inh	3.86E-09
2026	ALL	559231.56	4243647.75	3.86E-09	1.9YrCancerDerived_Inh	3.86E-09
419	ALL	559231.56	4242927.75	3.86E-09	1.9YrCancerDerived_Inh	3.86E-09
62	ALL	559311.56	4242767.75	3.84E-09	1.9YrCancerDerived_Inh	3.84E-09
195	ALL	559271.56	4242827.75	3.84E-09	1.9YrCancerDerived_Inh	3.84E-09
1638	ALL	559911.56	4243467.75	3.83E-09	1.9YrCancerDerived_Inh	3.83E-09
18	ALL	559331.56	4242747.75	3.83E-09	1.9YrCancerDerived_Inh	3.83E-09
2109	ALL	559931.56	4243667.75	3.83E-09	1.9YrCancerDerived_Inh	3.83E-09
1001	ALL	559111.56	4243187.75	3.83E-09	1.9YrCancerDerived_Inh	3.83E-09
1822	ALL	559931.56	4243547.75	3.82E-09	1.9YrCancerDerived_Inh	3.82E-09
284	ALL	559251.56	4242867.75	3.82E-09	1.9YrCancerDerived_Inh	3.82E-09
1134	ALL	559111.56	4243247.75	3.82E-09	1.9YrCancerDerived_Inh	3.82E-09
1407	ALL	559871.56	4243367.75	3.81E-09	1.9YrCancerDerived_Inh	3.81E-09
1421	ALL	559151.56	4243387.75	3.81E-09	1.9YrCancerDerived_Inh	3.81E-09
688	ALL	559171.56	4243047.75	3.81E-09	1.9YrCancerDerived_Inh	3.81E-09
983	ALL	559751.56	4243167.75	3.79E-09	1.9YrCancerDerived_Inh	3.79E-09
106	ALL	559291.56	4242787.75	3.79E-09	1.9YrCancerDerived_Inh	3.79E-09
733	ALL	559151.56	4243067.75	3.78E-09	1.9YrCancerDerived_Inh	3.78E-09
1318	ALL	559851.56	4243327.75	3.78E-09	1.9YrCancerDerived_Inh	3.78E-09
1499	ALL	559891.56	4243407.75	3.78E-09	1.9YrCancerDerived_Inh	3.78E-09
802	ALL	559711.56	4243087.75	3.78E-09	1.9YrCancerDerived_Inh	3.78E-09
572	ALL	559671.56	4242987.75	3.77E-09	1.9YrCancerDerived_Inh	3.77E-09
2157	ALL	559931.56	4243687.75	3.77E-09	1.9YrCancerDerived_Inh	3.77E-09
1173	ALL	559111.56	4243267.75	3.75E-09	1.9YrCancerDerived_Inh	3.75E-09
1777	ALL	559931.56	4243527.75	3.75E-09	1.9YrCancerDerived_Inh	3.75E-09
957	ALL	559111.56	4243167.75	3.75E-09	1.9YrCancerDerived_Inh	3.75E-09
1834	ALL	559211.56	4243567.75	3.74E-09	1.9YrCancerDerived_Inh	3.74E-09
893	ALL	559731.56	4243127.75	3.74E-09	1.9YrCancerDerived_Inh	3.74E-09
508	ALL	559211.56	4242967.75	3.73E-09	1.9YrCancerDerived_Inh	3.73E-09
74	ALL	559551.56	4242767.75	3.72E-09	1.9YrCancerDerived_Inh	3.72E-09
1118	ALL	559791.56	4243227.75	3.72E-09	1.9YrCancerDerived_Inh	3.72E-09
2074	ALL	559231.56	4243667.75	3.72E-09	1.9YrCancerDerived_Inh	3.72E-09
1332	ALL	559131.56	4243347.75	3.70E-09	1.9YrCancerDerived_Inh	3.70E-09
2205	ALL	559931.56	4243707.75	3.70E-09	1.9YrCancerDerived_Inh	3.70E-09
778	ALL	559131.56	4243087.75	3.70E-09	1.9YrCancerDerived_Inh	3.70E-09
28	ALL	559531.56	4242747.75	3.69E-09	1.9YrCancerDerived_Inh	3.69E-09
343	ALL	559631.56	4242887.75	3.69E-09	1.9YrCancerDerived_Inh	3.69E-09
1592	ALL	559911.56	4243447.75	3.68E-09	1.9YrCancerDerived_Inh	3.68E-09
373	ALL	559231.56	4242907.75	3.68E-09	1.9YrCancerDerived_Inh	3.68E-09
1233	ALL	559831.56	4243287.75	3.68E-09	1.9YrCancerDerived_Inh	3.68E-09
912	ALL	559111.56	4243147.75	3.68E-09	1.9YrCancerDerived_Inh	3.68E-09
1731	ALL	559931.56	4243507.75	3.66E-09	1.9YrCancerDerived_Inh	3.66E-09
598	ALL	559191.56	4243007.75	3.65E-09	1.9YrCancerDerived_Inh	3.65E-09
664	ALL	559691.56	4243027.75	3.65E-09	1.9YrCancerDerived_Inh	3.65E-09
1208	ALL	559111.56	4243287.75	3.65E-09	1.9YrCancerDerived_Inh	3.65E-09
435	ALL	559651.56	4242927.75	3.65E-09	1.9YrCancerDerived_Inh	3.65E-09
150	ALL	559271.56	4242807.75	3.65E-09	1.9YrCancerDerived_Inh	3.65E-09
239	ALL	559251.56	4242847.75	3.64E-09	1.9YrCancerDerived_Inh	3.64E-09
2253	ALL	559931.56	4243727.75	3.63E-09	1.9YrCancerDerived_Inh	3.63E-09
17	ALL	559311.56	4242747.75	3.62E-09	1.9YrCancerDerived_Inh	3.62E-09

1466	ALL	559151.56	4243407.75	3.62E-09	1.9YrCancerDerived_Inh	3.62E-09
867	ALL	559111.56	4243127.75	3.61E-09	1.9YrCancerDerived_Inh	3.61E-09
2122	ALL	559231.56	4243687.75	3.60E-09	1.9YrCancerDerived_Inh	3.60E-09
1029	ALL	559771.56	4243187.75	3.59E-09	1.9YrCancerDerived_Inh	3.59E-09
61	ALL	559291.56	4242767.75	3.58E-09	1.9YrCancerDerived_Inh	3.58E-09
2015	ALL	559951.56	4243627.75	3.58E-09	1.9YrCancerDerived_Inh	3.58E-09
1453	ALL	559891.56	4243387.75	3.58E-09	1.9YrCancerDerived_Inh	3.58E-09
1967	ALL	559951.56	4243607.75	3.57E-09	1.9YrCancerDerived_Inh	3.57E-09
1363	ALL	559871.56	4243347.75	3.57E-09	1.9YrCancerDerived_Inh	3.57E-09
1882	ALL	559211.56	4243587.75	3.57E-09	1.9YrCancerDerived_Inh	3.57E-09
2062	ALL	559951.56	4243647.75	3.57E-09	1.9YrCancerDerived_Inh	3.57E-09
527	ALL	559671.56	4242967.75	3.56E-09	1.9YrCancerDerived_Inh	3.56E-09
1919	ALL	559951.56	4243587.75	3.55E-09	1.9YrCancerDerived_Inh	3.55E-09
1158	ALL	559811.56	4243247.75	3.55E-09	1.9YrCancerDerived_Inh	3.55E-09
1685	ALL	559931.56	4243487.75	3.55E-09	1.9YrCancerDerived_Inh	3.55E-09
757	ALL	559711.56	4243067.75	3.55E-09	1.9YrCancerDerived_Inh	3.55E-09
2110	ALL	559951.56	4243667.75	3.54E-09	1.9YrCancerDerived_Inh	3.54E-09
1247	ALL	559111.56	4243307.75	3.54E-09	1.9YrCancerDerived_Inh	3.54E-09
463	ALL	559211.56	4242947.75	3.54E-09	1.9YrCancerDerived_Inh	3.54E-09
1740	ALL	559191.56	4243527.75	3.53E-09	1.9YrCancerDerived_Inh	3.53E-09
642	ALL	559171.56	4243027.75	3.53E-09	1.9YrCancerDerived_Inh	3.53E-09
1546	ALL	559911.56	4243427.75	3.53E-09	1.9YrCancerDerived_Inh	3.53E-09
328	ALL	559231.56	4242887.75	3.52E-09	1.9YrCancerDerived_Inh	3.52E-09
1871	ALL	559951.56	4243567.75	3.51E-09	1.9YrCancerDerived_Inh	3.51E-09
939	ALL	559751.56	4243147.75	3.51E-09	1.9YrCancerDerived_Inh	3.51E-09
1275	ALL	559851.56	4243307.75	3.51E-09	1.9YrCancerDerived_Inh	3.51E-09
822	ALL	559111.56	4243107.75	3.51E-09	1.9YrCancerDerived_Inh	3.51E-09
2170	ALL	559231.56	4243707.75	3.50E-09	1.9YrCancerDerived_Inh	3.50E-09
2158	ALL	559951.56	4243687.75	3.50E-09	1.9YrCancerDerived_Inh	3.50E-09
1376	ALL	559131.56	4243367.75	3.50E-09	1.9YrCancerDerived_Inh	3.50E-09
848	ALL	559731.56	4243107.75	3.49E-09	1.9YrCancerDerived_Inh	3.49E-09
298	ALL	559631.56	4242867.75	3.48E-09	1.9YrCancerDerived_Inh	3.48E-09
105	ALL	559271.56	4242787.75	3.48E-09	1.9YrCancerDerived_Inh	3.48E-09
29	ALL	559551.56	4242747.75	3.48E-09	1.9YrCancerDerived_Inh	3.48E-09
687	ALL	559151.56	4243047.75	3.47E-09	1.9YrCancerDerived_Inh	3.47E-09
194	ALL	559251.56	4242827.75	3.46E-09	1.9YrCancerDerived_Inh	3.46E-09
1823	ALL	559951.56	4243547.75	3.46E-09	1.9YrCancerDerived_Inh	3.46E-09
1512	ALL	559151.56	4243427.75	3.45E-09	1.9YrCancerDerived_Inh	3.45E-09
75	ALL	559571.56	4242767.75	3.45E-09	1.9YrCancerDerived_Inh	3.45E-09
390	ALL	559651.56	4242907.75	3.45E-09	1.9YrCancerDerived_Inh	3.45E-09
618	ALL	559691.56	4243007.75	3.45E-09	1.9YrCancerDerived_Inh	3.45E-09
553	ALL	559191.56	4242987.75	3.45E-09	1.9YrCancerDerived_Inh	3.45E-09
2206	ALL	559951.56	4243707.75	3.45E-09	1.9YrCancerDerived_Inh	3.45E-09
1930	ALL	559211.56	4243607.75	3.44E-09	1.9YrCancerDerived_Inh	3.44E-09
1639	ALL	559931.56	4243467.75	3.42E-09	1.9YrCancerDerived_Inh	3.42E-09
1045	ALL	559091.56	4243207.75	3.42E-09	1.9YrCancerDerived_Inh	3.42E-09
1075	ALL	559791.56	4243207.75	3.42E-09	1.9YrCancerDerived_Inh	3.42E-09
732	ALL	559131.56	4243067.75	3.42E-09	1.9YrCancerDerived_Inh	3.42E-09
1090	ALL	559091.56	4243227.75	3.41E-09	1.9YrCancerDerived_Inh	3.41E-09
1288	ALL	559111.56	4243327.75	3.41E-09	1.9YrCancerDerived_Inh	3.41E-09
2218	ALL	559231.56	4243727.75	3.41E-09	1.9YrCancerDerived_Inh	3.41E-09
16	ALL	559291.56	4242747.75	3.40E-09	1.9YrCancerDerived_Inh	3.40E-09
1000	ALL	559091.56	4243187.75	3.40E-09	1.9YrCancerDerived_Inh	3.40E-09
1194	ALL	559831.56	4243267.75	3.39E-09	1.9YrCancerDerived_Inh	3.39E-09
2254	ALL	559951.56	4243727.75	3.39E-09	1.9YrCancerDerived_Inh	3.39E-09
1778	ALL	559951.56	4243527.75	3.38E-09	1.9YrCancerDerived_Inh	3.38E-09
283	ALL	559231.56	4242867.75	3.38E-09	1.9YrCancerDerived_Inh	3.38E-09
481	ALL	559671.56	4242947.75	3.37E-09	1.9YrCancerDerived_Inh	3.37E-09
1408	ALL	559891.56	4243367.75	3.37E-09	1.9YrCancerDerived_Inh	3.37E-09
418	ALL	559211.56	4242927.75	3.37E-09	1.9YrCancerDerived_Inh	3.37E-09
1133	ALL	559091.56	4243247.75	3.37E-09	1.9YrCancerDerived_Inh	3.37E-09
1500	ALL	559911.56	4243407.75	3.36E-09	1.9YrCancerDerived_Inh	3.36E-09
711	ALL	559711.56	4243047.75	3.34E-09	1.9YrCancerDerived_Inh	3.34E-09
956	ALL	559091.56	4243167.75	3.34E-09	1.9YrCancerDerived_Inh	3.34E-09
1319	ALL	559871.56	4243327.75	3.33E-09	1.9YrCancerDerived_Inh	3.33E-09
777	ALL	559111.56	4243087.75	3.33E-09	1.9YrCancerDerived_Inh	3.33E-09
1785	ALL	559191.56	4243547.75	3.32E-09	1.9YrCancerDerived_Inh	3.32E-09
1978	ALL	559211.56	4243627.75	3.32E-09	1.9YrCancerDerived_Inh	3.32E-09
984	ALL	559771.56	4243167.75	3.31E-09	1.9YrCancerDerived_Inh	3.31E-09
60	ALL	559271.56	4242767.75	3.31E-09	1.9YrCancerDerived_Inh	3.31E-09
1420	ALL	559131.56	4243387.75	3.31E-09	1.9YrCancerDerived_Inh	3.31E-09
149	ALL	559251.56	4242807.75	3.30E-09	1.9YrCancerDerived_Inh	3.30E-09
1172	ALL	559091.56	4243267.75	3.30E-09	1.9YrCancerDerived_Inh	3.30E-09
253	ALL	559631.56	4242847.75	3.29E-09	1.9YrCancerDerived_Inh	3.29E-09

1732	ALL	559951.56	4243507.75	3.29E-09	1.9YrCancerDerived_Inh	3.29E-09
1593	ALL	559931.56	4243447.75	3.29E-09	1.9YrCancerDerived_Inh	3.29E-09
2016	ALL	559971.56	4243627.75	3.29E-09	1.9YrCancerDerived_Inh	3.29E-09
2063	ALL	559971.56	4243647.75	3.29E-09	1.9YrCancerDerived_Inh	3.29E-09
911	ALL	559091.56	4243147.75	3.29E-09	1.9YrCancerDerived_Inh	3.29E-09
1558	ALL	559151.56	4243447.75	3.28E-09	1.9YrCancerDerived_Inh	3.28E-09
2111	ALL	559971.56	4243667.75	3.28E-09	1.9YrCancerDerived_Inh	3.28E-09
1968	ALL	559971.56	4243607.75	3.27E-09	1.9YrCancerDerived_Inh	3.27E-09
803	ALL	559731.56	4243087.75	3.27E-09	1.9YrCancerDerived_Inh	3.27E-09
573	ALL	559691.56	4242987.75	3.27E-09	1.9YrCancerDerived_Inh	3.27E-09
344	ALL	559651.56	4242887.75	3.27E-09	1.9YrCancerDerived_Inh	3.27E-09
1119	ALL	559811.56	4243227.75	3.27E-09	1.9YrCancerDerived_Inh	3.27E-09
507	ALL	559191.56	4242967.75	3.26E-09	1.9YrCancerDerived_Inh	3.26E-09
894	ALL	559751.56	4243127.75	3.26E-09	1.9YrCancerDerived_Inh	3.26E-09
1331	ALL	559111.56	4243347.75	3.25E-09	1.9YrCancerDerived_Inh	3.25E-09
2159	ALL	559971.56	4243687.75	3.25E-09	1.9YrCancerDerived_Inh	3.25E-09
30	ALL	559571.56	4242747.75	3.25E-09	1.9YrCancerDerived_Inh	3.25E-09
597	ALL	559171.56	4243007.75	3.25E-09	1.9YrCancerDerived_Inh	3.25E-09
1234	ALL	559851.56	4243287.75	3.25E-09	1.9YrCancerDerived_Inh	3.25E-09
1920	ALL	559971.56	4243587.75	3.24E-09	1.9YrCancerDerived_Inh	3.24E-09
238	ALL	559231.56	4242847.75	3.24E-09	1.9YrCancerDerived_Inh	3.24E-09
866	ALL	559091.56	4243127.75	3.23E-09	1.9YrCancerDerived_Inh	3.23E-09
372	ALL	559211.56	4242907.75	3.22E-09	1.9YrCancerDerived_Inh	3.22E-09
1207	ALL	559091.56	4243287.75	3.21E-09	1.9YrCancerDerived_Inh	3.21E-09
2207	ALL	559971.56	4243707.75	3.21E-09	1.9YrCancerDerived_Inh	3.21E-09
2025	ALL	559211.56	4243647.75	3.21E-09	1.9YrCancerDerived_Inh	3.21E-09
436	ALL	559671.56	4242927.75	3.20E-09	1.9YrCancerDerived_Inh	3.20E-09
1872	ALL	559971.56	4243567.75	3.20E-09	1.9YrCancerDerived_Inh	3.20E-09
1686	ALL	559951.56	4243487.75	3.19E-09	1.9YrCancerDerived_Inh	3.19E-09
641	ALL	559151.56	4243027.75	3.18E-09	1.9YrCancerDerived_Inh	3.18E-09
1454	ALL	559911.56	4243387.75	3.18E-09	1.9YrCancerDerived_Inh	3.18E-09
104	ALL	559251.56	4242787.75	3.17E-09	1.9YrCancerDerived_Inh	3.17E-09
2255	ALL	559971.56	4243727.75	3.17E-09	1.9YrCancerDerived_Inh	3.17E-09
665	ALL	559711.56	4243027.75	3.16E-09	1.9YrCancerDerived_Inh	3.16E-09
1364	ALL	559891.56	4243347.75	3.16E-09	1.9YrCancerDerived_Inh	3.16E-09
686	ALL	559131.56	4243047.75	3.16E-09	1.9YrCancerDerived_Inh	3.16E-09
15	ALL	559271.56	4242747.75	3.16E-09	1.9YrCancerDerived_Inh	3.16E-09
1030	ALL	559791.56	4243187.75	3.15E-09	1.9YrCancerDerived_Inh	3.15E-09
821	ALL	559091.56	4243107.75	3.15E-09	1.9YrCancerDerived_Inh	3.15E-09
1547	ALL	559931.56	4243427.75	3.15E-09	1.9YrCancerDerived_Inh	3.15E-09
1833	ALL	559191.56	4243567.75	3.14E-09	1.9YrCancerDerived_Inh	3.14E-09
1465	ALL	559131.56	4243407.75	3.14E-09	1.9YrCancerDerived_Inh	3.14E-09
1824	ALL	559971.56	4243547.75	3.14E-09	1.9YrCancerDerived_Inh	3.14E-09
1159	ALL	559831.56	4243247.75	3.13E-09	1.9YrCancerDerived_Inh	3.13E-09
1246	ALL	559091.56	4243307.75	3.13E-09	1.9YrCancerDerived_Inh	3.13E-09
731	ALL	559111.56	4243067.75	3.12E-09	1.9YrCancerDerived_Inh	3.12E-09
193	ALL	559231.56	4242827.75	3.11E-09	1.9YrCancerDerived_Inh	3.11E-09
2073	ALL	559211.56	4243667.75	3.11E-09	1.9YrCancerDerived_Inh	3.11E-09
528	ALL	559691.56	4242967.75	3.11E-09	1.9YrCancerDerived_Inh	3.11E-09
1276	ALL	559871.56	4243307.75	3.10E-09	1.9YrCancerDerived_Inh	3.10E-09
299	ALL	559651.56	4242867.75	3.10E-09	1.9YrCancerDerived_Inh	3.10E-09
462	ALL	559191.56	4242947.75	3.10E-09	1.9YrCancerDerived_Inh	3.10E-09
327	ALL	559211.56	4242887.75	3.10E-09	1.9YrCancerDerived_Inh	3.10E-09
758	ALL	559731.56	4243067.75	3.08E-09	1.9YrCancerDerived_Inh	3.08E-09
940	ALL	559771.56	4243147.75	3.08E-09	1.9YrCancerDerived_Inh	3.08E-09
1640	ALL	559951.56	4243467.75	3.07E-09	1.9YrCancerDerived_Inh	3.07E-09
552	ALL	559171.56	4242987.75	3.07E-09	1.9YrCancerDerived_Inh	3.07E-09
1375	ALL	559111.56	4243367.75	3.06E-09	1.9YrCancerDerived_Inh	3.06E-09
1779	ALL	559971.56	4243527.75	3.06E-09	1.9YrCancerDerived_Inh	3.06E-09
1044	ALL	559071.56	4243207.75	3.05E-09	1.9YrCancerDerived_Inh	3.05E-09
849	ALL	559751.56	4243107.75	3.05E-09	1.9YrCancerDerived_Inh	3.05E-09
391	ALL	559671.56	4242907.75	3.05E-09	1.9YrCancerDerived_Inh	3.05E-09
59	ALL	559251.56	4242767.75	3.04E-09	1.9YrCancerDerived_Inh	3.04E-09
1089	ALL	559071.56	4243227.75	3.04E-09	1.9YrCancerDerived_Inh	3.04E-09
776	ALL	559091.56	4243087.75	3.03E-09	1.9YrCancerDerived_Inh	3.03E-09
999	ALL	559071.56	4243187.75	3.03E-09	1.9YrCancerDerived_Inh	3.03E-09
2121	ALL	559211.56	4243687.75	3.02E-09	1.9YrCancerDerived_Inh	3.02E-09
1076	ALL	559811.56	4243207.75	3.02E-09	1.9YrCancerDerived_Inh	3.02E-09
1287	ALL	559091.56	4243327.75	3.02E-09	1.9YrCancerDerived_Inh	3.02E-09
31	ALL	559591.56	4242747.75	3.01E-09	1.9YrCancerDerived_Inh	3.01E-09
1195	ALL	559851.56	4243267.75	3.00E-09	1.9YrCancerDerived_Inh	3.00E-09
619	ALL	559711.56	4243007.75	3.00E-09	1.9YrCancerDerived_Inh	3.00E-09
1409	ALL	559911.56	4243367.75	3.00E-09	1.9YrCancerDerived_Inh	3.00E-09
1501	ALL	559931.56	4243407.75	3.00E-09	1.9YrCancerDerived_Inh	3.00E-09

1132	ALL	559071.56	4243247.75	2.99E-09	1.9YrCancerDerived_Inh	2.99E-09
955	ALL	559071.56	4243167.75	2.99E-09	1.9YrCancerDerived_Inh	2.99E-09
1881	ALL	559191.56	4243587.75	2.99E-09	1.9YrCancerDerived_Inh	2.99E-09
148	ALL	559231.56	4242807.75	2.98E-09	1.9YrCancerDerived_Inh	2.98E-09
1511	ALL	559131.56	4243427.75	2.97E-09	1.9YrCancerDerived_Inh	2.97E-09
282	ALL	559211.56	4242867.75	2.97E-09	1.9YrCancerDerived_Inh	2.97E-09
1733	ALL	559971.56	4243507.75	2.97E-09	1.9YrCancerDerived_Inh	2.97E-09
1320	ALL	559891.56	4243327.75	2.96E-09	1.9YrCancerDerived_Inh	2.96E-09
482	ALL	559691.56	4242947.75	2.96E-09	1.9YrCancerDerived_Inh	2.96E-09
910	ALL	559071.56	4243147.75	2.96E-09	1.9YrCancerDerived_Inh	2.96E-09
417	ALL	559191.56	4242927.75	2.95E-09	1.9YrCancerDerived_Inh	2.95E-09
1594	ALL	559951.56	4243447.75	2.95E-09	1.9YrCancerDerived_Inh	2.95E-09
254	ALL	559651.56	4242847.75	2.95E-09	1.9YrCancerDerived_Inh	2.95E-09
596	ALL	559151.56	4243007.75	2.93E-09	1.9YrCancerDerived_Inh	2.93E-09
2169	ALL	559211.56	4243707.75	2.93E-09	1.9YrCancerDerived_Inh	2.93E-09
985	ALL	559791.56	4243167.75	2.92E-09	1.9YrCancerDerived_Inh	2.92E-09
1171	ALL	559071.56	4243267.75	2.92E-09	1.9YrCancerDerived_Inh	2.92E-09
865	ALL	559071.56	4243127.75	2.92E-09	1.9YrCancerDerived_Inh	2.92E-09
685	ALL	559111.56	4243047.75	2.91E-09	1.9YrCancerDerived_Inh	2.91E-09
712	ALL	559731.56	4243047.75	2.91E-09	1.9YrCancerDerived_Inh	2.91E-09
14	ALL	559251.56	4242747.75	2.91E-09	1.9YrCancerDerived_Inh	2.91E-09
1419	ALL	559111.56	4243387.75	2.91E-09	1.9YrCancerDerived_Inh	2.91E-09
345	ALL	559671.56	4242887.75	2.90E-09	1.9YrCancerDerived_Inh	2.90E-09
640	ALL	559131.56	4243027.75	2.90E-09	1.9YrCancerDerived_Inh	2.90E-09
1120	ALL	559831.56	4243227.75	2.89E-09	1.9YrCancerDerived_Inh	2.89E-09
730	ALL	559091.56	4243067.75	2.89E-09	1.9YrCancerDerived_Inh	2.89E-09
506	ALL	559171.56	4242967.75	2.89E-09	1.9YrCancerDerived_Inh	2.89E-09
1235	ALL	559871.56	4243287.75	2.88E-09	1.9YrCancerDerived_Inh	2.88E-09
1687	ALL	559971.56	4243487.75	2.88E-09	1.9YrCancerDerived_Inh	2.88E-09
237	ALL	559211.56	4242847.75	2.88E-09	1.9YrCancerDerived_Inh	2.88E-09
103	ALL	559231.56	4242787.75	2.87E-09	1.9YrCancerDerived_Inh	2.87E-09
1330	ALL	559091.56	4243347.75	2.87E-09	1.9YrCancerDerived_Inh	2.87E-09
895	ALL	559771.56	4243127.75	2.87E-09	1.9YrCancerDerived_Inh	2.87E-09
804	ALL	559751.56	4243087.75	2.87E-09	1.9YrCancerDerived_Inh	2.87E-09
820	ALL	559071.56	4243107.75	2.86E-09	1.9YrCancerDerived_Inh	2.86E-09
1929	ALL	559191.56	4243607.75	2.86E-09	1.9YrCancerDerived_Inh	2.86E-09
1206	ALL	559071.56	4243287.75	2.86E-09	1.9YrCancerDerived_Inh	2.86E-09
574	ALL	559711.56	4242987.75	2.86E-09	1.9YrCancerDerived_Inh	2.86E-09
2217	ALL	559211.56	4243727.75	2.85E-09	1.9YrCancerDerived_Inh	2.85E-09
1455	ALL	559931.56	4243387.75	2.84E-09	1.9YrCancerDerived_Inh	2.84E-09
371	ALL	559191.56	4242907.75	2.83E-09	1.9YrCancerDerived_Inh	2.83E-09
1548	ALL	559951.56	4243427.75	2.82E-09	1.9YrCancerDerived_Inh	2.82E-09
437	ALL	559691.56	4242927.75	2.82E-09	1.9YrCancerDerived_Inh	2.82E-09
1365	ALL	559911.56	4243347.75	2.82E-09	1.9YrCancerDerived_Inh	2.82E-09
1557	ALL	559131.56	4243447.75	2.82E-09	1.9YrCancerDerived_Inh	2.82E-09
209	ALL	559651.56	4242827.75	2.80E-09	1.9YrCancerDerived_Inh	2.80E-09
1031	ALL	559811.56	4243187.75	2.79E-09	1.9YrCancerDerived_Inh	2.79E-09
1245	ALL	559071.56	4243307.75	2.79E-09	1.9YrCancerDerived_Inh	2.79E-09
775	ALL	559071.56	4243087.75	2.78E-09	1.9YrCancerDerived_Inh	2.78E-09
1160	ALL	559851.56	4243247.75	2.78E-09	1.9YrCancerDerived_Inh	2.78E-09
192	ALL	559211.56	4242827.75	2.78E-09	1.9YrCancerDerived_Inh	2.78E-09
1977	ALL	559191.56	4243627.75	2.78E-09	1.9YrCancerDerived_Inh	2.78E-09
58	ALL	559231.56	4242767.75	2.77E-09	1.9YrCancerDerived_Inh	2.77E-09
1641	ALL	559971.56	4243467.75	2.77E-09	1.9YrCancerDerived_Inh	2.77E-09
666	ALL	559731.56	4243027.75	2.77E-09	1.9YrCancerDerived_Inh	2.77E-09
1277	ALL	559891.56	4243307.75	2.76E-09	1.9YrCancerDerived_Inh	2.76E-09
300	ALL	559671.56	4242867.75	2.76E-09	1.9YrCancerDerived_Inh	2.76E-09
551	ALL	559151.56	4242987.75	2.76E-09	1.9YrCancerDerived_Inh	2.76E-09
1464	ALL	559111.56	4243407.75	2.76E-09	1.9YrCancerDerived_Inh	2.76E-09
461	ALL	559171.56	4242947.75	2.74E-09	1.9YrCancerDerived_Inh	2.74E-09
1374	ALL	559091.56	4243367.75	2.74E-09	1.9YrCancerDerived_Inh	2.74E-09
998	ALL	559051.56	4243187.75	2.73E-09	1.9YrCancerDerived_Inh	2.73E-09
326	ALL	559191.56	4242887.75	2.73E-09	1.9YrCancerDerived_Inh	2.73E-09
529	ALL	559711.56	4242967.75	2.73E-09	1.9YrCancerDerived_Inh	2.73E-09
1043	ALL	559051.56	4243207.75	2.73E-09	1.9YrCancerDerived_Inh	2.73E-09
941	ALL	559791.56	4243147.75	2.72E-09	1.9YrCancerDerived_Inh	2.72E-09
1088	ALL	559051.56	4243227.75	2.72E-09	1.9YrCancerDerived_Inh	2.72E-09
759	ALL	559751.56	4243067.75	2.70E-09	1.9YrCancerDerived_Inh	2.70E-09
684	ALL	559091.56	4243047.75	2.70E-09	1.9YrCancerDerived_Inh	2.70E-09
639	ALL	559111.56	4243027.75	2.70E-09	1.9YrCancerDerived_Inh	2.70E-09
392	ALL	559691.56	4242907.75	2.69E-09	1.9YrCancerDerived_Inh	2.69E-09
1286	ALL	559071.56	4243327.75	2.69E-09	1.9YrCancerDerived_Inh	2.69E-09
954	ALL	559051.56	4243167.75	2.69E-09	1.9YrCancerDerived_Inh	2.69E-09
1502	ALL	559951.56	4243407.75	2.69E-09	1.9YrCancerDerived_Inh	2.69E-09

147	ALL	559211.56	4242807.75	2.69E-09	1.9YrCancerDerived_Inh	2.69E-09
850	ALL	559771.56	4243107.75	2.69E-09	1.9YrCancerDerived_Inh	2.69E-09
1410	ALL	559931.56	4243367.75	2.69E-09	1.9YrCancerDerived_Inh	2.69E-09
595	ALL	559131.56	4243007.75	2.68E-09	1.9YrCancerDerived_Inh	2.68E-09
1077	ALL	559831.56	4243207.75	2.68E-09	1.9YrCancerDerived_Inh	2.68E-09
1196	ALL	559871.56	4243267.75	2.68E-09	1.9YrCancerDerived_Inh	2.68E-09
13	ALL	559231.56	4242747.75	2.68E-09	1.9YrCancerDerived_Inh	2.68E-09
1131	ALL	559051.56	4243247.75	2.68E-09	1.9YrCancerDerived_Inh	2.68E-09
2024	ALL	559191.56	4243647.75	2.67E-09	1.9YrCancerDerived_Inh	2.67E-09
1595	ALL	559971.56	4243447.75	2.66E-09	1.9YrCancerDerived_Inh	2.66E-09
1603	ALL	559131.56	4243467.75	2.66E-09	1.9YrCancerDerived_Inh	2.66E-09
729	ALL	559071.56	4243067.75	2.66E-09	1.9YrCancerDerived_Inh	2.66E-09
909	ALL	559051.56	4243147.75	2.65E-09	1.9YrCancerDerived_Inh	2.65E-09
1321	ALL	559911.56	4243327.75	2.65E-09	1.9YrCancerDerived_Inh	2.65E-09
255	ALL	559671.56	4242847.75	2.64E-09	1.9YrCancerDerived_Inh	2.64E-09
1832	ALL	559171.56	4243567.75	2.64E-09	1.9YrCancerDerived_Inh	2.64E-09
281	ALL	559191.56	4242867.75	2.64E-09	1.9YrCancerDerived_Inh	2.64E-09
620	ALL	559731.56	4243007.75	2.63E-09	1.9YrCancerDerived_Inh	2.63E-09
864	ALL	559051.56	4243127.75	2.62E-09	1.9YrCancerDerived_Inh	2.62E-09
1510	ALL	559111.56	4243427.75	2.61E-09	1.9YrCancerDerived_Inh	2.61E-09
1170	ALL	559051.56	4243267.75	2.61E-09	1.9YrCancerDerived_Inh	2.61E-09
416	ALL	559171.56	4242927.75	2.61E-09	1.9YrCancerDerived_Inh	2.61E-09
483	ALL	559711.56	4242947.75	2.61E-09	1.9YrCancerDerived_Inh	2.61E-09
102	ALL	559211.56	4242787.75	2.60E-09	1.9YrCancerDerived_Inh	2.60E-09
986	ALL	559811.56	4243167.75	2.60E-09	1.9YrCancerDerived_Inh	2.60E-09
819	ALL	559051.56	4243107.75	2.60E-09	1.9YrCancerDerived_Inh	2.60E-09
1418	ALL	559091.56	4243387.75	2.60E-09	1.9YrCancerDerived_Inh	2.60E-09
2072	ALL	559191.56	4243667.75	2.59E-09	1.9YrCancerDerived_Inh	2.59E-09
505	ALL	559151.56	4242967.75	2.59E-09	1.9YrCancerDerived_Inh	2.59E-09
1121	ALL	559851.56	4243227.75	2.58E-09	1.9YrCancerDerived_Inh	2.58E-09
1329	ALL	559071.56	4243347.75	2.58E-09	1.9YrCancerDerived_Inh	2.58E-09
1236	ALL	559891.56	4243287.75	2.58E-09	1.9YrCancerDerived_Inh	2.58E-09
346	ALL	559691.56	4242887.75	2.58E-09	1.9YrCancerDerived_Inh	2.58E-09
713	ALL	559751.56	4243047.75	2.56E-09	1.9YrCancerDerived_Inh	2.56E-09
1205	ALL	559051.56	4243287.75	2.56E-09	1.9YrCancerDerived_Inh	2.56E-09
236	ALL	559191.56	4242847.75	2.55E-09	1.9YrCancerDerived_Inh	2.55E-09
1456	ALL	559951.56	4243387.75	2.55E-09	1.9YrCancerDerived_Inh	2.55E-09
1549	ALL	559971.56	4243427.75	2.55E-09	1.9YrCancerDerived_Inh	2.55E-09
896	ALL	559791.56	4243127.75	2.54E-09	1.9YrCancerDerived_Inh	2.54E-09
774	ALL	559051.56	4243087.75	2.54E-09	1.9YrCancerDerived_Inh	2.54E-09
2120	ALL	559191.56	4243687.75	2.54E-09	1.9YrCancerDerived_Inh	2.54E-09
805	ALL	559771.56	4243087.75	2.53E-09	1.9YrCancerDerived_Inh	2.53E-09
1366	ALL	559931.56	4243347.75	2.53E-09	1.9YrCancerDerived_Inh	2.53E-09
57	ALL	559211.56	4242767.75	2.52E-09	1.9YrCancerDerived_Inh	2.52E-09
210	ALL	559671.56	4242827.75	2.52E-09	1.9YrCancerDerived_Inh	2.52E-09
575	ALL	559731.56	4242987.75	2.52E-09	1.9YrCancerDerived_Inh	2.52E-09
1880	ALL	559171.56	4243587.75	2.52E-09	1.9YrCancerDerived_Inh	2.52E-09
638	ALL	559091.56	4243027.75	2.51E-09	1.9YrCancerDerived_Inh	2.51E-09
550	ALL	559131.56	4242987.75	2.51E-09	1.9YrCancerDerived_Inh	2.51E-09
370	ALL	559171.56	4242907.75	2.51E-09	1.9YrCancerDerived_Inh	2.51E-09
1244	ALL	559051.56	4243307.75	2.50E-09	1.9YrCancerDerived_Inh	2.50E-09
594	ALL	559111.56	4243007.75	2.50E-09	1.9YrCancerDerived_Inh	2.50E-09
438	ALL	559711.56	4242927.75	2.50E-09	1.9YrCancerDerived_Inh	2.50E-09
1032	ALL	559831.56	4243187.75	2.49E-09	1.9YrCancerDerived_Inh	2.49E-09
683	ALL	559071.56	4243047.75	2.49E-09	1.9YrCancerDerived_Inh	2.49E-09
1161	ALL	559871.56	4243247.75	2.49E-09	1.9YrCancerDerived_Inh	2.49E-09
1278	ALL	559911.56	4243307.75	2.48E-09	1.9YrCancerDerived_Inh	2.48E-09
191	ALL	559191.56	4242827.75	2.48E-09	1.9YrCancerDerived_Inh	2.48E-09
1556	ALL	559111.56	4243447.75	2.48E-09	1.9YrCancerDerived_Inh	2.48E-09
2168	ALL	559191.56	4243707.75	2.48E-09	1.9YrCancerDerived_Inh	2.48E-09
1042	ALL	559031.56	4243207.75	2.47E-09	1.9YrCancerDerived_Inh	2.47E-09
997	ALL	559031.56	4243187.75	2.47E-09	1.9YrCancerDerived_Inh	2.47E-09
301	ALL	559691.56	4242867.75	2.47E-09	1.9YrCancerDerived_Inh	2.47E-09
1463	ALL	559091.56	4243407.75	2.46E-09	1.9YrCancerDerived_Inh	2.46E-09
1087	ALL	559031.56	4243227.75	2.46E-09	1.9YrCancerDerived_Inh	2.46E-09
1373	ALL	559071.56	4243367.75	2.45E-09	1.9YrCancerDerived_Inh	2.45E-09
953	ALL	559031.56	4243167.75	2.45E-09	1.9YrCancerDerived_Inh	2.45E-09
12	ALL	559211.56	4242747.75	2.45E-09	1.9YrCancerDerived_Inh	2.45E-09
460	ALL	559151.56	4242947.75	2.44E-09	1.9YrCancerDerived_Inh	2.44E-09
1928	ALL	559171.56	4243607.75	2.44E-09	1.9YrCancerDerived_Inh	2.44E-09
667	ALL	559751.56	4243027.75	2.44E-09	1.9YrCancerDerived_Inh	2.44E-09
728	ALL	559051.56	4243067.75	2.44E-09	1.9YrCancerDerived_Inh	2.44E-09
1503	ALL	559971.56	4243407.75	2.43E-09	1.9YrCancerDerived_Inh	2.43E-09
942	ALL	559811.56	4243147.75	2.43E-09	1.9YrCancerDerived_Inh	2.43E-09

1285	ALL	559051.56	4243327.75	2.42E-09	1.9YrCancerDerived_Inh	2.42E-09
1411	ALL	559951.56	4243367.75	2.42E-09	1.9YrCancerDerived_Inh	2.42E-09
325	ALL	559171.56	4242887.75	2.41E-09	1.9YrCancerDerived_Inh	2.41E-09
165	ALL	559671.56	4242807.75	2.41E-09	1.9YrCancerDerived_Inh	2.41E-09
530	ALL	559731.56	4242967.75	2.41E-09	1.9YrCancerDerived_Inh	2.41E-09
2216	ALL	559191.56	4243727.75	2.41E-09	1.9YrCancerDerived_Inh	2.41E-09
146	ALL	559191.56	4242807.75	2.41E-09	1.9YrCancerDerived_Inh	2.41E-09
1130	ALL	559031.56	4243247.75	2.41E-09	1.9YrCancerDerived_Inh	2.41E-09
908	ALL	559031.56	4243147.75	2.40E-09	1.9YrCancerDerived_Inh	2.40E-09
1197	ALL	559891.56	4243267.75	2.40E-09	1.9YrCancerDerived_Inh	2.40E-09
1078	ALL	559851.56	4243207.75	2.40E-09	1.9YrCancerDerived_Inh	2.40E-09
760	ALL	559771.56	4243067.75	2.39E-09	1.9YrCancerDerived_Inh	2.39E-09
393	ALL	559711.56	4242907.75	2.39E-09	1.9YrCancerDerived_Inh	2.39E-09
851	ALL	559791.56	4243107.75	2.39E-09	1.9YrCancerDerived_Inh	2.39E-09
1322	ALL	559931.56	4243327.75	2.38E-09	1.9YrCancerDerived_Inh	2.38E-09
863	ALL	559031.56	4243127.75	2.38E-09	1.9YrCancerDerived_Inh	2.38E-09
256	ALL	559691.56	4242847.75	2.36E-09	1.9YrCancerDerived_Inh	2.36E-09
1169	ALL	559031.56	4243267.75	2.36E-09	1.9YrCancerDerived_Inh	2.36E-09
1976	ALL	559171.56	4243627.75	2.36E-09	1.9YrCancerDerived_Inh	2.36E-09
818	ALL	559031.56	4243107.75	2.36E-09	1.9YrCancerDerived_Inh	2.36E-09
504	ALL	559131.56	4242967.75	2.35E-09	1.9YrCancerDerived_Inh	2.35E-09
1602	ALL	559111.56	4243467.75	2.35E-09	1.9YrCancerDerived_Inh	2.35E-09
101	ALL	559191.56	4242787.75	2.34E-09	1.9YrCancerDerived_Inh	2.34E-09
280	ALL	559171.56	4242867.75	2.34E-09	1.9YrCancerDerived_Inh	2.34E-09
415	ALL	559151.56	4242927.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
1417	ALL	559071.56	4243387.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
621	ALL	559751.56	4243007.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
593	ALL	559091.56	4243007.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
1509	ALL	559091.56	4243427.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
1328	ALL	559051.56	4243347.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
637	ALL	559071.56	4243027.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
773	ALL	559031.56	4243087.75	2.33E-09	1.9YrCancerDerived_Inh	2.33E-09
987	ALL	559831.56	4243167.75	2.32E-09	1.9YrCancerDerived_Inh	2.32E-09
1122	ALL	559871.56	4243227.75	2.32E-09	1.9YrCancerDerived_Inh	2.32E-09
1237	ALL	559911.56	4243287.75	2.32E-09	1.9YrCancerDerived_Inh	2.32E-09
682	ALL	559051.56	4243047.75	2.31E-09	1.9YrCancerDerived_Inh	2.31E-09
1204	ALL	559031.56	4243287.75	2.31E-09	1.9YrCancerDerived_Inh	2.31E-09
549	ALL	559111.56	4242987.75	2.31E-09	1.9YrCancerDerived_Inh	2.31E-09
484	ALL	559731.56	4242947.75	2.31E-09	1.9YrCancerDerived_Inh	2.31E-09
120	ALL	559671.56	4242787.75	2.31E-09	1.9YrCancerDerived_Inh	2.31E-09
1457	ALL	559971.56	4243387.75	2.31E-09	1.9YrCancerDerived_Inh	2.31E-09
347	ALL	559711.56	4242887.75	2.30E-09	1.9YrCancerDerived_Inh	2.30E-09
56	ALL	559191.56	4242767.75	2.28E-09	1.9YrCancerDerived_Inh	2.28E-09
1367	ALL	559951.56	4243347.75	2.28E-09	1.9YrCancerDerived_Inh	2.28E-09
714	ALL	559771.56	4243047.75	2.28E-09	1.9YrCancerDerived_Inh	2.28E-09
897	ALL	559811.56	4243127.75	2.27E-09	1.9YrCancerDerived_Inh	2.27E-09
235	ALL	559171.56	4242847.75	2.27E-09	1.9YrCancerDerived_Inh	2.27E-09
2023	ALL	559171.56	4243647.75	2.27E-09	1.9YrCancerDerived_Inh	2.27E-09
211	ALL	559691.56	4242827.75	2.27E-09	1.9YrCancerDerived_Inh	2.27E-09
727	ALL	559031.56	4243067.75	2.26E-09	1.9YrCancerDerived_Inh	2.26E-09
1243	ALL	559031.56	4243307.75	2.26E-09	1.9YrCancerDerived_Inh	2.26E-09
806	ALL	559791.56	4243087.75	2.26E-09	1.9YrCancerDerived_Inh	2.26E-09
1041	ALL	559011.56	4243207.75	2.25E-09	1.9YrCancerDerived_Inh	2.25E-09
996	ALL	559011.56	4243187.75	2.24E-09	1.9YrCancerDerived_Inh	2.24E-09
1162	ALL	559891.56	4243247.75	2.24E-09	1.9YrCancerDerived_Inh	2.24E-09
1033	ALL	559851.56	4243187.75	2.24E-09	1.9YrCancerDerived_Inh	2.24E-09
952	ALL	559011.56	4243167.75	2.24E-09	1.9YrCancerDerived_Inh	2.24E-09
369	ALL	559151.56	4242907.75	2.24E-09	1.9YrCancerDerived_Inh	2.24E-09
1279	ALL	559931.56	4243307.75	2.23E-09	1.9YrCancerDerived_Inh	2.23E-09
576	ALL	559751.56	4242987.75	2.23E-09	1.9YrCancerDerived_Inh	2.23E-09
1086	ALL	559011.56	4243227.75	2.23E-09	1.9YrCancerDerived_Inh	2.23E-09
11	ALL	559191.56	4242747.75	2.23E-09	1.9YrCancerDerived_Inh	2.23E-09
1648	ALL	559111.56	4243487.75	2.22E-09	1.9YrCancerDerived_Inh	2.22E-09
1372	ALL	559051.56	4243367.75	2.22E-09	1.9YrCancerDerived_Inh	2.22E-09
439	ALL	559731.56	4242927.75	2.22E-09	1.9YrCancerDerived_Inh	2.22E-09
190	ALL	559171.56	4242827.75	2.21E-09	1.9YrCancerDerived_Inh	2.21E-09
2071	ALL	559171.56	4243667.75	2.21E-09	1.9YrCancerDerived_Inh	2.21E-09
302	ALL	559711.56	4242867.75	2.21E-09	1.9YrCancerDerived_Inh	2.21E-09
1555	ALL	559091.56	4243447.75	2.21E-09	1.9YrCancerDerived_Inh	2.21E-09
459	ALL	559131.56	4242947.75	2.21E-09	1.9YrCancerDerived_Inh	2.21E-09
1462	ALL	559071.56	4243407.75	2.21E-09	1.9YrCancerDerived_Inh	2.21E-09
907	ALL	559011.56	4243147.75	2.20E-09	1.9YrCancerDerived_Inh	2.20E-09
1879	ALL	559151.56	4243587.75	2.20E-09	1.9YrCancerDerived_Inh	2.20E-09
1284	ALL	559031.56	4243327.75	2.19E-09	1.9YrCancerDerived_Inh	2.19E-09

1412	ALL	559971.56	4243367.75	2.19E-09	1.9YrCancerDerived_Inh	2.19E-09
1129	ALL	559011.56	4243247.75	2.18E-09	1.9YrCancerDerived_Inh	2.18E-09
166	ALL	559691.56	4242807.75	2.18E-09	1.9YrCancerDerived_Inh	2.18E-09
943	ALL	559831.56	4243147.75	2.18E-09	1.9YrCancerDerived_Inh	2.18E-09
636	ALL	559051.56	4243027.75	2.17E-09	1.9YrCancerDerived_Inh	2.17E-09
668	ALL	559771.56	4243027.75	2.17E-09	1.9YrCancerDerived_Inh	2.17E-09
1198	ALL	559911.56	4243267.75	2.17E-09	1.9YrCancerDerived_Inh	2.17E-09
862	ALL	559011.56	4243127.75	2.17E-09	1.9YrCancerDerived_Inh	2.17E-09
145	ALL	559171.56	4242807.75	2.16E-09	1.9YrCancerDerived_Inh	2.16E-09
592	ALL	559071.56	4243007.75	2.16E-09	1.9YrCancerDerived_Inh	2.16E-09
1079	ALL	559871.56	4243207.75	2.16E-09	1.9YrCancerDerived_Inh	2.16E-09
681	ALL	559031.56	4243047.75	2.16E-09	1.9YrCancerDerived_Inh	2.16E-09
324	ALL	559151.56	4242887.75	2.15E-09	1.9YrCancerDerived_Inh	2.15E-09
503	ALL	559111.56	4242967.75	2.15E-09	1.9YrCancerDerived_Inh	2.15E-09
1323	ALL	559951.56	4243327.75	2.15E-09	1.9YrCancerDerived_Inh	2.15E-09
817	ALL	559011.56	4243107.75	2.15E-09	1.9YrCancerDerived_Inh	2.15E-09
2119	ALL	559171.56	4243687.75	2.15E-09	1.9YrCancerDerived_Inh	2.15E-09
548	ALL	559091.56	4242987.75	2.15E-09	1.9YrCancerDerived_Inh	2.15E-09
531	ALL	559751.56	4242967.75	2.14E-09	1.9YrCancerDerived_Inh	2.14E-09
1168	ALL	559011.56	4243267.75	2.14E-09	1.9YrCancerDerived_Inh	2.14E-09
852	ALL	559811.56	4243107.75	2.14E-09	1.9YrCancerDerived_Inh	2.14E-09
761	ALL	559791.56	4243067.75	2.14E-09	1.9YrCancerDerived_Inh	2.14E-09
394	ALL	559731.56	4242907.75	2.14E-09	1.9YrCancerDerived_Inh	2.14E-09
772	ALL	559011.56	4243087.75	2.13E-09	1.9YrCancerDerived_Inh	2.13E-09
257	ALL	559711.56	4242847.75	2.12E-09	1.9YrCancerDerived_Inh	2.12E-09
1327	ALL	559031.56	4243347.75	2.12E-09	1.9YrCancerDerived_Inh	2.12E-09
1694	ALL	559111.56	4243507.75	2.12E-09	1.9YrCancerDerived_Inh	2.12E-09
100	ALL	559171.56	4242787.75	2.11E-09	1.9YrCancerDerived_Inh	2.11E-09
1927	ALL	559151.56	4243607.75	2.11E-09	1.9YrCancerDerived_Inh	2.11E-09
1416	ALL	559051.56	4243387.75	2.11E-09	1.9YrCancerDerived_Inh	2.11E-09
1203	ALL	559011.56	4243287.75	2.10E-09	1.9YrCancerDerived_Inh	2.10E-09
1601	ALL	559091.56	4243467.75	2.10E-09	1.9YrCancerDerived_Inh	2.10E-09
414	ALL	559131.56	4242927.75	2.10E-09	1.9YrCancerDerived_Inh	2.10E-09
1238	ALL	559931.56	4243287.75	2.10E-09	1.9YrCancerDerived_Inh	2.10E-09
988	ALL	559851.56	4243167.75	2.09E-09	1.9YrCancerDerived_Inh	2.09E-09
121	ALL	559691.56	4242787.75	2.09E-09	1.9YrCancerDerived_Inh	2.09E-09
1123	ALL	559891.56	4243227.75	2.09E-09	1.9YrCancerDerived_Inh	2.09E-09
2167	ALL	559171.56	4243707.75	2.09E-09	1.9YrCancerDerived_Inh	2.09E-09
1508	ALL	559071.56	4243427.75	2.09E-09	1.9YrCancerDerived_Inh	2.09E-09
726	ALL	559011.56	4243067.75	2.09E-09	1.9YrCancerDerived_Inh	2.09E-09
279	ALL	559151.56	4242867.75	2.09E-09	1.9YrCancerDerived_Inh	2.09E-09
622	ALL	559771.56	4243007.75	2.08E-09	1.9YrCancerDerived_Inh	2.08E-09
1368	ALL	559971.56	4243347.75	2.07E-09	1.9YrCancerDerived_Inh	2.07E-09
55	ALL	559171.56	4242767.75	2.07E-09	1.9YrCancerDerived_Inh	2.07E-09
485	ALL	559751.56	4242947.75	2.06E-09	1.9YrCancerDerived_Inh	2.06E-09
1040	ALL	558991.56	4243207.75	2.06E-09	1.9YrCancerDerived_Inh	2.06E-09
1242	ALL	559011.56	4243307.75	2.06E-09	1.9YrCancerDerived_Inh	2.06E-09
348	ALL	559731.56	4242887.75	2.06E-09	1.9YrCancerDerived_Inh	2.06E-09
995	ALL	558991.56	4243187.75	2.06E-09	1.9YrCancerDerived_Inh	2.06E-09
2215	ALL	559171.56	4243727.75	2.05E-09	1.9YrCancerDerived_Inh	2.05E-09
951	ALL	558991.56	4243167.75	2.05E-09	1.9YrCancerDerived_Inh	2.05E-09
898	ALL	559831.56	4243127.75	2.05E-09	1.9YrCancerDerived_Inh	2.05E-09
212	ALL	559711.56	4242827.75	2.04E-09	1.9YrCancerDerived_Inh	2.04E-09
635	ALL	559031.56	4243027.75	2.04E-09	1.9YrCancerDerived_Inh	2.04E-09
1975	ALL	559151.56	4243627.75	2.04E-09	1.9YrCancerDerived_Inh	2.04E-09
715	ALL	559791.56	4243047.75	2.03E-09	1.9YrCancerDerived_Inh	2.03E-09
1085	ALL	558991.56	4243227.75	2.03E-09	1.9YrCancerDerived_Inh	2.03E-09
234	ALL	559151.56	4242847.75	2.03E-09	1.9YrCancerDerived_Inh	2.03E-09
906	ALL	558991.56	4243147.75	2.03E-09	1.9YrCancerDerived_Inh	2.03E-09
1163	ALL	559911.56	4243247.75	2.03E-09	1.9YrCancerDerived_Inh	2.03E-09
591	ALL	559051.56	4243007.75	2.03E-09	1.9YrCancerDerived_Inh	2.03E-09
807	ALL	559811.56	4243087.75	2.03E-09	1.9YrCancerDerived_Inh	2.03E-09
1280	ALL	559951.56	4243307.75	2.02E-09	1.9YrCancerDerived_Inh	2.02E-09
680	ALL	559011.56	4243047.75	2.02E-09	1.9YrCancerDerived_Inh	2.02E-09
458	ALL	559111.56	4242947.75	2.02E-09	1.9YrCancerDerived_Inh	2.02E-09
1034	ALL	559871.56	4243187.75	2.02E-09	1.9YrCancerDerived_Inh	2.02E-09
1371	ALL	559031.56	4243367.75	2.02E-09	1.9YrCancerDerived_Inh	2.02E-09
76	ALL	559691.56	4242767.75	2.01E-09	1.9YrCancerDerived_Inh	2.01E-09
368	ALL	559131.56	4242907.75	2.01E-09	1.9YrCancerDerived_Inh	2.01E-09
10	ALL	559171.56	4242747.75	2.01E-09	1.9YrCancerDerived_Inh	2.01E-09
547	ALL	559071.56	4242987.75	2.01E-09	1.9YrCancerDerived_Inh	2.01E-09
1283	ALL	559011.56	4243327.75	2.00E-09	1.9YrCancerDerived_Inh	2.00E-09
502	ALL	559091.56	4242967.75	2.00E-09	1.9YrCancerDerived_Inh	2.00E-09
861	ALL	558991.56	4243127.75	2.00E-09	1.9YrCancerDerived_Inh	2.00E-09

577	ALL	559771.56	4242987.75	1.99E-09	1.9YrCancerDerived_Inh	1.99E-09
1128	ALL	558991.56	4243247.75	1.99E-09	1.9YrCancerDerived_Inh	1.99E-09
1647	ALL	559091.56	4243487.75	1.99E-09	1.9YrCancerDerived_Inh	1.99E-09
1461	ALL	559051.56	4243407.75	1.99E-09	1.9YrCancerDerived_Inh	1.99E-09
189	ALL	559151.56	4242827.75	1.99E-09	1.9YrCancerDerived_Inh	1.99E-09
1554	ALL	559071.56	4243447.75	1.99E-09	1.9YrCancerDerived_Inh	1.99E-09
440	ALL	559751.56	4242927.75	1.98E-09	1.9YrCancerDerived_Inh	1.98E-09
303	ALL	559731.56	4242867.75	1.98E-09	1.9YrCancerDerived_Inh	1.98E-09
816	ALL	558991.56	4243107.75	1.97E-09	1.9YrCancerDerived_Inh	1.97E-09
167	ALL	559711.56	4242807.75	1.97E-09	1.9YrCancerDerived_Inh	1.97E-09
1199	ALL	559931.56	4243267.75	1.97E-09	1.9YrCancerDerived_Inh	1.97E-09
944	ALL	559851.56	4243147.75	1.97E-09	1.9YrCancerDerived_Inh	1.97E-09
2022	ALL	559151.56	4243647.75	1.96E-09	1.9YrCancerDerived_Inh	1.96E-09
1080	ALL	559891.56	4243207.75	1.96E-09	1.9YrCancerDerived_Inh	1.96E-09
771	ALL	558991.56	4243087.75	1.95E-09	1.9YrCancerDerived_Inh	1.95E-09
1324	ALL	559971.56	4243327.75	1.95E-09	1.9YrCancerDerived_Inh	1.95E-09
1167	ALL	558991.56	4243267.75	1.95E-09	1.9YrCancerDerived_Inh	1.95E-09
669	ALL	559791.56	4243027.75	1.94E-09	1.9YrCancerDerived_Inh	1.94E-09
144	ALL	559151.56	4242807.75	1.94E-09	1.9YrCancerDerived_Inh	1.94E-09
323	ALL	559131.56	4242887.75	1.94E-09	1.9YrCancerDerived_Inh	1.94E-09
634	ALL	559011.56	4243027.75	1.93E-09	1.9YrCancerDerived_Inh	1.93E-09
853	ALL	559831.56	4243107.75	1.93E-09	1.9YrCancerDerived_Inh	1.93E-09
725	ALL	558991.56	4243067.75	1.93E-09	1.9YrCancerDerived_Inh	1.93E-09
1326	ALL	559011.56	4243347.75	1.93E-09	1.9YrCancerDerived_Inh	1.93E-09
762	ALL	559811.56	4243067.75	1.92E-09	1.9YrCancerDerived_Inh	1.92E-09
532	ALL	559771.56	4242967.75	1.92E-09	1.9YrCancerDerived_Inh	1.92E-09
590	ALL	559031.56	4243007.75	1.92E-09	1.9YrCancerDerived_Inh	1.92E-09
1202	ALL	558991.56	4243287.75	1.92E-09	1.9YrCancerDerived_Inh	1.92E-09
395	ALL	559751.56	4242907.75	1.92E-09	1.9YrCancerDerived_Inh	1.92E-09
413	ALL	559111.56	4242927.75	1.91E-09	1.9YrCancerDerived_Inh	1.91E-09
258	ALL	559731.56	4242847.75	1.91E-09	1.9YrCancerDerived_Inh	1.91E-09
1415	ALL	559031.56	4243387.75	1.91E-09	1.9YrCancerDerived_Inh	1.91E-09
1239	ALL	559951.56	4243287.75	1.90E-09	1.9YrCancerDerived_Inh	1.90E-09
2070	ALL	559151.56	4243667.75	1.90E-09	1.9YrCancerDerived_Inh	1.90E-09
1124	ALL	559911.56	4243227.75	1.90E-09	1.9YrCancerDerived_Inh	1.90E-09
122	ALL	559711.56	4242787.75	1.90E-09	1.9YrCancerDerived_Inh	1.90E-09
1693	ALL	559091.56	4243507.75	1.90E-09	1.9YrCancerDerived_Inh	1.90E-09
99	ALL	559151.56	4242787.75	1.90E-09	1.9YrCancerDerived_Inh	1.90E-09
989	ALL	559871.56	4243167.75	1.90E-09	1.9YrCancerDerived_Inh	1.90E-09
1600	ALL	559071.56	4243467.75	1.89E-09	1.9YrCancerDerived_Inh	1.89E-09
546	ALL	559051.56	4242987.75	1.89E-09	1.9YrCancerDerived_Inh	1.89E-09
1507	ALL	559051.56	4243427.75	1.89E-09	1.9YrCancerDerived_Inh	1.89E-09
1241	ALL	558991.56	4243307.75	1.88E-09	1.9YrCancerDerived_Inh	1.88E-09
679	ALL	558991.56	4243047.75	1.88E-09	1.9YrCancerDerived_Inh	1.88E-09
278	ALL	559131.56	4242867.75	1.88E-09	1.9YrCancerDerived_Inh	1.88E-09
501	ALL	559071.56	4242967.75	1.87E-09	1.9YrCancerDerived_Inh	1.87E-09
457	ALL	559091.56	4242947.75	1.87E-09	1.9YrCancerDerived_Inh	1.87E-09
623	ALL	559791.56	4243007.75	1.86E-09	1.9YrCancerDerived_Inh	1.86E-09
54	ALL	559151.56	4242767.75	1.86E-09	1.9YrCancerDerived_Inh	1.86E-09
899	ALL	559851.56	4243127.75	1.85E-09	1.9YrCancerDerived_Inh	1.85E-09
2118	ALL	559151.56	4243687.75	1.85E-09	1.9YrCancerDerived_Inh	1.85E-09
349	ALL	559751.56	4242887.75	1.85E-09	1.9YrCancerDerived_Inh	1.85E-09
486	ALL	559771.56	4242947.75	1.85E-09	1.9YrCancerDerived_Inh	1.85E-09
213	ALL	559731.56	4242827.75	1.85E-09	1.9YrCancerDerived_Inh	1.85E-09
1164	ALL	559931.56	4243247.75	1.84E-09	1.9YrCancerDerived_Inh	1.84E-09
1281	ALL	559971.56	4243307.75	1.84E-09	1.9YrCancerDerived_Inh	1.84E-09
1370	ALL	559011.56	4243367.75	1.84E-09	1.9YrCancerDerived_Inh	1.84E-09
1035	ALL	559891.56	4243187.75	1.84E-09	1.9YrCancerDerived_Inh	1.84E-09
77	ALL	559711.56	4242767.75	1.83E-09	1.9YrCancerDerived_Inh	1.83E-09
716	ALL	559811.56	4243047.75	1.83E-09	1.9YrCancerDerived_Inh	1.83E-09
1282	ALL	558991.56	4243327.75	1.83E-09	1.9YrCancerDerived_Inh	1.83E-09
233	ALL	559131.56	4242847.75	1.83E-09	1.9YrCancerDerived_Inh	1.83E-09
808	ALL	559831.56	4243087.75	1.83E-09	1.9YrCancerDerived_Inh	1.83E-09
367	ALL	559111.56	4242907.75	1.83E-09	1.9YrCancerDerived_Inh	1.83E-09
589	ALL	559011.56	4243007.75	1.83E-09	1.9YrCancerDerived_Inh	1.83E-09
1831	ALL	559111.56	4243567.75	1.82E-09	1.9YrCancerDerived_Inh	1.82E-09
9	ALL	559151.56	4242747.75	1.82E-09	1.9YrCancerDerived_Inh	1.82E-09
1739	ALL	559091.56	4243527.75	1.81E-09	1.9YrCancerDerived_Inh	1.81E-09
2166	ALL	559151.56	4243707.75	1.81E-09	1.9YrCancerDerived_Inh	1.81E-09
633	ALL	558991.56	4243027.75	1.81E-09	1.9YrCancerDerived_Inh	1.81E-09
1460	ALL	559031.56	4243407.75	1.81E-09	1.9YrCancerDerived_Inh	1.81E-09
1646	ALL	559071.56	4243487.75	1.80E-09	1.9YrCancerDerived_Inh	1.80E-09
1553	ALL	559051.56	4243447.75	1.80E-09	1.9YrCancerDerived_Inh	1.80E-09
545	ALL	559031.56	4242987.75	1.79E-09	1.9YrCancerDerived_Inh	1.79E-09

578	ALL	559791.56	4242987.75	1.79E-09	1.9YrCancerDerived_Inh	1.79E-09
1200	ALL	559951.56	4243267.75	1.79E-09	1.9YrCancerDerived_Inh	1.79E-09
1974	ALL	559131.56	4243627.75	1.79E-09	1.9YrCancerDerived_Inh	1.79E-09
304	ALL	559751.56	4242867.75	1.79E-09	1.9YrCancerDerived_Inh	1.79E-09
168	ALL	559731.56	4242807.75	1.79E-09	1.9YrCancerDerived_Inh	1.79E-09
441	ALL	559771.56	4242927.75	1.78E-09	1.9YrCancerDerived_Inh	1.78E-09
945	ALL	559871.56	4243147.75	1.78E-09	1.9YrCancerDerived_Inh	1.78E-09
188	ALL	559131.56	4242827.75	1.78E-09	1.9YrCancerDerived_Inh	1.78E-09
1081	ALL	559911.56	4243207.75	1.78E-09	1.9YrCancerDerived_Inh	1.78E-09
2214	ALL	559151.56	4243727.75	1.77E-09	1.9YrCancerDerived_Inh	1.77E-09
32	ALL	559711.56	4242747.75	1.77E-09	1.9YrCancerDerived_Inh	1.77E-09
1325	ALL	558991.56	4243347.75	1.77E-09	1.9YrCancerDerived_Inh	1.77E-09
412	ALL	559091.56	4242927.75	1.77E-09	1.9YrCancerDerived_Inh	1.77E-09
500	ALL	559051.56	4242967.75	1.76E-09	1.9YrCancerDerived_Inh	1.76E-09
322	ALL	559111.56	4242887.75	1.76E-09	1.9YrCancerDerived_Inh	1.76E-09
670	ALL	559811.56	4243027.75	1.75E-09	1.9YrCancerDerived_Inh	1.75E-09
456	ALL	559071.56	4242947.75	1.75E-09	1.9YrCancerDerived_Inh	1.75E-09
854	ALL	559851.56	4243107.75	1.75E-09	1.9YrCancerDerived_Inh	1.75E-09
1414	ALL	559011.56	4243387.75	1.75E-09	1.9YrCancerDerived_Inh	1.75E-09
143	ALL	559131.56	4242807.75	1.74E-09	1.9YrCancerDerived_Inh	1.74E-09
763	ALL	559831.56	4243067.75	1.74E-09	1.9YrCancerDerived_Inh	1.74E-09
1240	ALL	559971.56	4243287.75	1.74E-09	1.9YrCancerDerived_Inh	1.74E-09
1125	ALL	559931.56	4243227.75	1.73E-09	1.9YrCancerDerived_Inh	1.73E-09
259	ALL	559751.56	4242847.75	1.73E-09	1.9YrCancerDerived_Inh	1.73E-09
123	ALL	559731.56	4242787.75	1.73E-09	1.9YrCancerDerived_Inh	1.73E-09
533	ALL	559791.56	4242967.75	1.73E-09	1.9YrCancerDerived_Inh	1.73E-09
2021	ALL	559131.56	4243647.75	1.73E-09	1.9YrCancerDerived_Inh	1.73E-09
396	ALL	559771.56	4242907.75	1.73E-09	1.9YrCancerDerived_Inh	1.73E-09
990	ALL	559891.56	4243167.75	1.73E-09	1.9YrCancerDerived_Inh	1.73E-09
588	ALL	558991.56	4243007.75	1.72E-09	1.9YrCancerDerived_Inh	1.72E-09
1506	ALL	559031.56	4243427.75	1.72E-09	1.9YrCancerDerived_Inh	1.72E-09
1692	ALL	559071.56	4243507.75	1.72E-09	1.9YrCancerDerived_Inh	1.72E-09
1599	ALL	559051.56	4243467.75	1.72E-09	1.9YrCancerDerived_Inh	1.72E-09
544	ALL	559011.56	4242987.75	1.71E-09	1.9YrCancerDerived_Inh	1.71E-09
277	ALL	559111.56	4242867.75	1.70E-09	1.9YrCancerDerived_Inh	1.70E-09
98	ALL	559131.56	4242787.75	1.70E-09	1.9YrCancerDerived_Inh	1.70E-09
1369	ALL	558991.56	4243367.75	1.69E-09	1.9YrCancerDerived_Inh	1.69E-09
1165	ALL	559951.56	4243247.75	1.69E-09	1.9YrCancerDerived_Inh	1.69E-09
900	ALL	559871.56	4243127.75	1.68E-09	1.9YrCancerDerived_Inh	1.68E-09
624	ALL	559811.56	4243007.75	1.68E-09	1.9YrCancerDerived_Inh	1.68E-09
366	ALL	559091.56	4242907.75	1.68E-09	1.9YrCancerDerived_Inh	1.68E-09
214	ALL	559751.56	4242827.75	1.68E-09	1.9YrCancerDerived_Inh	1.68E-09
1036	ALL	559911.56	4243187.75	1.68E-09	1.9YrCancerDerived_Inh	1.68E-09
499	ALL	559031.56	4242967.75	1.67E-09	1.9YrCancerDerived_Inh	1.67E-09
78	ALL	559731.56	4242767.75	1.67E-09	1.9YrCancerDerived_Inh	1.67E-09
350	ALL	559771.56	4242887.75	1.67E-09	1.9YrCancerDerived_Inh	1.67E-09
53	ALL	559131.56	4242767.75	1.67E-09	1.9YrCancerDerived_Inh	1.67E-09
487	ALL	559791.56	4242947.75	1.67E-09	1.9YrCancerDerived_Inh	1.67E-09
2069	ALL	559131.56	4243667.75	1.66E-09	1.9YrCancerDerived_Inh	1.66E-09
809	ALL	559851.56	4243087.75	1.66E-09	1.9YrCancerDerived_Inh	1.66E-09
717	ALL	559831.56	4243047.75	1.66E-09	1.9YrCancerDerived_Inh	1.66E-09
1830	ALL	559091.56	4243567.75	1.66E-09	1.9YrCancerDerived_Inh	1.66E-09
1459	ALL	559011.56	4243407.75	1.66E-09	1.9YrCancerDerived_Inh	1.66E-09
8	ALL	559131.56	4242747.75	1.65E-09	1.9YrCancerDerived_Inh	1.65E-09
232	ALL	559111.56	4242847.75	1.65E-09	1.9YrCancerDerived_Inh	1.65E-09
455	ALL	559051.56	4242947.75	1.65E-09	1.9YrCancerDerived_Inh	1.65E-09
411	ALL	559071.56	4242927.75	1.65E-09	1.9YrCancerDerived_Inh	1.65E-09
1738	ALL	559071.56	4243527.75	1.65E-09	1.9YrCancerDerived_Inh	1.65E-09
1645	ALL	559051.56	4243487.75	1.64E-09	1.9YrCancerDerived_Inh	1.64E-09
1201	ALL	559971.56	4243267.75	1.64E-09	1.9YrCancerDerived_Inh	1.64E-09
1552	ALL	559031.56	4243447.75	1.64E-09	1.9YrCancerDerived_Inh	1.64E-09
543	ALL	558991.56	4242987.75	1.63E-09	1.9YrCancerDerived_Inh	1.63E-09
1082	ALL	559931.56	4243207.75	1.63E-09	1.9YrCancerDerived_Inh	1.63E-09
946	ALL	559891.56	4243147.75	1.63E-09	1.9YrCancerDerived_Inh	1.63E-09
169	ALL	559751.56	4242807.75	1.62E-09	1.9YrCancerDerived_Inh	1.62E-09
579	ALL	559811.56	4242987.75	1.62E-09	1.9YrCancerDerived_Inh	1.62E-09
33	ALL	559731.56	4242747.75	1.62E-09	1.9YrCancerDerived_Inh	1.62E-09
305	ALL	559771.56	4242867.75	1.62E-09	1.9YrCancerDerived_Inh	1.62E-09
2117	ALL	559131.56	4243687.75	1.62E-09	1.9YrCancerDerived_Inh	1.62E-09
442	ALL	559791.56	4242927.75	1.61E-09	1.9YrCancerDerived_Inh	1.61E-09
321	ALL	559091.56	4242887.75	1.61E-09	1.9YrCancerDerived_Inh	1.61E-09
1413	ALL	558991.56	4243387.75	1.61E-09	1.9YrCancerDerived_Inh	1.61E-09
187	ALL	559111.56	4242827.75	1.60E-09	1.9YrCancerDerived_Inh	1.60E-09
855	ALL	559871.56	4243107.75	1.60E-09	1.9YrCancerDerived_Inh	1.60E-09

671	ALL	559831.56	4243027.75	1.59E-09	1.9YrCancerDerived_Inh	1.59E-09
498	ALL	559011.56	4242967.75	1.59E-09	1.9YrCancerDerived_Inh	1.59E-09
1126	ALL	559951.56	4243227.75	1.59E-09	1.9YrCancerDerived_Inh	1.59E-09
764	ALL	559851.56	4243067.75	1.58E-09	1.9YrCancerDerived_Inh	1.58E-09
2165	ALL	559131.56	4243707.75	1.58E-09	1.9YrCancerDerived_Inh	1.58E-09
991	ALL	559911.56	4243167.75	1.58E-09	1.9YrCancerDerived_Inh	1.58E-09
1878	ALL	559091.56	4243587.75	1.58E-09	1.9YrCancerDerived_Inh	1.58E-09
1784	ALL	559071.56	4243547.75	1.58E-09	1.9YrCancerDerived_Inh	1.58E-09
1505	ALL	559011.56	4243427.75	1.57E-09	1.9YrCancerDerived_Inh	1.57E-09
124	ALL	559751.56	4242787.75	1.57E-09	1.9YrCancerDerived_Inh	1.57E-09
260	ALL	559771.56	4242847.75	1.57E-09	1.9YrCancerDerived_Inh	1.57E-09
1691	ALL	559051.56	4243507.75	1.57E-09	1.9YrCancerDerived_Inh	1.57E-09
534	ALL	559811.56	4242967.75	1.56E-09	1.9YrCancerDerived_Inh	1.56E-09
397	ALL	559791.56	4242907.75	1.56E-09	1.9YrCancerDerived_Inh	1.56E-09
142	ALL	559111.56	4242807.75	1.56E-09	1.9YrCancerDerived_Inh	1.56E-09
365	ALL	559071.56	4242907.75	1.56E-09	1.9YrCancerDerived_Inh	1.56E-09
1598	ALL	559031.56	4243467.75	1.56E-09	1.9YrCancerDerived_Inh	1.56E-09
454	ALL	559031.56	4242947.75	1.56E-09	1.9YrCancerDerived_Inh	1.56E-09
2213	ALL	559131.56	4243727.75	1.55E-09	1.9YrCancerDerived_Inh	1.55E-09
276	ALL	559091.56	4242867.75	1.55E-09	1.9YrCancerDerived_Inh	1.55E-09
1166	ALL	559971.56	4243247.75	1.55E-09	1.9YrCancerDerived_Inh	1.55E-09
410	ALL	559051.56	4242927.75	1.55E-09	1.9YrCancerDerived_Inh	1.55E-09
901	ALL	559891.56	4243127.75	1.54E-09	1.9YrCancerDerived_Inh	1.54E-09
97	ALL	559111.56	4242787.75	1.54E-09	1.9YrCancerDerived_Inh	1.54E-09
1037	ALL	559931.56	4243187.75	1.54E-09	1.9YrCancerDerived_Inh	1.54E-09
625	ALL	559831.56	4243007.75	1.53E-09	1.9YrCancerDerived_Inh	1.53E-09
79	ALL	559751.56	4242767.75	1.53E-09	1.9YrCancerDerived_Inh	1.53E-09
1458	ALL	558991.56	4243407.75	1.53E-09	1.9YrCancerDerived_Inh	1.53E-09
215	ALL	559771.56	4242827.75	1.52E-09	1.9YrCancerDerived_Inh	1.52E-09
497	ALL	558991.56	4242967.75	1.52E-09	1.9YrCancerDerived_Inh	1.52E-09
810	ALL	559871.56	4243087.75	1.52E-09	1.9YrCancerDerived_Inh	1.52E-09
351	ALL	559791.56	4242887.75	1.52E-09	1.9YrCancerDerived_Inh	1.52E-09
1926	ALL	559091.56	4243607.75	1.52E-09	1.9YrCancerDerived_Inh	1.52E-09
52	ALL	559111.56	4242767.75	1.52E-09	1.9YrCancerDerived_Inh	1.52E-09
718	ALL	559851.56	4243047.75	1.51E-09	1.9YrCancerDerived_Inh	1.51E-09
488	ALL	559811.56	4242947.75	1.51E-09	1.9YrCancerDerived_Inh	1.51E-09
1829	ALL	559071.56	4243567.75	1.51E-09	1.9YrCancerDerived_Inh	1.51E-09
1737	ALL	559051.56	4243527.75	1.50E-09	1.9YrCancerDerived_Inh	1.50E-09
1551	ALL	559011.56	4243447.75	1.50E-09	1.9YrCancerDerived_Inh	1.50E-09
1083	ALL	559951.56	4243207.75	1.50E-09	1.9YrCancerDerived_Inh	1.50E-09
1644	ALL	559031.56	4243487.75	1.50E-09	1.9YrCancerDerived_Inh	1.50E-09
947	ALL	559911.56	4243147.75	1.49E-09	1.9YrCancerDerived_Inh	1.49E-09
231	ALL	559091.56	4242847.75	1.49E-09	1.9YrCancerDerived_Inh	1.49E-09
7	ALL	559111.56	4242747.75	1.49E-09	1.9YrCancerDerived_Inh	1.49E-09
2068	ALL	559111.56	4243667.75	1.49E-09	1.9YrCancerDerived_Inh	1.49E-09
320	ALL	559071.56	4242887.75	1.48E-09	1.9YrCancerDerived_Inh	1.48E-09
453	ALL	559011.56	4242947.75	1.48E-09	1.9YrCancerDerived_Inh	1.48E-09
34	ALL	559751.56	4242747.75	1.48E-09	1.9YrCancerDerived_Inh	1.48E-09
170	ALL	559771.56	4242807.75	1.48E-09	1.9YrCancerDerived_Inh	1.48E-09
580	ALL	559831.56	4242987.75	1.48E-09	1.9YrCancerDerived_Inh	1.48E-09
306	ALL	559791.56	4242867.75	1.47E-09	1.9YrCancerDerived_Inh	1.47E-09
443	ALL	559811.56	4242927.75	1.47E-09	1.9YrCancerDerived_Inh	1.47E-09
856	ALL	559891.56	4243107.75	1.46E-09	1.9YrCancerDerived_Inh	1.46E-09
1127	ALL	559971.56	4243227.75	1.46E-09	1.9YrCancerDerived_Inh	1.46E-09
364	ALL	559051.56	4242907.75	1.46E-09	1.9YrCancerDerived_Inh	1.46E-09
1877	ALL	559071.56	4243587.75	1.45E-09	1.9YrCancerDerived_Inh	1.45E-09
672	ALL	559851.56	4243027.75	1.45E-09	1.9YrCancerDerived_Inh	1.45E-09
992	ALL	559931.56	4243167.75	1.45E-09	1.9YrCancerDerived_Inh	1.45E-09
409	ALL	559031.56	4242927.75	1.45E-09	1.9YrCancerDerived_Inh	1.45E-09
1504	ALL	558991.56	4243427.75	1.45E-09	1.9YrCancerDerived_Inh	1.45E-09
186	ALL	559091.56	4242827.75	1.45E-09	1.9YrCancerDerived_Inh	1.45E-09
765	ALL	559871.56	4243067.75	1.45E-09	1.9YrCancerDerived_Inh	1.45E-09
1783	ALL	559051.56	4243547.75	1.44E-09	1.9YrCancerDerived_Inh	1.44E-09
2116	ALL	559111.56	4243687.75	1.44E-09	1.9YrCancerDerived_Inh	1.44E-09
125	ALL	559771.56	4242787.75	1.44E-09	1.9YrCancerDerived_Inh	1.44E-09
1690	ALL	559031.56	4243507.75	1.44E-09	1.9YrCancerDerived_Inh	1.44E-09
261	ALL	559791.56	4242847.75	1.43E-09	1.9YrCancerDerived_Inh	1.43E-09
1597	ALL	559011.56	4243467.75	1.43E-09	1.9YrCancerDerived_Inh	1.43E-09
535	ALL	559831.56	4242967.75	1.43E-09	1.9YrCancerDerived_Inh	1.43E-09
398	ALL	559811.56	4242907.75	1.42E-09	1.9YrCancerDerived_Inh	1.42E-09
141	ALL	559091.56	4242807.75	1.42E-09	1.9YrCancerDerived_Inh	1.42E-09
275	ALL	559071.56	4242867.75	1.42E-09	1.9YrCancerDerived_Inh	1.42E-09
452	ALL	558991.56	4242947.75	1.42E-09	1.9YrCancerDerived_Inh	1.42E-09
902	ALL	559911.56	4243127.75	1.41E-09	1.9YrCancerDerived_Inh	1.41E-09

1038	ALL	559951.56	4243187.75	1.41E-09	1.9YrCancerDerived_Inh	1.41E-09
2164	ALL	559111.56	4243707.75	1.40E-09	1.9YrCancerDerived_Inh	1.40E-09
96	ALL	559091.56	4242787.75	1.40E-09	1.9YrCancerDerived_Inh	1.40E-09
80	ALL	559771.56	4242767.75	1.40E-09	1.9YrCancerDerived_Inh	1.40E-09
626	ALL	559851.56	4243007.75	1.40E-09	1.9YrCancerDerived_Inh	1.40E-09
811	ALL	559891.56	4243087.75	1.39E-09	1.9YrCancerDerived_Inh	1.39E-09
216	ALL	559791.56	4242827.75	1.39E-09	1.9YrCancerDerived_Inh	1.39E-09
719	ALL	559871.56	4243047.75	1.39E-09	1.9YrCancerDerived_Inh	1.39E-09
1828	ALL	559051.56	4243567.75	1.39E-09	1.9YrCancerDerived_Inh	1.39E-09
1925	ALL	559071.56	4243607.75	1.39E-09	1.9YrCancerDerived_Inh	1.39E-09
352	ALL	559811.56	4242887.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
408	ALL	559011.56	4242927.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
1736	ALL	559031.56	4243527.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
319	ALL	559051.56	4242887.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
489	ALL	559831.56	4242947.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
1084	ALL	559971.56	4243207.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
1550	ALL	558991.56	4243447.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
363	ALL	559031.56	4242907.75	1.38E-09	1.9YrCancerDerived_Inh	1.38E-09
948	ALL	559931.56	4243147.75	1.37E-09	1.9YrCancerDerived_Inh	1.37E-09
51	ALL	559091.56	4242767.75	1.37E-09	1.9YrCancerDerived_Inh	1.37E-09
1643	ALL	559011.56	4243487.75	1.37E-09	1.9YrCancerDerived_Inh	1.37E-09
2212	ALL	559111.56	4243727.75	1.37E-09	1.9YrCancerDerived_Inh	1.37E-09
230	ALL	559071.56	4242847.75	1.37E-09	1.9YrCancerDerived_Inh	1.37E-09
35	ALL	559771.56	4242747.75	1.36E-09	1.9YrCancerDerived_Inh	1.36E-09
171	ALL	559791.56	4242807.75	1.36E-09	1.9YrCancerDerived_Inh	1.36E-09
6	ALL	559091.56	4242747.75	1.35E-09	1.9YrCancerDerived_Inh	1.35E-09
581	ALL	559851.56	4242987.75	1.35E-09	1.9YrCancerDerived_Inh	1.35E-09
307	ALL	559811.56	4242867.75	1.35E-09	1.9YrCancerDerived_Inh	1.35E-09
857	ALL	559911.56	4243107.75	1.34E-09	1.9YrCancerDerived_Inh	1.34E-09
444	ALL	559831.56	4242927.75	1.34E-09	1.9YrCancerDerived_Inh	1.34E-09
993	ALL	559951.56	4243167.75	1.34E-09	1.9YrCancerDerived_Inh	1.34E-09
185	ALL	559071.56	4242827.75	1.33E-09	1.9YrCancerDerived_Inh	1.33E-09
673	ALL	559871.56	4243027.75	1.33E-09	1.9YrCancerDerived_Inh	1.33E-09
766	ALL	559891.56	4243067.75	1.33E-09	1.9YrCancerDerived_Inh	1.33E-09
1973	ALL	559071.56	4243627.75	1.33E-09	1.9YrCancerDerived_Inh	1.33E-09
407	ALL	558991.56	4242927.75	1.33E-09	1.9YrCancerDerived_Inh	1.33E-09
1876	ALL	559051.56	4243587.75	1.33E-09	1.9YrCancerDerived_Inh	1.33E-09
1782	ALL	559031.56	4243547.75	1.33E-09	1.9YrCancerDerived_Inh	1.33E-09
1689	ALL	559011.56	4243507.75	1.32E-09	1.9YrCancerDerived_Inh	1.32E-09
274	ALL	559051.56	4242867.75	1.32E-09	1.9YrCancerDerived_Inh	1.32E-09
126	ALL	559791.56	4242787.75	1.32E-09	1.9YrCancerDerived_Inh	1.32E-09
1596	ALL	558991.56	4243467.75	1.32E-09	1.9YrCancerDerived_Inh	1.32E-09
262	ALL	559811.56	4242847.75	1.31E-09	1.9YrCancerDerived_Inh	1.31E-09
2115	ALL	559091.56	4243687.75	1.31E-09	1.9YrCancerDerived_Inh	1.31E-09
1039	ALL	559971.56	4243187.75	1.31E-09	1.9YrCancerDerived_Inh	1.31E-09
140	ALL	559071.56	4242807.75	1.31E-09	1.9YrCancerDerived_Inh	1.31E-09
536	ALL	559851.56	4242967.75	1.30E-09	1.9YrCancerDerived_Inh	1.30E-09
903	ALL	559931.56	4243127.75	1.30E-09	1.9YrCancerDerived_Inh	1.30E-09
399	ALL	559831.56	4242907.75	1.30E-09	1.9YrCancerDerived_Inh	1.30E-09
318	ALL	559031.56	4242887.75	1.30E-09	1.9YrCancerDerived_Inh	1.30E-09
362	ALL	559011.56	4242907.75	1.30E-09	1.9YrCancerDerived_Inh	1.30E-09
81	ALL	559791.56	4242767.75	1.29E-09	1.9YrCancerDerived_Inh	1.29E-09
812	ALL	559911.56	4243087.75	1.28E-09	1.9YrCancerDerived_Inh	1.28E-09
627	ALL	559871.56	4243007.75	1.28E-09	1.9YrCancerDerived_Inh	1.28E-09
95	ALL	559071.56	4242787.75	1.28E-09	1.9YrCancerDerived_Inh	1.28E-09
1924	ALL	559051.56	4243607.75	1.28E-09	1.9YrCancerDerived_Inh	1.28E-09
1827	ALL	559031.56	4243567.75	1.28E-09	1.9YrCancerDerived_Inh	1.28E-09
217	ALL	559811.56	4242827.75	1.28E-09	1.9YrCancerDerived_Inh	1.28E-09
720	ALL	559891.56	4243047.75	1.28E-09	1.9YrCancerDerived_Inh	1.28E-09
229	ALL	559051.56	4242847.75	1.27E-09	1.9YrCancerDerived_Inh	1.27E-09
1735	ALL	559011.56	4243527.75	1.27E-09	1.9YrCancerDerived_Inh	1.27E-09
949	ALL	559951.56	4243147.75	1.27E-09	1.9YrCancerDerived_Inh	1.27E-09
353	ALL	559831.56	4242887.75	1.27E-09	1.9YrCancerDerived_Inh	1.27E-09
2163	ALL	559091.56	4243707.75	1.27E-09	1.9YrCancerDerived_Inh	1.27E-09
490	ALL	559851.56	4242947.75	1.27E-09	1.9YrCancerDerived_Inh	1.27E-09
1642	ALL	558991.56	4243487.75	1.26E-09	1.9YrCancerDerived_Inh	1.26E-09
36	ALL	559791.56	4242747.75	1.25E-09	1.9YrCancerDerived_Inh	1.25E-09
50	ALL	559071.56	4242767.75	1.25E-09	1.9YrCancerDerived_Inh	1.25E-09
361	ALL	558991.56	4242907.75	1.25E-09	1.9YrCancerDerived_Inh	1.25E-09
172	ALL	559811.56	4242807.75	1.24E-09	1.9YrCancerDerived_Inh	1.24E-09
858	ALL	559931.56	4243107.75	1.24E-09	1.9YrCancerDerived_Inh	1.24E-09
582	ALL	559871.56	4242987.75	1.24E-09	1.9YrCancerDerived_Inh	1.24E-09
994	ALL	559971.56	4243167.75	1.24E-09	1.9YrCancerDerived_Inh	1.24E-09
273	ALL	559031.56	4242867.75	1.24E-09	1.9YrCancerDerived_Inh	1.24E-09

5	ALL	559071.56	4242747.75	1.24E-09	1.9YrCancerDerived_Inh	1.24E-09
317	ALL	559011.56	4242887.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
1972	ALL	559051.56	4243627.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
308	ALL	559831.56	4242867.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
184	ALL	559051.56	4242827.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
2211	ALL	559091.56	4243727.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
445	ALL	559851.56	4242927.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
1875	ALL	559031.56	4243587.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
767	ALL	559911.56	4243067.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
674	ALL	559891.56	4243027.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
1781	ALL	559011.56	4243547.75	1.23E-09	1.9YrCancerDerived_Inh	1.23E-09
1688	ALL	558991.56	4243507.75	1.22E-09	1.9YrCancerDerived_Inh	1.22E-09
127	ALL	559811.56	4242787.75	1.21E-09	1.9YrCancerDerived_Inh	1.21E-09
904	ALL	559951.56	4243127.75	1.21E-09	1.9YrCancerDerived_Inh	1.21E-09
263	ALL	559831.56	4242847.75	1.20E-09	1.9YrCancerDerived_Inh	1.20E-09
537	ALL	559871.56	4242967.75	1.20E-09	1.9YrCancerDerived_Inh	1.20E-09
139	ALL	559051.56	4242807.75	1.20E-09	1.9YrCancerDerived_Inh	1.20E-09
400	ALL	559851.56	4242907.75	1.20E-09	1.9YrCancerDerived_Inh	1.20E-09
228	ALL	559031.56	4242847.75	1.19E-09	1.9YrCancerDerived_Inh	1.19E-09
813	ALL	559931.56	4243087.75	1.19E-09	1.9YrCancerDerived_Inh	1.19E-09
82	ALL	559811.56	4242767.75	1.19E-09	1.9YrCancerDerived_Inh	1.19E-09
628	ALL	559891.56	4243007.75	1.18E-09	1.9YrCancerDerived_Inh	1.18E-09
1826	ALL	559011.56	4243567.75	1.18E-09	1.9YrCancerDerived_Inh	1.18E-09
1923	ALL	559031.56	4243607.75	1.18E-09	1.9YrCancerDerived_Inh	1.18E-09
2020	ALL	559051.56	4243647.75	1.18E-09	1.9YrCancerDerived_Inh	1.18E-09
721	ALL	559911.56	4243047.75	1.18E-09	1.9YrCancerDerived_Inh	1.18E-09
950	ALL	559971.56	4243147.75	1.18E-09	1.9YrCancerDerived_Inh	1.18E-09
218	ALL	559831.56	4242827.75	1.17E-09	1.9YrCancerDerived_Inh	1.17E-09
316	ALL	558991.56	4242887.75	1.17E-09	1.9YrCancerDerived_Inh	1.17E-09
1734	ALL	558991.56	4243527.75	1.17E-09	1.9YrCancerDerived_Inh	1.17E-09
272	ALL	559011.56	4242867.75	1.17E-09	1.9YrCancerDerived_Inh	1.17E-09
94	ALL	559051.56	4242787.75	1.17E-09	1.9YrCancerDerived_Inh	1.17E-09
354	ALL	559851.56	4242887.75	1.17E-09	1.9YrCancerDerived_Inh	1.17E-09
491	ALL	559871.56	4242947.75	1.17E-09	1.9YrCancerDerived_Inh	1.17E-09
37	ALL	559811.56	4242747.75	1.16E-09	1.9YrCancerDerived_Inh	1.16E-09
859	ALL	559951.56	4243107.75	1.15E-09	1.9YrCancerDerived_Inh	1.15E-09
173	ALL	559831.56	4242807.75	1.15E-09	1.9YrCancerDerived_Inh	1.15E-09
183	ALL	559031.56	4242827.75	1.15E-09	1.9YrCancerDerived_Inh	1.15E-09
49	ALL	559051.56	4242767.75	1.15E-09	1.9YrCancerDerived_Inh	1.15E-09
583	ALL	559891.56	4242987.75	1.14E-09	1.9YrCancerDerived_Inh	1.14E-09
1874	ALL	559011.56	4243587.75	1.14E-09	1.9YrCancerDerived_Inh	1.14E-09
2067	ALL	559051.56	4243667.75	1.14E-09	1.9YrCancerDerived_Inh	1.14E-09
768	ALL	559931.56	4243067.75	1.14E-09	1.9YrCancerDerived_Inh	1.14E-09
309	ALL	559851.56	4242867.75	1.14E-09	1.9YrCancerDerived_Inh	1.14E-09
4	ALL	559051.56	4242747.75	1.14E-09	1.9YrCancerDerived_Inh	1.14E-09
675	ALL	559911.56	4243027.75	1.13E-09	1.9YrCancerDerived_Inh	1.13E-09
1971	ALL	559031.56	4243627.75	1.13E-09	1.9YrCancerDerived_Inh	1.13E-09
1780	ALL	558991.56	4243547.75	1.13E-09	1.9YrCancerDerived_Inh	1.13E-09
446	ALL	559871.56	4242927.75	1.13E-09	1.9YrCancerDerived_Inh	1.13E-09
2210	ALL	559071.56	4243727.75	1.12E-09	1.9YrCancerDerived_Inh	1.12E-09
905	ALL	559971.56	4243127.75	1.12E-09	1.9YrCancerDerived_Inh	1.12E-09
128	ALL	559831.56	4242787.75	1.12E-09	1.9YrCancerDerived_Inh	1.12E-09
227	ALL	559011.56	4242847.75	1.12E-09	1.9YrCancerDerived_Inh	1.12E-09
271	ALL	558991.56	4242867.75	1.12E-09	1.9YrCancerDerived_Inh	1.12E-09
264	ALL	559851.56	4242847.75	1.11E-09	1.9YrCancerDerived_Inh	1.11E-09
138	ALL	559031.56	4242807.75	1.11E-09	1.9YrCancerDerived_Inh	1.11E-09
538	ALL	559891.56	4242967.75	1.11E-09	1.9YrCancerDerived_Inh	1.11E-09
401	ALL	559871.56	4242907.75	1.10E-09	1.9YrCancerDerived_Inh	1.10E-09
814	ALL	559951.56	4243087.75	1.10E-09	1.9YrCancerDerived_Inh	1.10E-09
2019	ALL	559031.56	4243647.75	1.10E-09	1.9YrCancerDerived_Inh	1.10E-09
1922	ALL	559011.56	4243607.75	1.10E-09	1.9YrCancerDerived_Inh	1.10E-09
1825	ALL	558991.56	4243567.75	1.10E-09	1.9YrCancerDerived_Inh	1.10E-09
83	ALL	559831.56	4242767.75	1.10E-09	1.9YrCancerDerived_Inh	1.10E-09
629	ALL	559911.56	4243007.75	1.10E-09	1.9YrCancerDerived_Inh	1.10E-09
722	ALL	559931.56	4243047.75	1.09E-09	1.9YrCancerDerived_Inh	1.09E-09
219	ALL	559851.56	4242827.75	1.08E-09	1.9YrCancerDerived_Inh	1.08E-09
93	ALL	559031.56	4242787.75	1.08E-09	1.9YrCancerDerived_Inh	1.08E-09
492	ALL	559891.56	4242947.75	1.08E-09	1.9YrCancerDerived_Inh	1.08E-09
355	ALL	559871.56	4242887.75	1.08E-09	1.9YrCancerDerived_Inh	1.08E-09
182	ALL	559011.56	4242827.75	1.07E-09	1.9YrCancerDerived_Inh	1.07E-09
38	ALL	559831.56	4242747.75	1.07E-09	1.9YrCancerDerived_Inh	1.07E-09
860	ALL	559971.56	4243107.75	1.07E-09	1.9YrCancerDerived_Inh	1.07E-09
226	ALL	558991.56	4242847.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09
174	ALL	559851.56	4242807.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09

584	ALL	559911.56	4242987.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09
1873	ALL	558991.56	4243587.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09
2066	ALL	559031.56	4243667.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09
48	ALL	559031.56	4242767.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09
769	ALL	559951.56	4243067.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09
1970	ALL	559011.56	4243627.75	1.06E-09	1.9YrCancerDerived_Inh	1.06E-09
676	ALL	559931.56	4243027.75	1.05E-09	1.9YrCancerDerived_Inh	1.05E-09
310	ALL	559871.56	4242867.75	1.05E-09	1.9YrCancerDerived_Inh	1.05E-09
447	ALL	559891.56	4242927.75	1.05E-09	1.9YrCancerDerived_Inh	1.05E-09
3	ALL	559031.56	4242747.75	1.05E-09	1.9YrCancerDerived_Inh	1.05E-09
129	ALL	559851.56	4242787.75	1.04E-09	1.9YrCancerDerived_Inh	1.04E-09
137	ALL	559011.56	4242807.75	1.04E-09	1.9YrCancerDerived_Inh	1.04E-09
539	ALL	559911.56	4242967.75	1.03E-09	1.9YrCancerDerived_Inh	1.03E-09
265	ALL	559871.56	4242847.75	1.03E-09	1.9YrCancerDerived_Inh	1.03E-09
815	ALL	559971.56	4243087.75	1.03E-09	1.9YrCancerDerived_Inh	1.03E-09
1921	ALL	558991.56	4243607.75	1.02E-09	1.9YrCancerDerived_Inh	1.02E-09
402	ALL	559891.56	4242907.75	1.02E-09	1.9YrCancerDerived_Inh	1.02E-09
630	ALL	559931.56	4243007.75	1.02E-09	1.9YrCancerDerived_Inh	1.02E-09
2018	ALL	559011.56	4243647.75	1.02E-09	1.9YrCancerDerived_Inh	1.02E-09
723	ALL	559951.56	4243047.75	1.02E-09	1.9YrCancerDerived_Inh	1.02E-09
2114	ALL	559031.56	4243687.75	1.02E-09	1.9YrCancerDerived_Inh	1.02E-09
84	ALL	559851.56	4242767.75	1.02E-09	1.9YrCancerDerived_Inh	1.02E-09
181	ALL	558991.56	4242827.75	1.01E-09	1.9YrCancerDerived_Inh	1.01E-09
92	ALL	559011.56	4242787.75	1.01E-09	1.9YrCancerDerived_Inh	1.01E-09
220	ALL	559871.56	4242827.75	1.01E-09	1.9YrCancerDerived_Inh	1.01E-09
493	ALL	559911.56	4242947.75	9.99E-10	1.9YrCancerDerived_Inh	9.99E-10
356	ALL	559891.56	4242887.75	9.98E-10	1.9YrCancerDerived_Inh	9.98E-10
39	ALL	559851.56	4242747.75	9.95E-10	1.9YrCancerDerived_Inh	9.95E-10
47	ALL	559011.56	4242767.75	9.88E-10	1.9YrCancerDerived_Inh	9.88E-10
1969	ALL	558991.56	4243627.75	9.87E-10	1.9YrCancerDerived_Inh	9.87E-10
770	ALL	559971.56	4243067.75	9.85E-10	1.9YrCancerDerived_Inh	9.85E-10
585	ALL	559931.56	4242987.75	9.85E-10	1.9YrCancerDerived_Inh	9.85E-10
175	ALL	559871.56	4242807.75	9.84E-10	1.9YrCancerDerived_Inh	9.84E-10
2162	ALL	559031.56	4243707.75	9.83E-10	1.9YrCancerDerived_Inh	9.83E-10
2065	ALL	559011.56	4243667.75	9.82E-10	1.9YrCancerDerived_Inh	9.82E-10
677	ALL	559951.56	4243027.75	9.81E-10	1.9YrCancerDerived_Inh	9.81E-10
136	ALL	558991.56	4242807.75	9.76E-10	1.9YrCancerDerived_Inh	9.76E-10
311	ALL	559891.56	4242867.75	9.75E-10	1.9YrCancerDerived_Inh	9.75E-10
448	ALL	559911.56	4242927.75	9.73E-10	1.9YrCancerDerived_Inh	9.73E-10
2	ALL	559011.56	4242747.75	9.69E-10	1.9YrCancerDerived_Inh	9.69E-10
130	ALL	559871.56	4242787.75	9.64E-10	1.9YrCancerDerived_Inh	9.64E-10
540	ALL	559931.56	4242967.75	9.56E-10	1.9YrCancerDerived_Inh	9.56E-10
266	ALL	559891.56	4242847.75	9.54E-10	1.9YrCancerDerived_Inh	9.54E-10
2017	ALL	558991.56	4243647.75	9.51E-10	1.9YrCancerDerived_Inh	9.51E-10
403	ALL	559911.56	4242907.75	9.50E-10	1.9YrCancerDerived_Inh	9.50E-10
724	ALL	559971.56	4243047.75	9.49E-10	1.9YrCancerDerived_Inh	9.49E-10
91	ALL	558991.56	4242787.75	9.49E-10	1.9YrCancerDerived_Inh	9.49E-10
631	ALL	559951.56	4243007.75	9.48E-10	1.9YrCancerDerived_Inh	9.48E-10
2113	ALL	559011.56	4243687.75	9.48E-10	1.9YrCancerDerived_Inh	9.48E-10
85	ALL	559871.56	4242767.75	9.45E-10	1.9YrCancerDerived_Inh	9.45E-10
221	ALL	559891.56	4242827.75	9.35E-10	1.9YrCancerDerived_Inh	9.35E-10
494	ALL	559931.56	4242947.75	9.30E-10	1.9YrCancerDerived_Inh	9.30E-10
357	ALL	559911.56	4242887.75	9.28E-10	1.9YrCancerDerived_Inh	9.28E-10
40	ALL	559871.56	4242747.75	9.27E-10	1.9YrCancerDerived_Inh	9.27E-10
46	ALL	558991.56	4242767.75	9.21E-10	1.9YrCancerDerived_Inh	9.21E-10
2161	ALL	559011.56	4243707.75	9.20E-10	1.9YrCancerDerived_Inh	9.20E-10
586	ALL	559951.56	4242987.75	9.19E-10	1.9YrCancerDerived_Inh	9.19E-10
2064	ALL	558991.56	4243667.75	9.19E-10	1.9YrCancerDerived_Inh	9.19E-10
678	ALL	559971.56	4243027.75	9.16E-10	1.9YrCancerDerived_Inh	9.16E-10
176	ALL	559891.56	4242807.75	9.16E-10	1.9YrCancerDerived_Inh	9.16E-10
312	ALL	559911.56	4242867.75	9.08E-10	1.9YrCancerDerived_Inh	9.08E-10
449	ALL	559931.56	4242927.75	9.07E-10	1.9YrCancerDerived_Inh	9.07E-10
131	ALL	559891.56	4242787.75	8.99E-10	1.9YrCancerDerived_Inh	8.99E-10
1	ALL	558991.56	4242747.75	8.98E-10	1.9YrCancerDerived_Inh	8.98E-10
541	ALL	559951.56	4242967.75	8.93E-10	1.9YrCancerDerived_Inh	8.93E-10
2209	ALL	559011.56	4243727.75	8.90E-10	1.9YrCancerDerived_Inh	8.90E-10
267	ALL	559911.56	4242847.75	8.89E-10	1.9YrCancerDerived_Inh	8.89E-10
2112	ALL	558991.56	4243687.75	8.88E-10	1.9YrCancerDerived_Inh	8.88E-10
632	ALL	559971.56	4243007.75	8.87E-10	1.9YrCancerDerived_Inh	8.87E-10
404	ALL	559931.56	4242907.75	8.85E-10	1.9YrCancerDerived_Inh	8.85E-10
86	ALL	559891.56	4242767.75	8.82E-10	1.9YrCancerDerived_Inh	8.82E-10
222	ALL	559911.56	4242827.75	8.72E-10	1.9YrCancerDerived_Inh	8.72E-10
495	ALL	559951.56	4242947.75	8.69E-10	1.9YrCancerDerived_Inh	8.69E-10
358	ALL	559931.56	4242887.75	8.66E-10	1.9YrCancerDerived_Inh	8.66E-10

41	ALL	559891.56	4242747.75	8.66E-10	1.9YrCancerDerived_Inh	8.66E-10
587	ALL	559971.56	4242987.75	8.60E-10	1.9YrCancerDerived_Inh	8.60E-10
2160	ALL	558991.56	4243707.75	8.58E-10	1.9YrCancerDerived_Inh	8.58E-10
177	ALL	559911.56	4242807.75	8.55E-10	1.9YrCancerDerived_Inh	8.55E-10
313	ALL	559931.56	4242867.75	8.48E-10	1.9YrCancerDerived_Inh	8.48E-10
450	ALL	559951.56	4242927.75	8.48E-10	1.9YrCancerDerived_Inh	8.48E-10
132	ALL	559911.56	4242787.75	8.40E-10	1.9YrCancerDerived_Inh	8.40E-10
542	ALL	559971.56	4242967.75	8.36E-10	1.9YrCancerDerived_Inh	8.36E-10
2208	ALL	558991.56	4243727.75	8.34E-10	1.9YrCancerDerived_Inh	8.34E-10
268	ALL	559931.56	4242847.75	8.31E-10	1.9YrCancerDerived_Inh	8.31E-10
405	ALL	559951.56	4242907.75	8.28E-10	1.9YrCancerDerived_Inh	8.28E-10
87	ALL	559911.56	4242767.75	8.25E-10	1.9YrCancerDerived_Inh	8.25E-10
223	ALL	559931.56	4242827.75	8.15E-10	1.9YrCancerDerived_Inh	8.15E-10
496	ALL	559971.56	4242947.75	8.14E-10	1.9YrCancerDerived_Inh	8.14E-10
42	ALL	559911.56	4242747.75	8.10E-10	1.9YrCancerDerived_Inh	8.10E-10
359	ALL	559951.56	4242887.75	8.10E-10	1.9YrCancerDerived_Inh	8.10E-10
178	ALL	559931.56	4242807.75	8.01E-10	1.9YrCancerDerived_Inh	8.01E-10
451	ALL	559971.56	4242927.75	7.95E-10	1.9YrCancerDerived_Inh	7.95E-10
314	ALL	559951.56	4242867.75	7.94E-10	1.9YrCancerDerived_Inh	7.94E-10
133	ALL	559931.56	4242787.75	7.87E-10	1.9YrCancerDerived_Inh	7.87E-10
269	ALL	559951.56	4242847.75	7.79E-10	1.9YrCancerDerived_Inh	7.79E-10
406	ALL	559971.56	4242907.75	7.77E-10	1.9YrCancerDerived_Inh	7.77E-10
88	ALL	559931.56	4242767.75	7.73E-10	1.9YrCancerDerived_Inh	7.73E-10
224	ALL	559951.56	4242827.75	7.65E-10	1.9YrCancerDerived_Inh	7.65E-10
43	ALL	559931.56	4242747.75	7.61E-10	1.9YrCancerDerived_Inh	7.61E-10
360	ALL	559971.56	4242887.75	7.61E-10	1.9YrCancerDerived_Inh	7.61E-10
179	ALL	559951.56	4242807.75	7.51E-10	1.9YrCancerDerived_Inh	7.51E-10
315	ALL	559971.56	4242867.75	7.46E-10	1.9YrCancerDerived_Inh	7.46E-10
134	ALL	559951.56	4242787.75	7.39E-10	1.9YrCancerDerived_Inh	7.39E-10
270	ALL	559971.56	4242847.75	7.32E-10	1.9YrCancerDerived_Inh	7.32E-10
89	ALL	559951.56	4242767.75	7.27E-10	1.9YrCancerDerived_Inh	7.27E-10
225	ALL	559971.56	4242827.75	7.19E-10	1.9YrCancerDerived_Inh	7.19E-10
44	ALL	559951.56	4242747.75	7.16E-10	1.9YrCancerDerived_Inh	7.16E-10
180	ALL	559971.56	4242807.75	7.07E-10	1.9YrCancerDerived_Inh	7.07E-10
135	ALL	559971.56	4242787.75	6.96E-10	1.9YrCancerDerived_Inh	6.96E-10
90	ALL	559971.56	4242767.75	6.85E-10	1.9YrCancerDerived_Inh	6.85E-10
45	ALL	559971.56	4242747.75	6.75E-10	1.9YrCancerDerived_Inh	6.75E-10

Bay Area Air District Screening HRA

BAAQMD Stationary Source Report Byway East

Area of Interest (AOI) Information

Area: 4,766,125.02 ft²

Date: Tue Jun 30 2026 21:04:06 GMT-0700 (Pacific Daylight Time)



Permitted Stationary Sources

●

Bay Area Air District Boundary

Overburdened Communities

Permitted Stationary Sources | Total count: 1

#	OBJECTID	FacilityID	FacilityName
1	6871	201,552	Watermark at Napa Senior Living

#	Address	City	State
1	4055 SOLANO AVENUE	Napa	CA

#	Zip	County	Latitude
1	94558	Napa	38.333308

#	Longitude	SourceType	NAICS
1	-122.320341	Generator	623311

#	NAICS Sector	NAICS Subsector	NAICS Industry
1	Health Care and Social Assistance	Nursing and Residential Care Facilities	Continuing Care Retirement Communities

#	CancerRisk	ChronicHI	PM25	Throughput_Gal/yr
1	9	0.00	0.01	*No data*

Appendix A

Bay Area Air District - Mobile Source Screening Tool

Receptor Risk Assessment Results

Prepared by: FirstCarbon Solutions

Date of Analysis: 2026-06-30

Raster Files Used (BAAQMD Update Dates):

Road Cancer Risk: raster\cancrsk_onroad_carb_trk_frac.tif (Last Updated: December 8, 2022)

Road Chronic HI: raster\chronhi_onroad_carb_trk_frac.tif (Last Updated: December 8, 2022)

Road PM2.5: raster\PM25_onroad_carb_trk_frac.tif (Last Updated: December 8, 2022)

Rail Cancer Risk: raster\rail_all_cancrsk.tif (Last Updated: August 25, 2025)

Rail Chronic HI: raster\rail_all_chronhi.tif (Last Updated: August 25, 2025)

Rail PM2.5: raster\rail_all_pm25.tif (Last Updated: August 25, 2025)

Results Table:

Receptor ID	UTMX	UTMY	Road Cancer Risk	Road Chronic HI	Road PM2.5	Rail Cancer Risk	Rail Chronic HI	Rail PM2.5
MEIW	559411.560000	4243207.750000	41.818836	0.090572	0.598689	0.000000	0.000000	0.000000
MEIR	559451.560000	4243307.750000	19.988096	0.045291	0.328539	0.000000	0.000000	0.000000

Data provided by: BAAQMD as raster file (.tif) datasets

Appendix C:

Noise Impact Analysis Memorandum

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FCS
An ADEC Innovation

Memorandum

Date: July 7, 2026 (Revised September 4, 2026)

To: Emma Loos, CEIM Development, LLC

From: Philip Ault, Director of Noise and Air Quality

Subject: Noise Impact Analysis for the Proposed Byway East Affordable Housing Project in the City of Napa, California

FirstCarbon Solutions (FCS) prepared this memorandum to summarize the findings of the noise impact analysis for the proposed Byway East Affordable Housing Project (Proposed Project). The Project Site is located in the City of Napa, in Napa County, California. All technical data, including modeling assumptions and outputs, are included as Attachment B.

PROJECT DESCRIPTION

The approximately 2.61-acre Project Site is located at 4122 and 4124 Byway East (Assessor's Parcel Numbers [APNs] 038-063-001 and 038-063-007) in the City of Napa (City). The Project Site is an infill site in the City, and it is bordered by Byway East and State Route (SR) 29 on the west with commercial and hotel uses beyond, Reed Circle and a mobile home park to the north, a single-family residence to the east, and single-family residential and commercial uses near El Centro Avenue to the south. Situated in the northern part of the City, the area is primarily urban, surrounded by residential and commercial developments, with the Napa Valley Railroad and associated greenspace located further west of the Project Site. The nearest transit stop, the Byway East/Reed Circle stop, is immediately adjacent to the Project Site's western boundary and is serviced by Vine Transit Route E. The nearest transit station, the Soscol Gateway Transit Center, is located approximately 3.36 miles southeast of the Project Site and is serviced by 10 bus bays that provide bus services throughout Napa County.[1]

The Project Site is currently developed with the Advantage RV Center, consisting of an RV repair shop, a storage area, and a single-family residence. The existing buildings total approximately 5,031 square feet. Surface parking is provided throughout the Project Site.

The Proposed Project would include demolition of the existing Advantage RV Center, including the existing RV repair shop, storage yard, single-family residence, and carports, to construct an approximately 151,977-square-foot multi-family apartment building up to five stories in height, with 178 multi-family dwelling units, resulting in a density of approximately 68.2 dwelling units per acre (du/acre).

[1] 511 SF Bay. 2026. Napa Soscol Gateway Transit Center. Website: https://511.org/transit/centers/napa-soscol-gateway-transit-center. Accessed May 20, 2026.

The proposed building would have a lot coverage of approximately 30 percent and a maximum height of 68 feet to the top of the stair tower roof structure. The Proposed Project would also feature approximately 7,365 square feet of tuck-under (ground-level) parking, 1,683 square feet of leasing office space, and 1,940 square feet of amenity space.

NOISE AND VIBRATION FUNDAMENTALS

A summary of the fundamentals of noise and vibration is provided as Attachment A to this document.

SETTING AND REGULATORY FRAMEWORK

Federal Regulations

Currently, no federal noise standards directly regulate environmental noise associated with temporary construction activities or the long-term operations of development projects.

Federal Transit Administration

Though not regulatory in nature, vibration impact criteria for buildings and other structures have been established by the Federal Transit Administration (FTA) as building and structural damage is generally the foremost concern when evaluating the impacts of construction-related vibrations. For the evaluation of the Proposed Project's construction-related vibration impacts, the following FTA vibration impact criteria, shown in Table 1, are used given the absence of applicable federal, State, and City standards specific to temporary construction activities and their potential to result in building and structural damage.[2]

Table 1: Federal Transit Administration Construction Vibration Impact Criteria

Building Category	PPV (in/sec)
I. Reinforced Concrete, Steel, or Timber (no plaster)	0.5
II. Engineered Concrete and Masonry (no plaster)	0.3
III. Nonengineered Timber and Masonry Buildings	0.2
IV. Buildings Extremely Susceptible to Vibration Damage	0.12

Notes:
PPV = peak particle velocity
VdB = vibration measured as root mean square (rms) velocity in decibels of 1 microinch per second
Source: Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

The FTA has also established criteria for the assessment of construction noise impacts. The FTA's day and nighttime criteria are shown in Table 2. As discussed below, for purposes of this analysis, the City uses these criteria for evaluation of the Proposed Project's construction noise impacts. According to the FTA, exceedances of these criteria may result in adverse community reaction.

[2] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

Table 2: Federal Transit Administration Construction Noise Impact Criteria

Land Use	$L_{eq\ equipment\ (8\text{-}hr)}$	
	Day	Night
Residential	80	70
Commercial	85	85
Industrial	90	90

Notes:

$L_{eq\ equipment\ (8\text{-}hr)}$ = equipment noise level in L_{eq} over an 8-hour period. The analysis assumes that the L_{eq} over this time period would be approximately equal to the L_{eq} over a single construction workday, from start to finish of that day's activities.

Source: Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. Detailed Analysis Construction Noise Criteria. September.

State Regulations

2017 General Plan Guidelines

The State of California's 2017 General Plan Guidelines propose county and city standards for acceptable exterior noise levels based on land use. These standards are incorporated into land use planning processes to prevent or reduce noise and land use incompatibilities. The State's suggested compatibility considerations between various land uses and exterior noise levels are not regulatory in nature but are recommendations intended to aid communities in determining their own noise-acceptability standards.

Assembly Bill 1307

Assembly Bill (AB) 1307 went into effect on January 1, 2024. This bill clarifies that "for residential projects, the effects of noise generated by project occupants and their guests on human beings is not a significant effect on the environment." Therefore, this analysis does not address potential noise impacts from future occupants and their guests on sensitive receptors in the project vicinity.

Local Regulations

The City addresses noise in the Safety and Noise Element of its General Plan and in the City of Napa Municipal Code. Temporary and long-term noise impacts from the Proposed Project would be regulated or otherwise evaluated by City standards designed to protect public well-being and health.

City of Napa General Plan

The General Plan Safety and Noise Element provides goals, policies, and guidelines to guide compatible land uses and the incorporation of noise attenuation measures for new uses to protect people living and working in the City from an excessive noise environment. The City's applicable goals and policies include:

Goals and Policies

Goal SN-4 Protect public health and welfare by minimizing exposure of sensitive uses to noise and preventing significant degradation of the acoustic environment.

Policy SN 4-3 Discourage the use of berms and sound walls for noise mitigation; rather, encourage the use of project design techniques such as increasing the distance between the noise source and the noise-sensitive receiver and use non-noise-sensitive structures (e.g., a garage) to shield noise-sensitive areas. If a berm or wall is determined necessary to mitigate noise, discourage exclusive use of walls in excess of 6 feet in height and encourage use of natural barriers such as site topography or constructed earthen berms. When walls are determined to be the only feasible solution to noise mitigation, then the walls shall be designed to limit aesthetic impacts.

Policy SN 4-4 Ensure that new development does not generate noise in excess of the performance standards outlined in Table 8-4 [of the General Plan], whenever feasible.

Policy SN 4-7 Address appropriate construction noise and vibration control measures, standards, and monitoring procedures for future development in the City's Municipal Code to reduce impacts to nearby uses. See 8.08.025 Noise-Construction activity in the Municipal Code for additional information.

Policy SN 4-8 Require all construction within 1,000 feet of noise-sensitive uses to undertake measures to reduce noise impacts. Within 100 feet of pile driving locations and 25 feet of construction sites using other non-impact equipment (dozers, excavators, etc.), require all construction to undertake measures to prevent possible exposure of vibration-sensitive buildings and receptors to substantial groundborne vibration levels.

Noise Standards

Table 3 below (Table 8-4 of the General Plan) provides standards for noise generation from non-transportation noise sources such as industrial facilities, automotive servicing, or equipment yards. These standards apply to the noise sources themselves, as measured at the edge of the property line; noise caused by motor vehicles traveling to and from the site is exempt from this standard.

Table 3: Noise Generation Performance Standards for Non-transportation Sources (as measured at property line of source)

Noise Level Descriptor	Daytime (7:00 a.m. to 10:00 p.m.)	Nightime (10:00 p.m. to 7:00 a.m.)
Hourly L_{eq}, dB	55	45
Maximum Level, dB	75	65

Notes:
Each of the noise levels specified above shall be lowered by 5 decibels (dB) for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises.
L_{eq} = equivalent noise level

City of Napa Municipal Code

The City of Napa Municipal Code contains a limited set of regulations that would apply to the Proposed Project's noise impacts, specifically those from construction activities.

Section 8.08.025 outlines various construction-related regulations. Subdivision (A) limits construction hours to between 7:00 a.m. and 7:00 p.m., Monday through Friday, and between 8:00 a.m. and 4:00 p.m. on weekends and legal holidays. Deliveries would be prohibited from occurring prior to 7:30 a.m. or past 5:00 p.m., Monday through Friday. Subdivision (B) requires the use of properly maintained muffler systems on construction equipment. Subdivision (C) requires that construction equipment shall not be placed adjacent to developed areas unless the equipment is provided with acoustical shielding. Section 8.08.025 does not contain any quantitative noise limits or incremental thresholds for construction activities.

Existing Noise Conditions

Ambient Noise

An ambient noise monitoring effort was conducted to document daytime ambient noise levels on the Project Site. Short-term noise monitoring was conducted by FCS on June 23, 2026, between 11:34 a.m. and 12:11 p.m. Dominant noise sources in the vicinity included traffic from nearby roadways, primarily from SR-29, and pedestrian activity associated with the adjacent neighborhood located to the north of the Project Site. As shown in Table 4 below, the documented daytime average noise levels range from 48.3 A-weighted decibels (dBA) to 66.2 dBA L_{eq} on the Project Site. The noise monitoring data sheets are included in Attachment B.

Table 4: Existing Ambient Noise Levels on the Project Site

Site ID #	Site Location (Dominant Noise Sources)	L_{eq}	L_{max}
ST-1	Southwest corner of the Project Site nearby SR-29. (Traffic noise from SR-29.)	66.2	83.8
ST-2	At the northern border of the Project Site, near the intersection of Reed Circle. (Typical neighborhood noises from the adjacent neighborhood to the north. Occasional car noise, occasional voices or dog bark.)	48.3	62.3

Notes:
dB = decibel
L_{eq} = equivalent sound level
L_{max} = maximum sound level
SR = State Route

THRESHOLDS OF SIGNIFICANCE AND IMPACT ANALYSIS

Thresholds of Significance

According to the California Environmental Quality Act (CEQA) Guidelines, Appendix G, to determine whether impacts related to noise and vibration are significant environmental effects, the following questions are analyzed and evaluated.

Would the Proposed Project:

a) Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

b) Generate excessive groundborne vibration or groundborne noise levels?

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Substantial Noise Increase in Excess of Standards

Construction Noise

A significant impact would occur if implementation of the Proposed Project would expose persons working or residing at the Project Site or in the project vicinity to noise levels in excess of established standards. Section 8.08.025 of the City of Napa Municipal Code outlines allowable hours for construction activities, but it does not establish a quantitative noise limit or threshold for construction activities. Therefore, this analysis uses the noise limits established by the FTA to identify the potential for impacts due to substantial temporary construction noise. The FTA identifies construction noise limits in the Transit Noise and Vibration Impact Assessment Manual.[3] During daytime hours, a significant temporary increase would be an increase in excess of the average daily noise level of 80 dBA $L_{eq(8\text{-}hr)}$ as measured at a receiving residential land use and 85 dBA $L_{eq(8\text{-}hr)}$ as measured at a receiving commercial land use.

Noise impacts from construction activities associated with the Proposed Project would be a function of the noise generated by construction equipment, equipment location, sensitivity of nearby land uses, and the timing and duration of the construction activities.

The site preparation phase, which includes excavation and grading of the site, tends to generate the highest noise levels because the noisiest construction equipment is earthmoving equipment. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 or 4 minutes at lower power settings. A conservative but reasonable assumption is that this equipment would operate simultaneously and continuously over at least a 1-hour period in the vicinity of the closest existing sensitive receptors but would move linearly over the Project Site as

[3] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

they perform their earthmoving operations, spending a relatively short amount of time adjacent to any one (1) receptor. These worst-case construction noise levels would only occur during the site preparation phase of development.

The closest noise-sensitive residential receptor to the Project Site is a residence located north across Reed Circle. This closest noise-sensitive receptor would be located approximately 40 feet from the nearest construction footprint where multiple pieces of heavy construction equipment would potentially operate at the Project Site. At this distance, the reasonable worst-case calculated 8-hour average noise level would be 77 dBA $L_{eq(8\text{-}hr)}$ as measured at this nearest sensitive receptor. The calculation spreadsheet with the detailed modeling assumptions is included in Attachment B. These calculated worst-case construction noise levels do not exceed the FTA's 80 dBA $L_{eq(8\text{-}hr)}$ threshold as measured at this nearest sensitive receptor.

The closest commercial receptor to the Project Site is the Napa Valley Real Estate office building located directly south of the Project Site. The façade of this building would be located approximately 25 feet from the nearest construction footprint where multiple pieces of heavy construction equipment would potentially operate at the Project Site. At this distance, the reasonable worst-case calculated 8-hour average noise level would be 82 dBA $L_{eq(8\text{-}hr)}$ as measured at this nearest commercial receptor. The calculation spreadsheet with the detailed modeling assumptions is included in Attachment B.

Therefore, these calculated reasonable worst-case construction noise levels would not exceed the FTA's average daily thresholds of 80 dBA $L_{eq(8\text{-}hr)}$ as measured at the nearest residential receptors, and 85 dBA $L_{eq(8\text{-}hr)}$ as measured at the nearest commercial receptors.

In addition, compliance with the City's restrictions on permissible hours for construction activity would preclude nighttime noise impacts. Therefore, the Proposed Project would not result in substantial temporary increase in ambient noise levels at off-site sensitive receptors above established standards, and construction noise impacts on sensitive receptors in the project vicinity would be **less than significant.**

Operational/Stationary Source Noise Impacts

A significant impact would occur if operational noise levels generated by stationary noise sources at the Project Site would result in a substantial permanent increase in ambient noise levels in excess of any of the noise performance thresholds established by the City. According to the General Plan Safety and Noise Element, noise generation performance standards for non-transportation sources are 55 dBA L_{eq} and 75 dBA L_{max} during daytime hours (7:00 a.m. to 10:00 p.m.) and 45 dBA L_{eq} and 65 dBA L_{max} during nighttime hours (10:00 p.m. to 7:00 a.m.) as measured at the Project Site property line (i.e., the property line of the noise source).

The primary stationary noise sources associated with implementation of the Proposed Project would be new mechanical ventilation systems. Therefore, potential impacts associated with mechanical equipment are analyzed below.

Pursuant to the General Plan, noise generated by motor vehicles traveling to and from the Project Site is exempt from the applicable non-transportation noise standards. Because parking lot activity is inherently associated with vehicle access to and from the Project Site, it is not evaluated as a stationary noise source under this criterion; however, project traffic noise impacts are analyzed in the subsequent impact discussion.

Mechanical Equipment Operations

Implementation of the Proposed Project would include operation of new mechanical ventilation equipment. Noise levels for commercial-grade mechanical ventilation equipment systems range up to approximately 78 dBA L_{eq} at a distance of 3 feet.

The nearest sensitive receptor is the mobile home park residential land use located north of the Project Site. The distance from the proposed rooftop mechanical equipment to the project property line adjacent to this receptor is approximately 40 feet. At this distance, assuming minimal shielding from the proposed rooftop parapet, noise generated by typical rooftop mechanical ventilation equipment would attenuate to 42 dBA L_{eq} as measured at the Project Site property line nearest this residential land use. The calculation spreadsheet with the detailed modeling assumptions is included in Attachment B.

These operational noise levels would not exceed the City's most stringent noise performance thresholds of 45 dBA L_{eq} and 65 dBA L_{max} during nighttime hours as measured at the property line of the noise source. In addition, these noise levels would also not exceed the documented existing daytime ambient noise levels in the project vicinity, which range from 48.3 dBA to 66.2 dBA L_{eq}.

Therefore, mechanical ventilation system operational noise levels would not result in a substantial permanent increase in noise levels in the project vicinity in excess of established standards. The impact of mechanical ventilation equipment operational noise levels on sensitive off-site receptors would be **less than significant.**

Operational/Mobile Source Noise Impacts

A significant impact would occur if project-generated traffic would result in a substantial increase in ambient noise levels compared with those that would exist without the Proposed Project.

Typically, a doubling of the Average Daily Traffic (ADT) hourly volumes on a roadway segment is required in order to result in an increase of 3 dBA in traffic noise levels, which is the lowest change that can be perceptible to the human ear in outdoor environments. Therefore, for the purposes of this analysis, a doubling of the existing ADT volumes would result in a substantial permanent increase in traffic noise levels.

Based on the Transportation Impact Study prepared by W-Trans,[4] Byway East adjacent to the Project Site currently carries approximately 301 PM peak-hour trips, which would produce a minimum of 3,010 average daily trips under existing traffic conditions. According to the transportation analysis, the proposed project would generate 644 total trips per day or 51 PM peak-hour trips. As a result, the proposed project's net new trips would not double existing hourly or daily average trips on roadway segments adjacent to the project site. Therefore, the Proposed Project would not generate the doubling of traffic volumes typically associated with a 3 dBA increase in roadway traffic noise levels and would remain well below the threshold considered a substantial increase in traffic noise.

Accordingly, project-generated traffic would not result in a substantial permanent increase in ambient noise levels in the project vicinity, and traffic noise impacts would be **less than significant.**

[4] W-Trans. 2026. Transportation Impact Study for the Byway East Affordable Housing Project. Prepared for the City of Napa.

EXCESSIVE GROUNDBORNE VIBRATION LEVELS

Construction Vibration Impacts

A significant impact would occur if the Proposed Project would generate groundborne vibration or groundborne noise levels in excess of established standards. The City at its discretion has chosen to utilize, for purposes of this analysis, the FTA's vibration impact criteria. The FTA has established industry-accepted standards for vibration impact criteria and impact assessment. These guidelines are published in the Transit Noise and Vibration Impact Assessment Manual.[5]

Of the variety of equipment used during construction, the small vibratory rollers anticipated to be used in the paving of internal roadways would produce the greatest groundborne vibration levels. Small vibratory rollers produce groundborne vibration levels ranging up to 0.101 inches per second (in/sec) peak particle velocity (PPV) at 25 feet from the operating equipment.

The closest off-site structure is a garage located south of the Project Site, approximately 20 feet from the nearest construction footprint where a small vibratory roller would potentially operate. At this distance, groundborne vibration levels could range up to 0.14 in/sec PPV from operation of a small vibratory roller. This is below the FTA's Construction Vibration Impact Criteria of 0.2 PPV for this type of building, a structure of nonengineered timber construction. As a result, construction of the Proposed Project would not expose nearby buildings to groundborne vibration levels in excess of their applicable FTA damage criteria, and this impact would be **less than significant**.

Operational Vibration Impacts

Implementation of the Proposed Project would not include any permanent sources that would expose persons in the project vicinity to groundborne vibration levels that could be perceptible without instruments at any receiving property line. Therefore, project operational groundborne vibration level impacts would be **less than significant**.

EXCESSIVE NOISE LEVELS FROM AIRPORT ACTIVITY

A significant impact would occur if the Proposed Project would expose people residing or working in the project area to excessive noise levels for a project located within the vicinity of a private airstrip or an Airport Land Use Compatibility Plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport.

The nearest public airport to the Project Site is Napa County Airport. The Project Site is located approximately 8.05 miles north of Napa County Airport. At this distance, the Project Site is outside the 65 dBA Community Noise Equivalent Level (CNEL) noise contour and is not located within a designated Airport Land Use Compatibility Plan.

[5] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

Aircraft noise would be occasionally audible but would not expose residents to excessive noise levels. Therefore, implementation of the Proposed Project would not expose people residing or working in the project area to excessive noise levels, resulting in **no impact**.

CONCLUSION

Based on the project understanding described above, the Proposed Project would result in less than significant impacts related to construction and operational noise and vibration and no impact related to airport noise impacts.

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Attachment A:

Fundamentals of Noise

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NOISE AND VIBRATION FUNDAMENTALS

Characteristics of Noise and Descriptors

Sound can be described in terms of its loudness (amplitude) and frequency (pitch). Since the range of intensities that the human ear can detect is so large, the scale frequently used to measure intensity is a scale based on multiples of 10, the logarithmic scale. The standard unit of measurement for sound is the decibel, abbreviated dB. Because the human ear is not equally sensitive to sound at all frequencies, the A-weighted scale (dBA) is used to reflect the normal hearing sensitivity range of the human ear. Table 1 provides examples of A-weighted noise levels from common sources.

Although the terms “sound” and “noise” are often used synonymously, noise is commonly defined as sound that is either loud, unpleasant, unexpected, or undesired.[1] Because decibels are logarithmic units, they cannot be simply added or subtracted. For example, two cars each producing 60 dBA of noise would not produce a combined 120 dBA.

Table 1: A-Weighted Decibel Scale

Common Noise Sources	Sound Level, dBA
Near Jet Engine	130
Rock and Roll Band	110
Jet Flyover at 1,000 feet	100
Power Motor	90
Food Blender	80
Living Room Music	70
Human Voice at 3 feet	60
Residential Air Conditioner at 50 feet	50
Bird Calls	40
Quiet Living Room	30
Average Whisper	20
Rustling Leaves	10
Notes: These noise levels are approximations intended for general reference and information use. They do	

[1] California Department of Transportation (Caltrans). 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol.

Common Noise Sources	Sound Level, dBA
not meet the standard required for detailed noise analysis but are provided for the reader to gain a rudimentary concept of various noise levels. Source: Cowan, James P. 1993. Handbook of Environmental Acoustics.	

Table 2 briefly defines common noise measurement descriptors and other sound terminology used in this memorandum.

Table 2: Sound Terminology

Term	Definition
Sound	A vibratory disturbance created by a vibrating object which, when transmitted by pressure waves through a medium such as air, can be detected by a receiving mechanism such as the human ear or a microphone.
Noise	Sound that is loud, unpleasant, unexpected, or otherwise undesirable.
Ambient Noise	The composite of noise from all sources near and far in a given environment.
Decibel (dB)	A unitless measure of sound on a logarithmic scale which represents the squared ratio of sound pressure amplitude to a reference sound pressure. The reference pressure is 20 micropascals, representing the threshold of human hearing (0 dB).
A-Weighted Decibel (dBA)	An overall frequency-weighted sound level that approximates the frequency response of the human ear.
Equivalent Noise Level (L_{eq})	The average sound energy occurring over a specified time period. In effect, L_{eq} is the steady-state sound level that in a stated period would contain the same acoustical energy as the time-varying sound that actually occurs during the same period.
Maximum and Minimum Noise Levels (L_{max} and L_{min})	The maximum or minimum instantaneous sound level measured during a measurement period.
Day-Night Level (DNL or L_{dn})	The energy average of the A-weighted sound levels occurring during a 24-hour period, with 10 dB added to the A-weighted sound levels occurring between 10:00 p.m. and 7:00 a.m. (nighttime).
Community Noise Equivalent Level (CNEL)	The energy average of the A-weighted sound levels occurring during a 24-hour period, with 5 dB added to the A-weighted sound levels occurring between 7:00 p.m. and 10:00 p.m. and 10 dB added to the A- weighted sound levels occurring between 10:00 p.m. and 7:00 a.m.

Term	Definition
Statistical Descriptor (L_X)	L_X is used to represent the noise level exceeded X% of a specified time period. For example, L_{90} represents the noise level that is exceeded 90% of a specified time period. L_{90} is commonly used to represent ambient or background steady-state noise levels.

Source: Data compiled by FirstCarbon Solutions (FCS) 2024.

Effects of Environmental Noise

The degree to which noise can impact an environment ranges from levels that interfere with speech and sleep to levels that can cause adverse health effects. Most human response to noise is subjective.

Factors that influence individual responses may include the intensity, frequency, and pattern of noise; the amount of background or existing noise present; and the nature of work or human activity that is exposed to intruding noise.

According to the National Institute of Health (NIH), extended or repeated exposure to sounds at or above 85 dB can cause hearing loss. Sounds of 75 dBA or less, even after continuous and repeated exposure, are unlikely to cause hearing loss.[2] The World Health Organization (WHO) reports that adults should not be exposed to sudden "impulse" noise events of 140 dB or greater. For children, this limit is 120 dB.[3]

Exposure to elevated nighttime noise levels can disrupt sleep, leading to increased levels of fatigue and decreased work or school performance. For the preservation of healthy sleeping environments, the WHO recommends that continuous interior noise levels should not exceed 30 dBA L_{eq} and that individual noise events of 45 dBA or higher be limited.[4]

Some epidemiological studies have shown a weak association between long-term exposure to noise levels of 65 to 70 dBA L_{eq} or greater and cardiovascular effects, including ischemic heart disease and hypertension. However, at this time, the relationship is largely inconclusive.

It is generally accepted that people with normal hearing sensitivity can barely perceive a 3 dBA change in noise levels, though if changes occur to the character of a sound (i.e., changes to the frequency content), then changes less than 3 dBA may be more noticeable.[5] Changes of 5 dBA may be readily perceptible,

[2] National Institute of Health (NIH), National Institute on Deafness and Other Communication. www.nidcd.nih.gov/health/noise-induced-hearing-loss.

[3] World Health Organization (WHO). 1999. Guidelines for Community Noise.

[4] Ibid.

[5] California Department of Transportation (Caltrans). 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol.

and changes of 10 dBA are perceived as a doubling in loudness.[6] However, few people are highly annoyed by daytime noise levels below 55 dBA.[7]

Loud noises, such as those from construction activities, can interfere with peoples' abilities to effectively communicate via speech, as well as other activities, resulting in annoyance or inconvenience. The EPA has found that a home interior noise level of 45 dBA L_{eq} generally protects speech and communication by providing 100 percent intelligibility of speech sounds.[8] Other common daily activities that may be disrupted by elevated interior noise levels include watching television, listening to music, or activities requiring concentration (such as reading). The EPA has determined that, given the preservation of an indoor noise level associated with 100 percent speech intelligibility (i.e., 45 dBA L_{eq}), the average community reaction is not evident and "7 dBA below levels associated with significant complaints and threats of legal action." Any complaints and annoyance are dependent on "attitude and other non-level related factors."

Noise Attenuation

Generally speaking, noise levels decrease, or "attenuate," as distances from noise sources to receivers increases. For each doubling of distance, noise from stationary or small, localized sources, commonly referred to as "point sources," may attenuate at a rate of 6 dBA for each doubling of distance. This attenuation is referred to as the inverse square law. For example, if a point source emits a noise level of 80 dBA at a reference distance of 50 feet, its noise level would be approximately 74 dBA at a distance of 100 feet, 68 dBA at a distance of 200 feet, etc. Noise emitted by "line" sources, such as highways, attenuates at the rate of 3 dBA for each doubling of distance.[9]

Factors such as ground absorption and atmospheric effects may also affect the propagation of noise. In particular, ground attenuation by non-reflective surfaces, such as soft dirt or grass, may contribute to increased attenuation rates of up to an additional 8-10 dBA per doubling of distance.[10]

Noise is most audible when traveling by direct line of sight, an unobstructed visual path between a noise source and a receiver. Barriers that break the line of sight between noise sources and receivers, such as walls and buildings, can greatly reduce source noise levels by allowing noise to reach receivers by diffraction only. Barriers can reduce source noise levels by up to 20 dBA, though it is generally infeasible for temporary barriers to reduce source noise levels by more than 15 dBA.[11] In cases where the noise

[6] Ibid.

[7] World Health Organization (WHO). 1999. Guidelines for Community Noise.

[8] United States Environmental Protection Agency (EPA). 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety.

[9] California Department of Transportation (Caltrans). 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol.

[10] Ibid.

[11] Ibid.

path from source to receiver is direct but grazes the top of a barrier, noise attenuation of up to 5 dBA may still occur.[12]

Recommended Noise Levels to Protect Public Welfare

In 1972, Congress enacted the Noise Control Act. This act authorized the United States Environmental Protection Agency (EPA) to publish descriptive data on the effects of noise and establish levels of sound "requisite to protect the public welfare with an adequate margin of safety." These levels are separated into health (hearing loss levels) and welfare (annoyance levels) categories, as shown in Table 3. The EPA cautions that these identified levels are not standards because they do not take into account the cost or feasibility of the levels.

For protection against hearing loss, 96 percent of the population would be protected if sound levels are less than or equal to an $L_{eq(24)}$ of 70 dBA. The EPA activity and interference guidelines are designed to ensure reliable speech communication at about 5 feet in the outdoor environment. For outdoor and indoor environments, interference with activity and annoyance should not occur if levels are below 55 dBA and 45 dBA, respectively.

Table 3: Summary of EPA Recommended Noise Levels to Protect Public Welfare

Effect	Level	Area
Hearing loss	$L_{eq}(24) \leq 70$ dB	All areas
Outdoor activity interference and annoyance	$L_{dn} \leq 55$ dB	Outdoors in residential areas, farms, and other outdoor areas where people spend widely varying amounts of time and other places in which quiet is a basis for use.
	$L_{eq}(24) \leq 55$ dB	Outdoor areas where people spend limited amounts of time, such as school yards, playgrounds, etc.
Indoor activity interference and annoyance	$L_{eq} \leq 45$ dB	Indoor residential areas.
	$L_{eq}(24) \leq 45$ dB	Other indoor areas with human activities such as schools, etc.

Note:
(24) signifies an L_{eq} duration of 24 hours.
Source: United States Environmental Protection Agency. 1978. Protective Noise Levels, EPA 550/9-79-100. November.

[12] Ibid.

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Characteristics of Vibration and Descriptors

Groundborne vibrations consist of rapidly fluctuating motions within the ground that have an average motion of zero. Vibrating objects in contact with the ground radiate vibration waves through various soil and rock strata to the foundations of nearby buildings.

Although groundborne vibration can be felt outdoors, it is typically only an annoyance to people indoors where the associated effects of the shaking of a building can be notable. When assessing annoyance from groundborne vibration, vibration is typically expressed as root mean square (rms) velocity in units of decibels of 1 microinch per second. To distinguish these vibration levels referenced in decibels from noise levels referenced in decibels, the unit is written as “VdB.”

In extreme cases, excessive groundborne vibration has the potential to cause structural damage to buildings. Common sources of groundborne vibration include construction activities such as blasting, pile driving, and operating heavy earthmoving equipment. However, construction vibration impacts on building structures are generally assessed in terms of peak particle velocity (PPV). For the purposes of this analysis, project-related impacts are expressed in terms of PPV. Typical vibration source levels from construction equipment are shown in Table 4.

Table 4: Vibration Levels of Construction Equipment

Construction Equipment	PPV at 25 Feet (inches/second)	rms Velocity in Decibels (VdB) at 25 Feet
Water Trucks	0.001	57
Scraper	0.002	58
Bulldozer (Small)	0.003	58
Jackhammer	0.035	79
Concrete Mixer	0.046	81
Concrete Pump	0.046	81
Paver	0.046	81
Pickup Truck	0.046	81
Auger Drill Rig	0.051	82
Backhoe	0.051	82
Crane (Mobile)	0.051	82
Excavator	0.051	82
Grader	0.051	82
Loader	0.051	82

Construction Equipment	PPV at 25 Feet (inches/second)	rms Velocity in Decibels (VdB) at 25 Feet
Loaded Trucks	0.076	86
Bulldozer (Large)	0.089	87
Caisson drilling	0.089	87
Vibratory Roller (Small)	0.101	88
Compactor	0.138	90
Clam shovel drop	0.202	94
Vibratory Roller (Large)	0.210	94
Pile Driver (Impact: typical)	0.644	104
Pile Driver (Impact: upper range)	1.518	112

Notes:
PPV = peak particle velocity
VdB = velocity in decibels
rms = root mean square
Source: Compilation of scientific and academic literature, generated by Federal Transit Administration (FTA) and Federal Highway Administration (FHWA).

As vibration waves propagate from a source, the vibration energy decreases in a logarithmic nature and the vibration levels typically decrease by 6 VdB per doubling of the distance from the vibration source. As stated above, this drop-off rate can vary greatly depending on the soil type, but it has been shown to be effective enough for screening purposes, in order to identify potential vibration impacts that may need to be studied through actual field tests. The vibration level (calculated below as PPV) at a distance from a point source can generally be calculated using the vibration reference equation:

$$PPV = PPV_{ref} * (25/D)^n \text{ (in/sec)}$$

Where:

PPV_{ref} = reference measurement at 25 feet from vibration source
D = distance from equipment to property line
n = vibration attenuation rate through ground

According to Section 7 of the FTA Transit Noise and Vibration Impact Assessment Manual, an “n” value of 1.5 is recommended to calculate vibration propagation through typical soil conditions.[13]

[13] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

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Attachment B:

Noise Modeling Data

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Project Number: 6566.0001 Sheet 1 of 2

Project Name: Byway East Affordable Housing Project

Test Personnel: Jackie WInkel

NOISE MEASUREMENT SURVEY

Site Number: 1 Date: 6/23/26 Time: From 11:34 AM to 11:49 AM

Site Location: Southwest corner of the project site nearby Hwy 29

Primary Noise Sources: Highway 29

Measurement Results

	dBA
L_{eq}	66.2
L_{max}	83.8
L_{min}	43.5
L_{peak}	96.2
L_5	70.2
L_{10}	68.9
L_{50}	63.4
L_{90}	51.2
SEL	95.7

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: Ambient noise primarily from Hwy 29

Equipment: SoundExpert 821.721

Settings: A-Weighted ☑ Other ☐

Measured Difference: dBA

Slow ☑ Fast ☐ Windscreen ☑

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Atmospheric Conditions

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
	5	66	69	

Comments: Sunny, relatively calm conditions overall. Slight breeze.

Photos Taken

Photo Number	Location/Description
1	Facing southwest
2	Facing west, directly at Highway 29
3	Facing northwest

Traffic Description

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

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Project Number: 6566.0001 Sheet 1 of 2

Project Name: Byway East Affordable Housing Project

Test Personnel: Jackie Winkel

NOISE MEASUREMENT SURVEY

Site Number: 2 Date: 6/23/2026 Time: From 11:56am to 12:11pm

Site Location: At the northern border of the project site, near the intersection of Reed Circle

Primary Noise Sources: Typical neighborhood noises from the adjacent neighborhood (to the north). Occasional car noise, occasional voices or dog bark

Measurement Results

	dBA
L_{eq}	48.3
L_{max}	62.3
L_{min}	37.1
L_{peak}	79.4
L_5	51.6
L_{10}	50.4
L_{50}	46.8
L_{90}	42.3
SEL	77.8

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: Generally quiet area adjacent to a residential neighborhood

Equipment: SoundExpert 821.721

Settings: A-Weighted ☑ Other ☐

Measured Difference: dBA

Slow ☐ Fast ☑ Windscreen ☑

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Atmospheric Conditions

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
	5	66	69	

Comments: Sunny, relatively calm conditions overall. Slight breeze.

Photos Taken

Photo Number	Location/Description
1	Photo of sound meter facing north/northwest
2	Photo facing due east
3	Photo facing southeast

Traffic Description

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

Mobile Construction Activity Noise Calculation

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	40	1	0	87.9	83.9	247052942
Excavator	85	1	40	90	1	0	77.3	73.4	21689147.2
Dozer	85	1	40	90	1	0	77.3	73.4	21689147.2
Front End Loader	80	1	40	90	1	0	72.3	68.4	6858710.56
Backhoe	80	1	40	90	1	0	72.3	68.4	6858710.56
						Lmax[5]	88	Leq	85

Notes:
[1] Percentage of time activity occurs each hour based on FHWA usage factors
[2] Distance assumes one piece of equipment adjacent to project boundary and others at the closest reasonable operating distance away
[3] Soft ground terrain between project site and receptor.
[4] Shielding due to terrain or structures
[5] Calculated Lmax is the loudest value.

Distance to Receptor (feet)		8 Hour Average Calculation				
		Time	Hourly Leq	Leq'	0.1*Leq	antiLog
	Night	12:00 AM	0.0	10.0	1	10
		1:00 AM	0.0	10.0	1	10
		2:00 AM	0.0	10.0	1	10
		3:00 AM	0.0	10.0	1	10
		4:00 AM	0.0	10.0	1	10
		5:00 AM	0.0	10.0	1	10
		6:00 AM	0.0	10.0	1	10
	Day	7:00 AM	0.0	0.0	0	1
40		8:00 AM	84.8	84.8	8.483085904	304148658
90		9:00 AM	79.0	79.0	7.896442782	78784862.7
140		10:00 AM	73.2	73.2	7.320786204	20930818.1
190		11:00 AM	69.2	69.2	6.922909508	8373547.88
Lunch break		12:00 PM	0.0	0.0	0	1
240		1:00 PM	66.2	66.2	6.618536586	4154670.49
290		2:00 PM	63.7	63.7	6.371976317	2354920.86
340		3:00 PM	61.6	61.6	6.16473356	1461280.4
390		4:00 PM	59.9	59.9	5.98597649	968225.44
		5:00 PM	0.0	0.0	0	1
Notes: *Equipment is measured as operating across the project site		6:00 PM	0.0	0.0	0	1
	Evening	7:00 PM	0.0	5.0	0.5	3.16227766
		8:00 PM	0.0	5.0	0.5	3.16227766
		9:00 PM	0.0	5.0	0.5	3.16227766
	Night	10:00 PM	0.0	10.0	1	10
		11:00 PM	0.0	10.0	1	10
				Sum		421177087
				Sum/8		52647135.9
				Log10(Sum/8)		7.72137475
				10*Log10(Sum/8)		77.2137475
				8 Hour Average		77

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	90	1	0	79.9	73.4	21689147.2
Excavator	85	1	40	90	1	0	79.9	73.4	21689147.2
Dozer	85	1	40	90	1	0	79.9	73.4	21689147.2
Front End Loader	80	1	40	90	1	0	74.9	68.4	6858710.56
Backhoe	80	1	40	90	1	0	74.9	68.4	6858710.56
								Leq	79

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	140	1	0	76.1	67.6	5762167.75
Excavator	85	1	40	140	1	0	76.1	67.6	5762167.75
Dozer	85	1	40	140	1	0	76.1	67.6	5762167.75
Front End Loader	80	1	40	140	1	0	71.1	62.6	1822157.43
Backhoe	80	1	40	140	1	0	71.1	62.6	1822157.43

								Leq	73

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	190	1	0	73.4	63.6	2305203.13
Excavator	85	1	40	190	1	0	73.4	63.6	2305203.13
Dozer	85	1	40	190	1	0	73.4	63.6	2305203.13
Front End Loader	80	1	40	190	1	0	68.4	58.6	728969.237
Backhoe	80	1	40	190	1	0	68.4	58.6	728969.237
								Leq	69

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	240	1	0	71.4	60.6	1143763.62
Excavator	85	1	40	240	1	0	71.4	60.6	1143763.62
Dozer	85	1	40	240	1	0	71.4	60.6	1143763.62
Front End Loader	80	1	40	240	1	0	66.4	55.6	361689.815
Backhoe	80	1	40	240	1	0	66.4	55.6	361689.815
								Leq	66

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	290	1	0	69.7	58.1	648299.984
Excavator	85	1	40	290	1	0	69.7	58.1	648299.984
Dozer	85	1	40	290	1	0	69.7	58.1	648299.984
Front End Loader	80	1	40	290	1	0	64.7	53.1	205010.456
Backhoe	80	1	40	290	1	0	64.7	53.1	205010.456
								Leq	64

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	340	1	0	68.3	56.0	402284.457
Excavator	85	1	40	340	1	0	68.3	56.0	402284.457
Dozer	85	1	40	340	1	0	68.3	56.0	402284.457
Front End Loader	80	1	40	340	1	0	63.3	51.0	127213.515
Backhoe	80	1	40	340	1	0	63.3	51.0	127213.515
								Leq	62

Receiving residential land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	390	1	0	67.2	54.3	266548.463
Excavator	85	1	40	390	1	0	67.2	54.3	266548.463
Dozer	85	1	40	390	1	0	67.2	54.3	266548.463
Front End Loader	80	1	40	390	1	0	62.2	49.3	84290.0251
Backhoe	80	1	40	390	1	0	62.2	49.3	84290.0251
								Leq	60

Mobile Construction Activity Noise Calculation

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	**Lmax**	**Quantity**	**factor[1]**	**Receptor [2]**	**Effect[3]**	**(dBA)[4]**	**Lmax**	**Leq**	**Energy**
Grader	85	1	40	25	1	0	94.0	90.1	1011928851
Excavator	85	1	40	75	1	0	79.7	75.7	37478846.3
Dozer	85	1	40	75	1	0	79.7	75.7	37478846.3
Front End Loader	80	1	40	75	1	0	74.7	70.7	11851851.9
Backhoe	80	1	40	75	1	0	74.7	70.7	11851851.9
						Lmax[5]	**94**	**Leq**	**90**

Notes:
[1] Percentage of time activity occurs each hour based on FHWA usage factors
[2] Distance assumes one piece of equipment adjacent to project boundary and others at the closest reasonable operating distance away
[3] Soft ground terrain between project site and receptor.
[4] Shielding due to terrain or structures
[5] Calculated Lmax is the loudest value.

Distance to Receptor (feet)		**8 Hour Average Calculation**				
			Time	Hourly Leq	Leq'	0.1*Leq	antiLog
		Night	12:00 AM	0.0	10.0	1	10
			1:00 AM	0.0	10.0	1	10
			2:00 AM	0.0	10.0	1	10
			3:00 AM	0.0	10.0	1	10
			4:00 AM	0.0	10.0	1	10
			5:00 AM	0.0	10.0	1	10
			6:00 AM	0.0	10.0	1	10
		Day	7:00 AM	0.0	0.0	0	1
	25		8:00 AM	90.5	90.5	9.045553856	1110590248
	75		9:00 AM	81.3	81.3	8.133986521	136140243
	125		10:00 AM	74.7	74.7	7.468440272	29406292.4
	175		11:00 AM	70.3	70.3	7.030056165	10716578.9
	Lunch break		12:00 PM	0.0	0.0	0	1
	225		1:00 PM	67.0	67.0	6.702622756	5042231.21
	275		2:00 PM	64.4	64.4	6.441172229	2761672.84
	325		3:00 PM	62.2	62.2	6.223520228	1673093.56
	375		4:00 PM	60.4	60.4	6.037076508	1089121.94
			5:00 PM	0.0	0.0	0	1
Notes: *Equipment is measured as			6:00 PM	0.0	0.0	0	1
operating across the project site		Evening	7:00 PM	0.0	5.0	0.5	3.16227766
			8:00 PM	0.0	5.0	0.5	3.16227766
			9:00 PM	0.0	5.0	0.5	3.16227766
		Night	10:00 PM	0.0	10.0	1	10
			11:00 PM	0.0	10.0	1	10
					Sum		1297419585
					Sum/8		162177448
					Log10(Sum/8)		8.20999046
					10*Log10(Sum/8)		82.0999046
					8 Hour Average		82

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	**Lmax**	**Quantity**	**factor[1]**	**Receptor [2]**	**Effect[3]**	**(dBA)[4]**	**Lmax**	**Leq**	**Energy**
Grader	85	1	40	75	1	0	81.5	75.7	37478846.3
Excavator	85	1	40	75	1	0	81.5	75.7	37478846.3
Dozer	85	1	40	75	1	0	81.5	75.7	37478846.3
Front End Loader	80	1	40	75	1	0	76.5	70.7	11851851.9
Backhoe	80	1	40	75	1	0	76.5	70.7	11851851.9
								Leq	**81**

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	**Lmax**	**Quantity**	**factor[1]**	**Receptor [2]**	**Effect[3]**	**(dBA)[4]**	**Lmax**	**Leq**	**Energy**
Grader	85	1	40	125	1	0	77.0	69.1	8095430.81
Excavator	85	1	40	125	1	0	77.0	69.1	8095430.81
Dozer	85	1	40	125	1	0	77.0	69.1	8095430.81
Front End Loader	80	1	40	125	1	0	72.0	64.1	2560000
Backhoe	80	1	40	125	1	0	72.0	64.1	2560000

								Leq	75

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	175	1	0	74.1	64.7	2950229.89
Excavator	85	1	40	175	1	0	74.1	64.7	2950229.89
Dozer	85	1	40	175	1	0	74.1	64.7	2950229.89
Front End Loader	80	1	40	175	1	0	69.1	59.7	932944.606
Backhoe	80	1	40	175	1	0	69.1	59.7	932944.606
								Leq	70

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	225	1	0	71.9	61.4	1388105.42
Excavator	85	1	40	225	1	0	71.9	61.4	1388105.42
Dozer	85	1	40	225	1	0	71.9	61.4	1388105.42
Front End Loader	80	1	40	225	1	0	66.9	56.4	438957.476
Backhoe	80	1	40	225	1	0	66.9	56.4	438957.476
								Leq	67

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	275	1	0	70.2	58.8	760277.123
Excavator	85	1	40	275	1	0	70.2	58.8	760277.123
Dozer	85	1	40	275	1	0	70.2	58.8	760277.123
Front End Loader	80	1	40	275	1	0	65.2	53.8	240420.736
Backhoe	80	1	40	275	1	0	65.2	53.8	240420.736
								Leq	64

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	325	1	0	68.7	56.6	460595.745
Excavator	85	1	40	325	1	0	68.7	56.6	460595.745
Dozer	85	1	40	325	1	0	68.7	56.6	460595.745
Front End Loader	80	1	40	325	1	0	63.7	51.6	145653.163
Backhoe	80	1	40	325	1	0	63.7	51.6	145653.163
								Leq	62

Receiving commercial land use									
	Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
Equipment Description	Lmax	Quantity	factor[1]	Receptor [2]	Effect[3]	(dBA)[4]	Lmax	Leq	Energy
Grader	85	1	40	375	1	0	67.5	54.8	299830.771
Excavator	85	1	40	375	1	0	67.5	54.8	299830.771
Dozer	85	1	40	375	1	0	67.5	54.8	299830.771
Front End Loader	80	1	40	375	1	0	62.5	49.8	94814.8148
Backhoe	80	1	40	375	1	0	62.5	49.8	94814.8148
								Leq	60

Commercial-Grade Mechanical Equipment Noise Calculation

As measured at the property line of noise source	Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
	Reference (dBA) 3 ft		Usage	Distance to Receptor	Ground	Shielding	Calculated (dBA)		
Equipment Description	**Lmax**	**Quantity**	**factor[1]**	**(feet)**	**Effect[2]**	**(dBA)[3]**	**Lmax**	**Leq**	**Energy**
Commercial grade mechanical ventilation equipment	78	1	80	40	1	3	41.3	40.3	10672.6871
Commercial grade mechanical ventilation equipment	78	1	80	65	1	3	34.9	34.0	2487.21702
Commercial grade mechanical ventilation equipment	78	1	80	90	1	3	30.7	29.7	936.971159
Commercial grade mechanical ventilation equipment	78	1	80	115	1	3	27.5	26.5	449.117761
Commercial grade mechanical ventilation equipment	78	1	80	140	1	3	24.9	24.0	248.925647
Commercial grade mechanical ventilation equipment	78	1	80	165	1	3	22.8	21.8	152.055425
						Lmax[4]	**41**	**Leq**	**42**

Notes:

[1] Percentage of time activity occurs each hour

[2] Soft ground terrain between project site and receptor.

[3] Shielding due to rooftop parapet/structural shielding

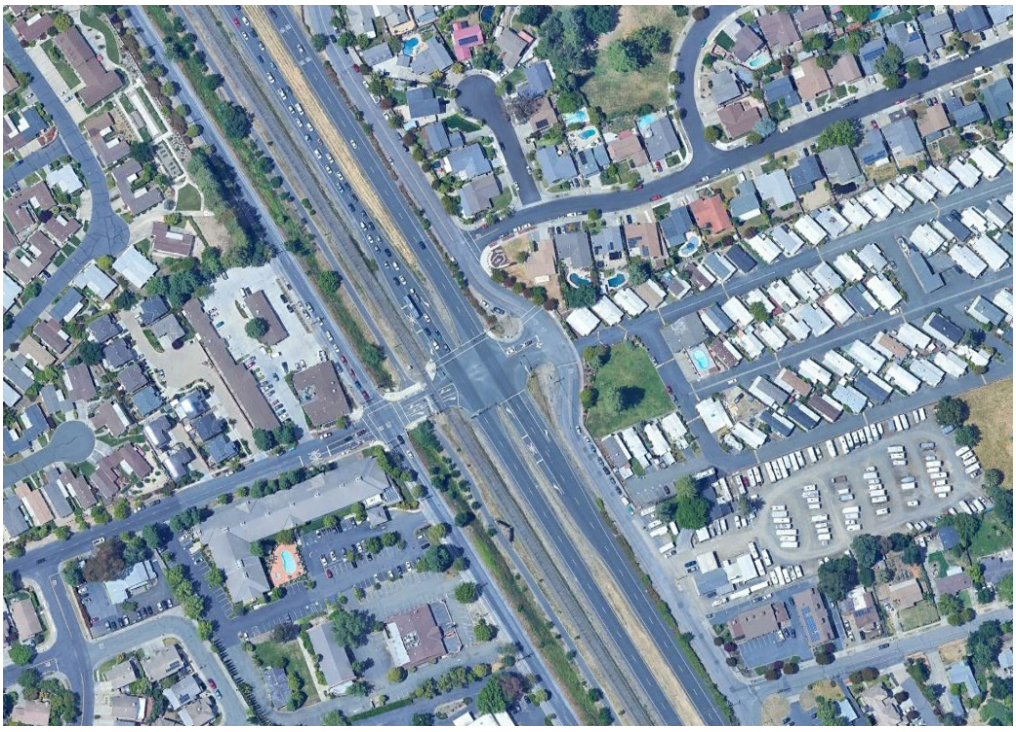
[4] Calculated Lmax is the loudest single value.

Appendix D:

Transportation Impact Study

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Transportation Impact Study for the Byway East Affordable Housing Project



Prepared for the City of Napa

Submitted by
W-Trans

September 18, 2026

TRAFFIC ENGINEERING
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Executive Summary

The Byway East Affordable project involves the construction of 178 affordable, multifamily dwelling units along with 182 off-street parking spaces on a site currently occupied by a vehicle repair shop. The location of the project site is 4124 Byway East in the City of Napa. The proposed project is expected to generate an average of 644 net new trips per day, including 40 weekday a.m. peak hour trips and 51 weekday p.m. peak hour trips after trips associated with the existing use are deducted.

The project would provide a sidewalk along the project frontage to connect to the existing pedestrian network surrounding the project site, enabling residents to walk to transit stops nearby. The project would also provide adequate bicycle storage and would not conflict with applicable policies regarding pedestrian, bicycle, and transit facilities, having a less-than-significant impact on such facilities.

The project would be expected to generate 9.02 VMT, which is below the threshold of 12.05, thereby having a less-than-significant impact on VMT.

Collisions records in the last 5 years show collisions rates at the study intersections lower than statewide averages for similar facilities. There were also no collisions involving pedestrians or bicyclists that could be attributable to roadway geometries or traffic control devices. Sight distances at the project driveways are sufficient for safe operations. A left-turn lane is not warranted on Byway East at the project driveways and the project would not cause any queue lengths to exceed available storage. The project would therefore have a less-than-significant impact on safety.

The proposed project site plan shows that the tallest portion of the project to be five stories, which triggers the need for providing aerial fire apparatus access by California Fire Code (CFC). The design of the project would need to accommodate specific emergency response vehicles per applicable CFC regulations. Designed appropriately, the project would therefore have a less-than-significant impact on emergency response.

Level of Service analyses show that the study intersections at SR-29/Wine Country Avenue, and Wine Country Avenue/Byway East-Reed Circle would be expected to operate at the same acceptable Levels of Service with or without project volumes under both existing and future volumes.

The proposed 182 parking spaces would not result in adverse safety impacts and are anticipated to adequately serve the proposed project.

Introduction

This report presents an analysis of the potential transportation impacts that would be associated with a proposed affordable housing development to be located at 4124 Byway East in the City of Napa. The transportation impact study was completed in accordance with the criteria established by the City of Napa and is consistent with standard traffic engineering techniques.

Prelude

The purpose of a transportation impact study is to provide City staff and policy makers with data that they can use to make an informed decision regarding the potential transportation impacts of a proposed project, and any associated improvements that would be required to mitigate these impacts to an acceptable level under the California Environmental Quality Act (CEQA), the City's General Plan, or other policies. This report provides an analysis of those items that are identified as areas of environmental concern under CEQA and that, if significant, require an environmental impact report (EIR). Impacts associated with access for pedestrians, bicyclists, and to transit; the vehicle miles traveled (VMT) generated by the project; potential safety concerns such as increased queuing in dedicated turn lanes, adequacy of sight distance, need for turn lanes, and need for additional right-of-way controls; and emergency access are addressed in the context of the CEQA criteria.

Applied Standards and Criteria

The report is organized to provide background data that supports the various aspects of the analysis, followed by the assessment of CEQA issues and then evaluation of policy-related issues. The CEQA criteria evaluated are as follows.

Would the project:

a. Conflict with a transportation program, plan, ordinance, or policy?
b. Conflict with CEQA Guidelines § 15064.3, subdivision (b)?
c. Increase transportation hazards?
d. Result in inadequate emergency access?

Project Profile

The project as proposed includes 178 affordable multifamily dwelling units on a site currently occupied by a vehicle repair shop. The location of the project site at 4124 Byway East is shown in Figure 1.



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Transportation Impact Study for the Byway East Affordable Housing Project

Figure 1 – Study Area and Existing Lane Configurations

Transportation Setting

Study Area and Periods

The study area consists of the section of Byway East fronting the project site and the project access point as well as the following intersections.

1. SR-29/Wine Country Avenue
2. Wine Country Avenue/Byway East-Reed Circle

Operating conditions during the p.m. peak period were evaluated to capture the highest potential impacts for the proposed project as well as the highest volumes on the local transportation network. The p.m. peak hour occurs between 4:00 and 6:00 p.m. and typically reflects the highest level of congestion during the homeward bound commute. Volume data for the SR-29/Wine Country Avenue was collected on Wednesday, November 12, 2025. Volume data for Wine Country Avenue/Byway East-Reed Circle was collected on Thursday, May 14, 2026. Traffic counts for both intersections were collected while local schools were in session.

Study Roadways

Byway East is a two-lane road east of SR-29 that extends from Salvador Avenue to Wise Drive and primarily serves nearby residential neighborhoods. The posted speed limit near the project site is 25 mph.

SR-29 is a four-lane regional highway and Napa County's primary north-south arterial. Near the project site, the posted speed limit is 50 mph, and the roadway carries about an average of about 40,000 daily vehicles.

Wine Country Avenue is a two-lane roadway west of SR-29 with a posted speed limit of 30 mph. It runs northeast-southwest and connects SR-29 to Dry Creek Road and Byway East.

Study Intersections

SR-29/Wine Country Avenue is a four-legged signalized intersection that is jointly controlled with Solano Avenue/Wine Country Avenue to the west. Protected left-turn phasing is provided for both directions on SR-29, and Wine Country Avenue operates with split phasing.

Wine Country Avenue/Byway East-Reed Circle-Reed Circle is immediately east of the SR-29/Wine Country Avenue intersection. Stop control is provided on all approaches except the shared leg between the two intersections, allowing traffic to flow freely when exiting SR-29/Wine Country Avenue. Eastbound Wine Country Avenue is a 60-foot segment, and the westbound approach is Reed Circle, which serves as the driveway to a mobile home park. The centerlines of Wine Country Avenue and Reed Circle are offset by approximately 20 feet.

The locations of the study intersections and the existing lane configurations and controls are shown in Figure 1.

Existing Transportation Facilities

Existing and Planned Pedestrian Facilities

Pedestrian facilities include sidewalks, crosswalks, pedestrian signal phases, curb ramps, curb extensions, and various streetscape amenities such as lighting, benches, etc. In general, a network of sidewalks, crosswalks, pedestrian signals, and curb ramps provide access for pedestrians in the vicinity of the proposed project site. Currently, no sidewalk is provided along the project frontage on the east side of Byway East. A sidewalk begins

immediately north of the site and continues to the Wine Country Avenue/Byway East-Reed Circle-Reed Circle intersection, where a north-side crosswalk is provided. That crosswalk connects to a sidewalk and another north-side crosswalk at the SR-29/ Wine Country Avenue intersection, allowing pedestrians to travel from the project site to the west side of SR-29. No sidewalks are provided on the south side of Wine Country Avenue east of SR-29 or on the west side of Byway East. The *City of Napa Pedestrian Plan* (2017) does not identify any specific pedestrian projects near the project site.

Existing and Planned Bicycle Facilities

The *Highway Design Manual*, Caltrans, 2025, classifies bikeways into four categories.

- **Class I Multi-Use Path** – a completely separated right-of-way for the exclusive use of bicycles and pedestrians with cross flows of motorized traffic minimized.
- **Class II Bike Lane** – a striped and signed lane for one-way bike travel on a street or highway.
- **Class III Bike Route** – signing only for shared use with motor vehicles within the same travel lane on a street or highway.
- **Class IV Bikeway** – also known as a separated bikeway, a Class IV Bikeway is for the exclusive use of bicycles and includes a separation between the bikeway and the motor vehicle traffic lane. The separation may include, but is not limited to, grade separation, flexible posts, inflexible physical barriers, or on-street parking.

No bicycle facilities exist in the vicinity of the project site. The closest bicycle facility is Class II bike lanes on Solano Avenue to the west of SR-29. Future Class II bike lanes on Wine Country Avenue to the west of SR-29 are recommended in the *City of Napa Bicycle Plan, 2021*.

Existing Transit Facilities

VINE Transit provides fixed-route bus service in Napa. Route E serves destinations on the east side of SR-29 between downtown Napa and Salvador Avenue, north of the project site. Route E stops on Byway East about 150 feet from the project site. The route operates from the Soscol Gateway Transit Center in downtown Napa from 7:00 a.m. to 4:30 p.m. on weekdays and from 8:00 a.m. to 4:00 p.m. on Saturdays. Weekday service runs every 30 minutes during peak periods and every 60 minutes off-peak. Saturday service runs every 60 minutes throughout the day.

VINE Transit Route 10 provides loop service between Napa Valley College and the City of Calistoga.. The nearest northbound and southbound Route 10 stops are on Solano Avenue, within walking distance of the project site via an accessible pedestrian path on the north side of Wine Country Avenue. On weekdays, Route 10 runs about every hour from 5:15 a.m. to 8:30 p.m. northbound and from 5:45 a.m. to 9:45 p.m. southbound. Saturday service runs about every hour from 6:00 a.m. to 7:00 p.m. northbound and from 7:00 a.m. to 9:30 p.m. southbound. Sunday service also runs about every hour from 6:00 a.m. to 7:00 p.m. northbound and from 7:00 a.m. to 8:15 p.m. southbound.

Two bicycles can be carried on most VINE Transit buses. Bike rack space is on a first come, first served basis. Additional bicycles are allowed on VINE Transit buses at the discretion of the driver.

Dial-a-ride, also known as paratransit, or door-to-door service, is available for those who are unable to independently use the transit system due to a physical or mental disability. VINE Transit operates VINE Go paratransit services within three-quarters of a mile of their fixed route network. Paratransit is designed to serve the needs of individuals with disabilities within the City of Napa and the greater Napa County area.

Collision History

The collision history for the study area was reviewed to determine any trends or patterns that may indicate a safety issue. Collision rates were calculated based on records available from the California Highway Patrol as published in their Statewide Integrated Traffic Records System (SWITRS) reports. The most current five-year period available is January 1, 2020, through December 31, 2024.

As presented in Table 1, the calculated collision rates for the study intersections were compared to statewide average collision rates for similar facilities reported in the 2023 Collision Data on California State Highways published by the California Department of Transportation (Caltrans). The statewide average rates represent intersections with comparable characteristics, including area type (urban, suburban, or rural), number of approaches (three- or four-leg intersections), and traffic control type (all-way stop, two-way stop, or signalized control). The analysis indicates that both study intersections experienced collision rates below the statewide averages for comparable intersections. Detailed collision rate calculations are provided in Appendix A.

Table 1 – Collision Rates for the Study Intersections

Study Intersection	Number of Collisions (2020-2024)	Calculated Collision Rate (c/mve)	Statewide Average Collision Rate (c/mve)
1. Wine Country Ave/SR-29	23	0.50	0.55
2. Wine Country Ave/Byway East-Reed Cir	3	0.38	0.39

Note: c/mve = collisions per million vehicles entering

Pedestrian Safety

The collision history within the study area was reviewed to identify any trends or patterns that could indicate pedestrian safety concerns. During the five-year analysis period, two pedestrian-involved collisions were reported. One collision occurred at the SR-29/Wine Country Avenue intersection, where a driver struck a pedestrian who was unlawfully crossing SR-29 at night while the driver had the right-of-way. The second collision occurred at the Wine Country Avenue/Byway East-Reed Circle intersection, where a vehicle exiting a driveway failed to yield to a pedestrian crossing the driveway on the sidewalk. Based on the available collision reports, both incidents were attributable to driver or pedestrian error rather than deficiencies in intersection design, roadway geometry, or traffic control devices.

Bicyclist Safety

Collision records within the study area were reviewed to identify any bicyclist-involved crashes. During the five-year analysis period, no bicycle-involved collisions were reported at either of the two study intersections. It should be noted that no dedicated bicycle facilities are currently provided in the vicinity of either intersection.

Project Data

The project as proposed includes 178 affordable multifamily dwelling units on a site currently occupied by a vehicle repair shop. The proposed project site plan is shown in Figure 2.

Trip Generation

The anticipated trip generation for the proposed project was estimated using standard rates published by the Institute of Transportation Engineers (ITE) in *Trip Generation Manual*, 12th Edition, 2025, for "Affordable Housing" (ITE LU #223). The site is currently occupied by an auto repair shop, deductions were applied. As shown in , the proposed project is expected to generate an average of 644 trips per day, including 40 trips during the a.m. peak hour and 51 trips during the p.m. peak hour.

Table 2 – Trip Generation Summary

Land Use	Units	Daily		AM Peak Hour				PM Peak Hour			
		Rate	Trips	Rate	Trips	In	Out	Rate	Trips	In	Out
Existing											
Auto Care Center	-6.255 ksf	33.89	-212	3.87	-24	-16	-8	4.90	-31	-14	-17
Proposed											
Affordable Housing	178 du	4.81	856	0.36	64	19	45	0.46	82	48	34
Total Net-New Trips			**644**		**40**	**3**	**37**		**51**	**34**	**17**

Note: du = dwelling unit; ksf = 1,000 square feet

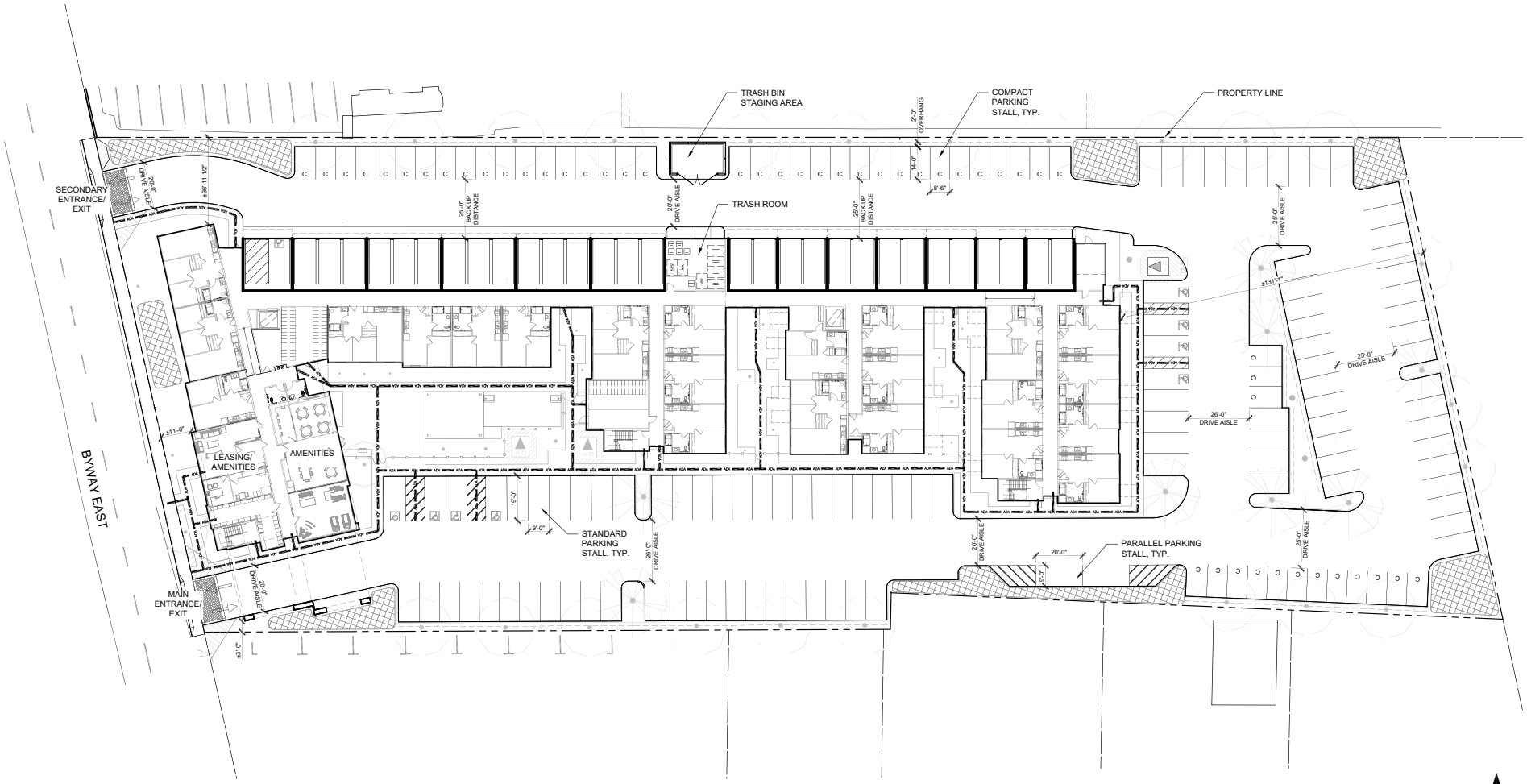
Because the project would generate fewer than 50 trips during the a.m. peak hour, an operational analysis of this period is not required under the City's guidelines. An operational analysis is, however, required for the p.m. peak hour.

Trip Distribution

The pattern used to allocate new project trips to the street network was determined by reviewing home-to-work travel patterns for residents of the City. Based on this data, project trips were distributed primarily to the south, with 60 percent of trips traveling to/from the south on SR-29. The remaining 40 percent would be split 30/10 between SR-29 to/from the north and Jefferson Street to/from the south. The applied distribution assumptions and resulting trips are shown in Table 3.

Table 3 – Trip Distribution Assumptions

Route	Percent	Daily Trips	PM Trips
SR-29 from/to the South	60%	386	30
SR-29 from/to the North	30%	193	16
Jefferson St from/to the South	10%	65	5
TOTAL	**100%**	**644**	**51**



Source: RESI Architecture, Inc, 9/17

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Transportation Impact Study for the Byway East Affordable Housing Project

Figure 2 – Site Plan

Circulation System

This section addresses the first transportation bullet point on the CEQA checklist, which relates to the potential for a project to conflict with a transportation program, plan, ordinance, or policy.

Pedestrian Facilities

Relevant Policies

The following policy related to pedestrian and bicycle facilities in the City of Napa is included in the City's 2040 General Plan:

> "**TE 3-7** Implement bicycle and pedestrian improvements during proposed development review in accordance with the City of Napa Bicycle Plan and City of Napa Pedestrian Plan where feasible and appropriate."

The project frontage currently lacks sidewalk facilities. However, sidewalks are provided along adjacent properties and connect to bus stops on Solano Avenue via a signalized crosswalk across SR-29. According to the City of Napa Pedestrian Plan, the project frontage represents the only missing sidewalk segment within the pedestrian network serving the surrounding neighborhood block in the vicinity of the project site.

Site Design

According to the project site plan, a new sidewalk would be installed along the project frontage, connecting to existing sidewalks on both sides of the project site.

Project Impacts on Pedestrian Facilities

By installing a sidewalk at the project frontage to connect to the existing pedestrian network, residents from the proposed development as well as neighbors nearby would be able to walk to/from bus stops on both sides of SR-29.

Finding – By installing a sidewalk at the project frontage, the project would not conflict with any policies related to pedestrian facilities.

Bicycle Facilities

Relevant Policies

The same policy TE-3 in *City of Napa General Plan 2040* shown above also applies to bicycle facilities. However, there are neither existing nor planned bicycle facilities on Byway East according to the *City of Napa Bicycle Plan 2019*.

The City of Napa Municipal Code does not specify requirements for residential developments to have on-site bicycle parking facilities, but mandatory bicycle parking requirements for multifamily residential projects are included in the latest *California Green Building Code* (CALGreen), which has been in effect since January 2026:

> **4.106.4.4.1 Short-term bicycle parking for multifamily buildings, hotels and motels.**

Provide on-site bicycle parking at a ratio of one parking space for every 10,000 square feet. but not less than two spaces. Acceptable parking facilities shall be conveniently accessed from the street and may include, but not be limited to:

1. Permanently anchored bicycle parking devices, racks, or lockers in an unsheltered, open area.
2. Covered or uncovered enclosures with permanently anchored bicycle parking devices or racks.

4.106.4.4.2 Long-term bicycle parking for multifamily buildings.

Provide on-site bicycle parking at a ratio of one parking space for every two dwelling units. Acceptable parking facilities shall be conveniently accessed from the street and may include, but not be limited to:

1. Covered, lockable enclosures with permanently anchored bicycle parking devices or racks.
2. Lockable bicycle storage rooms with permanently anchored bicycle parking devices or racks.
3. Lockable, weatherproof, permanently anchored bicycle lockers.

Site Design

The project site plan shows that the total of all dwelling units of the apartment building is 114,327 square feet, translating to 12 short-term bicycle parking spaces to meet CALGreen requirements. The building would house 178 multifamily dwelling units, requiring 89 long-term bicycle parking spaces. The site plan of the project shows that 12 permanently anchored bicycle parking devices are provided at three different open areas (4 spaces at each spot) surrounding the apartment building. Two covered structures housing a total of 89 bicycle stalls are included in the site plan. Thus, bicycle parking facilities as shown on the project site plan comply with CALGreen requirements.

Project Impacts on Bicycle Facilities

Although there are neither existing nor planned bicycle facilities in vicinity of the project site, bicyclists can ride on the eight-foot shoulder on northbound Byway East to get to bus stops at Solano Avenue/Wine Country Avenue. As discussed in Collision History, there have been no collision involving bicycles in the last 5 years. By providing CALGreen-compliant bicycle parking facilities on-site, the proposed project facilitates biking to transit stops, contributing to regional VMT reduction.

Finding – The project would not conflict with applicable policies regarding bicycle facilities.

Transit Facilities

Relevant Policies

The project site is about 150 feet from the nearest bus stop on Byway East at Reed Circle for Route E of VINE Transit. In addition, VINE Route 10 is available approximately 800 feet from the project site at stops on Solano Avenue on the other side of SR-29. The *Short-Range Transit Plan*, Napa Valley Transportation Authority, September 2022, does not identify any modifications to transit service in the vicinity of the project site.

Site Design

The project would not modify Byway East or Wine Country Avenue in a manner affecting the ability of VINE Transit to operate in the area.

Impact on Transit Facilities

As the project would not interfere with the ability for VINE Transit to provide transit service in vicinity of the project site, and there are no planned changes that would require the site to accommodate future transit or facilities, the project would not significantly impact adopted policies regarding transit.

Finding – The project would be consistent with policies related to transit facilities.

Significance Finding – The proposed project would not conflict with any plans or policies for the City's multimodal transportation facilities. It would therefore have a less-than-significant impact on these facilities.

Vehicle Miles Traveled (VMT)

The potential for the project to conflict with CEQA Guidelines § 15064.3, subdivision (b) was evaluated based the project's anticipated VMT.

Data Sources and Thresholds of Significance

Source of VMT Data

VMT projections for the City of Napa were obtained from the Solano Napa Activity-Based Model, or SNABM, which is the regional travel demand model jointly operated by the Napa Valley Transportation Authority (NVTA) and Solano Transportation Authority (STA). VMT data obtained from the SNABM is used to assess the potential transportation impacts associated with development projects in the City of Napa and has also been used in the preparation of environmental documents for program-level plans including the City of Napa 2040 General Plan EIR.

City-Adopted Thresholds

The City of Napa adopted the following VMT thresholds of significance for analyzing transportation impacts under CEQA in May 2021.

- Residential Projects: A proposed project exceeding a level of 15 percent below existing regional VMT per capita may indicate a significant transportation impact.

Project VMT Assessment

The SNABM estimates VMT for traffic analysis zones (TAZs) throughout Napa County based on existing land use and travel characteristics. Based on data from the Solano Napa Activity-Based Model (SNABM), Napa County has an average VMT per capita of 14.18 miles. Consistent with City policy, a residential project would result in a less-than-significant VMT impact if it generates VMT that is at least 15 percent below the countywide average, equivalent to 12.05 miles per capita or less. The project site is located within TAZ 12, which has a baseline VMT per capita of 12.24 miles. This value is slightly above the City's significance threshold of 12.05 miles per capita.

The SNABM-based analysis assumes that future residents of the project would exhibit travel behavior similar to that of existing development within TAZ 12. However, the proposed project consists of 178 multifamily affordable housing units, a land use type that has been shown to generate lower vehicle travel than conventional residential development. The California Governor's Office of Planning and Research (OPR), in the *Transportation Impacts (SB 743) CEQA Guidelines Update and Technical Advisory* (2018), notes that affordable housing in infill locations typically improves the jobs-housing balance, shortens commute distances, and reduces VMT.

To more accurately estimate project-generated VMT, the methodology described in *Income, Location Efficiency, and VMT: Affordable Housing as a Climate Strategy* (California Housing Partnership, 2015) was applied. This methodology, which is also utilized by the City of San Jose, estimates VMT reductions associated with affordable housing developments. Because all 178 proposed units would be affordable and offered at below-market-rate rents, the project is expected to achieve a 26.3 percent reduction in VMT relative to the baseline TAZ value.

Applying this adjustment results in an estimated project VMT of 9.02 miles per resident, which is well below the City's significance threshold of 12.05 miles per capita. Accordingly, although the unadjusted TAZ-based VMT estimate slightly exceeds the threshold, consideration of the project's affordable housing characteristics supports the finding of less-than-significant VMT impacts. The results of this analysis are summarized in Table 4.

Table 4 –Vehicle Miles Traveled Analysis Summary

VMT Metric	Baseline VMT Rate (Countywide Avg)	Threshold (15% Below Countywide Avg)	Project VMT Rate		
			Base Unadjusted (TAZ 98)	With Adjustments	Significance Finding
Residential VMT per Capita (Countywide Baseline)	14.18	12.05	12.24	9.02	Less-than-significant

Note: VMT Rate is measured in VMT per Capita, or the number of daily miles driven per resident; TAZ=Traffic Analysis Zone

Safety Issues

The potential for the project to impact safety was evaluated in terms of the adequacy of sight distances and need for turn lanes at the project driveway. This section addresses the third transportation bullet on the CEQA checklist which is whether the project would increase transportation hazards or not.

Site Access

According to the project site plan, access to the project would be provided via two driveways along Byway East separated by approximately 180 feet. The proposed driveways have been designed to accommodate operations by standard ladder fire trucks used by the City of Napa Fire Department.

Sight Distance

Sight distance at the two proposed driveways along Byway East was evaluated using the criteria contained in the California Department of Transportation (Caltrans) *Highway Design Manual* (HDM). Urban driveways are technically not subject to sight distance requirements, though the stopping sight distance requirements were applied to support safe operation. For a design speed of 25 mph, the required minimum stopping sight distance is 150 feet.

The horizontal and vertical alignment of Byway East in the vicinity of the project site is generally straight, except for a horizontal curve of approximately 10 degrees located about 150 feet north of the project frontage. At the proposed north driveway, the available sight distance to the right is approximately 170 feet, while the line of sight to the left is unobstructed. The same 170-foot distance also represents the available stopping sight distance for southbound vehicles on Byway East approaching a vehicle turning left from the north driveway. As this exceeds the minimum required stopping-sight distance of 150 feet, adequate sight lines are available.

At the proposed south driveway, the available sight distance to the right is approximately 350 feet, and the line of sight to the left is unobstructed. Therefore, the available sight distance meets the Caltrans HDM criteria.

Finding – Sight distance to the north from the project's north driveway is measured at 170 feet and sight lines to the south are approximately 350 feet. Adequate sight lines are therefore available.

Turn Lane Warrants

The need for a left-turn lane on Byway East at the project driveways was evaluated based on criteria contained in the *Intersection Channelization Design Guide,* National Cooperative Highway Research Program (NCHRP) Report No. 279, Transportation Research Board, 1985, as well as an update of the methodology developed by the Washington State Department of Transportation and published in the *Method for Prioritizing Intersection Improvements,* January 1997. The NCHRP report references a methodology developed by M. D. Harmelink that includes equations that can be applied to expected or actual traffic volumes to determine the need for a left-turn pocket based on safety issues.

After project-generated traffic is added to future volumes, a left-turn lane would not be warranted on Byway East at the project driveways during the p.m. peak hour. The warrant analysis is included in Appendix B.

Queuing

The City of Napa does not prescribe thresholds of significance regarding queue lengths. However, an increase in queue length due to project traffic was considered a potentially significant impact if the increase would cause the

queue to increase by one car length or greater out of a dedicated turn lane into a through traffic lane, or the back of queue into a visually restricted area, such as a blind corner. If queues would already be expected to extend past a dedicated turn lane or into a visually restricted area without project traffic, the addition of project traffic was considered to constitute a potentially adverse effect only if it would cause a new unacceptable condition; in other words, if the queue were already beyond the turn lane and the project would cause it to stack into an adjacent intersection or a visually restricted area, and that would not occur without the project, that would be considered an impact.

Queue lengths in the dedicated turn lanes at the SR-29/Wine Country Avenue intersection were evaluated under four scenarios: Existing, Existing plus Project, Future, and Future plus Project. Using the SIMTRAFFIC application of Synchro, the analysis averaged the projected 95th-percentile queues from ten simulation runs. In addition to the 2040 traffic volumes forecasted by the County's travel demand model, a proposed 119-room hotel development at 4175 Solano Avenue is anticipated to be operational by the horizon year and would contribute traffic to the SR-29/Wine Country Avenue intersection. Accordingly, the future scenario combined 2040 traffic forecasts from Napa/Solano travel demand model with anticipated traffic from the proposed hotel project. Additional technical details for the 2040 future scenario are provided in the Capacity Analysis section.

Table 5 summarizes the predicted queue lengths for all turning movements with dedicated lanes at this intersection. SIMTRAFFIC queue length calculations are provided in Appendix C.

Table 5 – 95th Percentile Queues in Dedicated Turn Lanes

Study Intersection Approach	Available Storage	95th Percentile Queues			
		PM Peak Hour			
		E	E+P	F	F+P
SR-29/Wine Country Ave					
Northbound left turn	275	**288**	**292**	**324**	**327**
Northbound right turn	130	**168**	**172**	**165**	**173**
Southbound left turn	160	114	147	119	144
Southbound right turn	160	128	126	**160**	**166**

Notes: Queue lengths based on t the 95th-percentile value from Synchro; all distances are measured in feet; E = Existing Conditions; E+P = Existing plus Project Conditions; F = Future Conditions; F+P = Future plus Project Conditions

Under the Existing Conditions, 95th-percentile queues in the northbound dedicated turn lanes exceed available storage. With project trips added, queues in both the northbound left- and right-turn lanes would increase by 4 feet, less than one car length.

Under Future Conditions, including forecasted 2040 traffic and traffic from the nearby proposed hotel, both northbound turn lanes are expected to exceed available storage, and the southbound right-turn lane is expected to reach storage capacity. With project trips added, queues in these saturated turn lanes would increase by less than 10 feet, or less than half a car length.

Finding – Under both Existing and Future Conditions, some dedicated turn-lane queues at SR-29/Wine Country Avenue exceed or reach available storage. Project-generated traffic would add less than one car length to these queues under both scenarios.

Significance Finding – The proposed project would not create new hazards or introduce incompatible roadway uses; therefore, its safety impact would be less than significant.

Emergency Access

The final transportation bullet on the CEQA checklist requires an evaluation as to whether the project would result in inadequate emergency access.

Adequacy of Site Access

Relevant Policies

Because the proposed apartment building would be five stories in height, the project is subject to the aerial fire apparatus access requirements of the California Fire Code (CFC). Pursuant to the CFC, buildings exceeding three stories in height must be served by at least two fire apparatus access roads. In the vicinity of the building, aerial fire apparatus access roads must provide a minimum unobstructed width of 26 feet. In addition, at least one access route with a minimum width of 26 feet must be located parallel to an entire side of the building and positioned between 15 and 30 feet from the exterior wall to accommodate aerial ladder deployment, outrigger placement, and effective operational reach.

Site Design

The proposed site plan indicates that both project driveways have been designed to accommodate the turning movements of a standard ladder truck used by the City of Napa Fire Department. Each driveway provides a 20-foot-wide entrance, which exceeds the approximately 10-foot width of a standard ladder truck. Along both sides of the apartment building, the internal drive aisles provide a minimum unobstructed width of 26 feet. On the south side of the building, the distance between the building exterior wall and the edge of the adjacent driveway is approximately 19 feet, which falls within the CFC-required range for aerial apparatus access.

Based on the project site plan, the proposed driveways and internal circulation system are consistent with applicable CFC dimensional requirements for aerial fire apparatus access. It is further assumed that the project would be designed and constructed in compliance with all applicable fire access standards contained in the City of Napa Standard Plans and Specifications. Final determination regarding the adequacy of fire apparatus access and emergency vehicle circulation remains the responsibility of the Napa Fire Department during project review and permitting.

Significance Finding – The proposed project would need to be designed to accommodate emergency response vehicles, resulting in a less-than-significant impact on emergency response.

Capacity Analysis

While no longer relevant to CEQA, in keeping with General Plan policies, the potential for the project to affect traffic operation was evaluated.

Intersection Level of Service Methodology

Level of Service (LOS) is used to rank traffic operation on various types of facilities based on traffic volumes and roadway capacity using a series of letter designations ranging from A to F. Generally, Level of Service A represents free flow conditions and Level of Service F represents forced flow or breakdown conditions. A unit of measure that indicates a level of delay generally accompanies the LOS designation.

The study intersections were analyzed using the signalized methodology published in the *Highway Capacity Manual* (HCM), Transportation Research Board, 2000. This source contains methodologies for various types of intersection control, all of which are related to a measurement of delay in average number of seconds per vehicle.

The Levels of Service for the intersection of Wine Country Avenue/Byway East-Reed Circle, which has side street stop controls, were analyzed using the "Two-Way Stop-Controlled" intersection capacity method from the HCM. This methodology determines a Level of Service for each minor turning movement by estimating the level of average delay in seconds per vehicle. Results are presented for individual movements together with the weighted overall average delay for the intersection.

The signalized methodology was applied to the intersection of SR-29/Wine Country Avenue. This method is based on factors including traffic volumes, green time for each movement, phasing, whether the signals are coordinated or not, truck traffic, and pedestrian activity. Average stopped delay per vehicle in seconds is used as the basis for evaluation in this LOS methodology. The HCM 2000 methodology was used in lieu of more recent HCM publications because of its ability to evaluate clustered intersections such as those included in this study. The *City of Napa 2040 General Plan* also documented the performance of the study intersections with HCM 2000 analysis, so this methodology allows for a direct comparison with results from the General Plan. For purposes of this study, delays were calculated using signal timing obtained from Caltrans.

The ranges of delay associated with the various levels of service are indicated in Table 6.

Table 6 – Intersection Level of Service Criteria		
LOS	**Two-Way Stop-Controlled**	**Signalized**
A	Delay of 0 to 10 seconds. Gaps in traffic are readily available for drivers exiting the minor street.	Delay of 0 to 10 seconds. Most vehicles arrive during the green phase, so do not stop at all.
B	Delay of 10 to 15 seconds. Gaps in traffic are somewhat less readily available than with LOS A, but no queuing occurs on the minor street.	Delay of 10 to 20 seconds. More vehicles stop than with LOS A, but many drivers still do not have to stop.
C	Delay of 15 to 25 seconds. Acceptable gaps in traffic are less frequent, and drivers may approach while another vehicle is already waiting to exit the side street.	Delay of 20 to 35 seconds. The number of vehicles stopping is significant, although many still pass through without stopping.
D	Delay of 25 to 35 seconds. There are fewer acceptable gaps in traffic, and drivers may enter a queue of one or two vehicles on the side street.	Delay of 35 to 55 seconds. The influence of congestion is noticeable, and most vehicles have to stop.
E	Delay of 35 to 50 seconds. Few acceptable gaps in traffic are available, and longer queues may form on the side street.	Delay of 55 to 80 seconds. Most, if not all, vehicles must stop and drivers consider the delay excessive.
F	Delay of more than 50 seconds. Drivers may wait for long periods before there is an acceptable gap in traffic for exiting the side streets, creating long queues.	Delay of more than 80 seconds. Vehicles may wait through more than one cycle to clear the intersection.

Reference: *Highway Capacity Manual,* Transportation Research Board, 2022

Traffic Operation Standards

The City of Napa established a Level of Service (LOS) Standard of mid-LOS D for all study intersections in Policy TE 5-5 of the *City of Napa 2040 General Plan*. This translates to an allowable average delay of 45 seconds at signalized intersections. Per Policy TE 5-5 of the *General Plan*, automobile LOS should not be below a mid-range LOS D, with the following exceptions:

- A mid-range LOS E is permitted in the Downtown area bounded by Soscol Avenue, First Street, California Boulevard, and Third Street; on Jefferson Street between Third Street and Old Sonoma Road; and on Silverado Trail between Soscol Avenue and First Street.
- LOS E is also permitted for signalized intersections on State Highway facilities within Napa.

The *Policy Guidelines for Traffic Impact Analysis for Private Development Review,* 2008, by the City of Napa provides the following LOS criteria for unsignalized or stop-controlled intersections:

- For unsignalized intersections, the minimum acceptable level of service recommended by the Draft Policy Document is mid-range LOS 'E'.
- For unsignalized intersections, a low-volume movement may have delays that yield LOS 'E' or 'F' but may still be considered as having "acceptable operation" by considering both total delay and LOS (defined in terms of average control delay). An intersection traffic movement at a stop-controlled approach can be deemed to have acceptable operation under the following conditions:
  - Total delay less than 4.0 vehicle-hours for single lane movement with low volume; or
  - Total delay less than 5.0 vehicle-hours for multilane movement with low volume

According to the *Policy Guidelines for Traffic Impact Analysis for Private Development Review,* when a development project causes degradation in the LOS of an intersection or roadway facility that violates the City's LOS policy guidelines, the LOS degradation shall be deemed as a potentially significant direct impact of the project. Direct impacts of a development project may include the following scenarios:

- When a signalized intersection operates at midrange LOS D (as allowed by the General Plan in most locations) or better under existing or interim baseline conditions, the addition of project trips degrades the intersection operations to LOS E or F. The project mitigation should bring the facility to operate at midrange LOS D, at a minimum.

- When a signalized intersection operates at midrange LOS E (as allowed by the General Plan in some locations and for State Highways facilities) or better under existing or interim baseline conditions, the addition of project trips degrades the intersection operations to LOS F. The project mitigation should bring the facility to operate at midrange LOS E, at a minimum.

When a development project contributes more than 50 peak hour trips to pre-existing or pre-project LOS deficiencies that fall below the City's LOS policies, the addition of such project trips shall be deemed as a potentially significant indirect impact of the project. Indirect impacts of a development project may include the following scenario:

- When a signalized intersection operates at LOS F (a violation of the General Plan LOS policy) under existing or interim baseline conditions, the addition of more than 50 peak hour project trips contributes to the continuing operational failure at the intersection. The project mitigation should bring the facility to pre-project conditions.

Existing Conditions

The Existing Conditions scenario evaluates current intersection operations during the p.m. peak hour based on existing traffic volumes and does not include project-generated traffic. Traffic counts at the SR-29/Wine Country Avenue intersection were collected on Wednesday, November 12, 2025, while counts at the Wine Country Avenue/Byway East-Reed Circle intersection were collected on Thursday, May 14, 2026. Data collection at both locations occurred while local schools were in session.

Consistent with the City's *Policy Guidelines: Traffic Impact Analysis for Private Development Review*, the traffic counts were adjusted to reflect peak traffic conditions on a Thursday in August. For the SR-29/Wine Country Avenue intersection, a day-of-week adjustment factor of 1.010 and a monthly adjustment factor of 1.067 were applied, resulting in a combined adjustment factor of 1.078. Accordingly, all turning movement volumes at this intersection were multiplied by 1.078. For the Wine Country Avenue/Byway East-Reed Circle intersection, a monthly adjustment factor of 1.064 was applied to account for data collection occurring in May. No day-of-week adjustment was required because the counts were collected on a Thursday.

Based on the adjusted traffic volumes, the signalized intersection of SR-29/Wine Country Avenue operates at Level of Service (LOS) E during the p.m. peak hour, which is considered acceptable for a state highway under City of Napa standards. The stop-controlled approaches at the Wine Country Avenue/Byway East-Reed Circle intersection operate at LOS B during the p.m. peak hour, indicating satisfactory operating conditions. The westbound approach, which serves a private driveway to a mobile home park, at the Wine Country Avenue/Byway East-Reed Circle intersection is treated as a free-movement approach because HCM 2000 methodologies for stop-controlled intersection analysis are limited to two-way stop-controlled or all-way stop-controlled configurations. As a result, LOS and control delay for a three-way stop-controlled configuration such as this cannot be directly estimated using HCM 2000 procedures. Accordingly, the westbound approach is excluded from the LOS calculation.

The existing traffic volumes are shown in Figure 3. A summary of the intersection Level of Service calculations is contained in Table 7, and copies of the calculations are provided in Appendix D.

Table 7 – Existing PM Peak Hour Intersection Levels of Service		
Study Intersection ***Approach***	**Delay**	**LOS**
1. SR-29/Wine Country Ave	68.3	E
2. Wine Country Ave/Byway East	8.0	A
Northbound (Byway East) Approach	*13.3*	*B*
Southbound (Byway East) Approach	*12.5*	*B*

Notes: Delay is measured in average seconds per vehicle; LOS = Level of Service; Results for minor approaches to two-way stop-controlled intersections are indicated in *italics*

Future Conditions

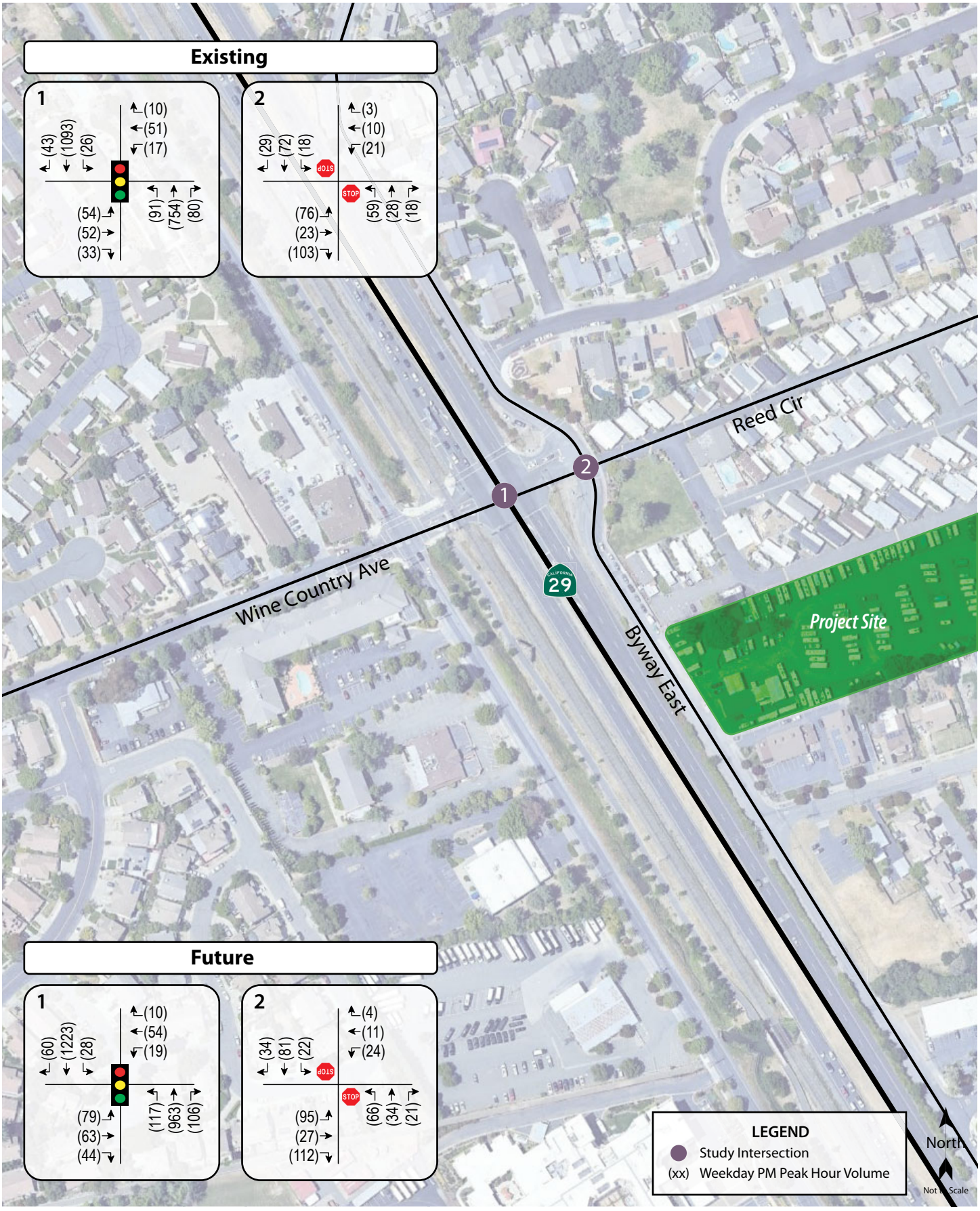
Segment traffic volumes for the 2040 horizon year were obtained from the County's travel demand model and converted to intersection turning movement volumes using the Furness method. The Furness method is an iterative traffic assignment procedure that estimates future turning movements by balancing existing turning movement counts with existing and forecasted roadway segment volumes.

For the Future Conditions, a proposed 119-room Paradigm Hotel development at 4175 Solano Avenue is anticipated to be operational by the 2040 horizon year and would contribute traffic to the SR-29/Wine Country Avenue intersection. The future turning movement volumes at the SR-29/Wine Country Avenue intersection were developed by combining the 2040 model-forecasted turning movements with the project-generated turning movements for the proposed hotel, as documented in the hotel's traffic impact study report.

Under the anticipated Future Conditions, SR-29/Wine Country Avenue maintains an acceptable LOS E and the stop-controlled approaches of Wine Country Avenue/Byway East-Reed Circle also remain at LOS B. Future volumes are shown in Figure 3 and operating conditions are summarized in Table 8.

Table 8 – Future PM Peak Hour Intersection Levels of Service		
Study Intersection ***Approach***	**Delay**	**LOS**
1. SR-29/Wine Country Ave	77.0	E
2. Wine Country Ave/Byway East -Reed Circle	8.4	A
Northbound (Byway East) Approach	*14.0*	*B*
Southbound (Byway East) Approach	*13.1*	*B*

Notes: Delay is measured in average seconds per vehicle; LOS = Level of Service; Results for minor approaches to two-way stop-controlled intersections are indicated in *italics*



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Figure 3 – Existing and Future Traffic Volumes

Project Conditions

Existing plus Project Conditions

Upon the addition of project-related traffic to the existing volumes, both study intersections would maintain their existing Levels of Service during the p.m. peak hour. These results are summarized in Table 9. Existing plus Project traffic volumes are shown in Figure 4.

Table 9 – Existing and Existing plus Project PM Peak Hour Intersection Levels of Service

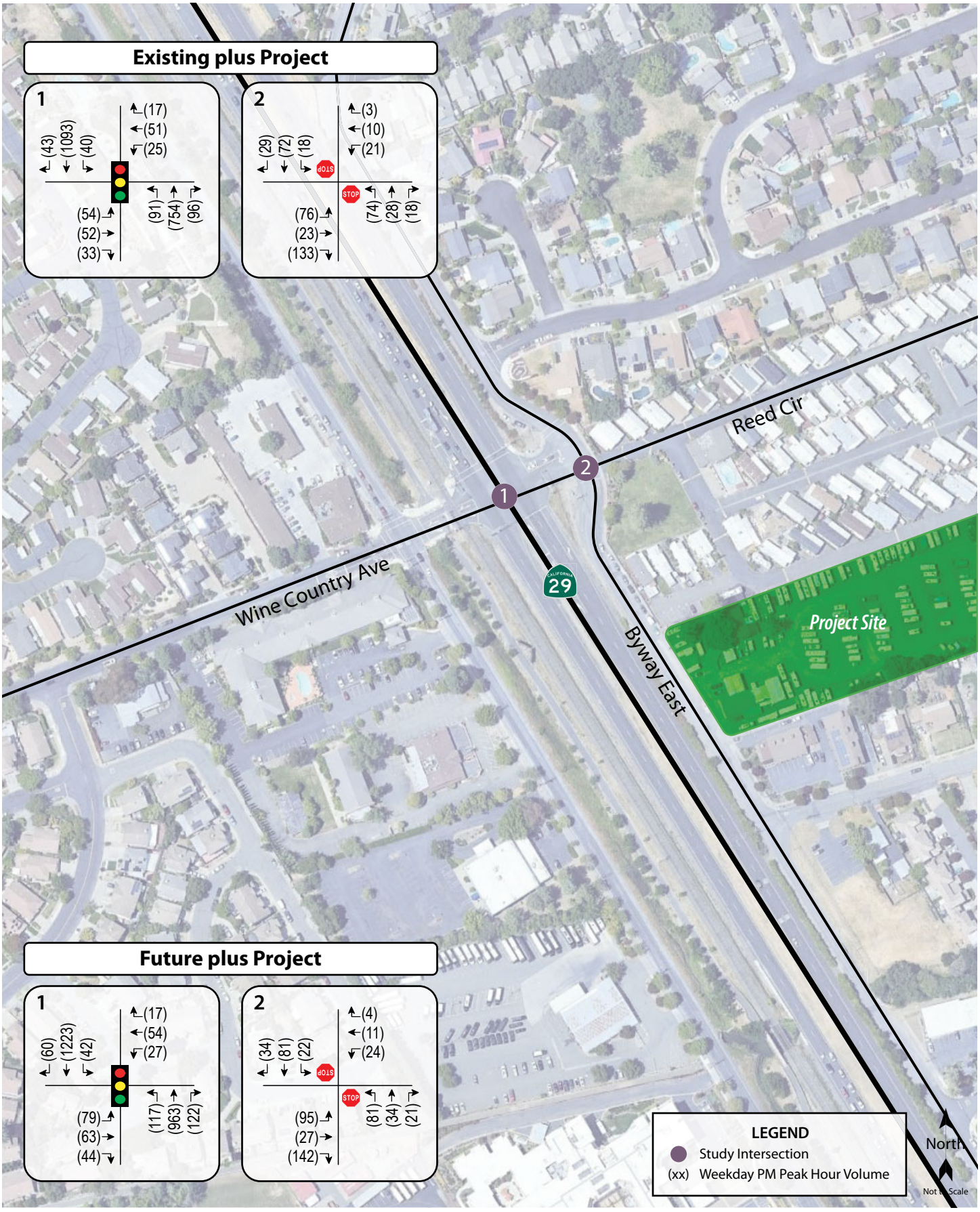
Intersection *Approach*	Existing		Existing plus Project	
	Delay	LOS	Delay	LOS
1. SR-29/Wine Country Ave	68.3	E	68.8	E
2. Wine Country Ave/Byway East (NB)	8.0	A	7.7	A
Northbound (Byway East) Approach	*13.3*	*B*	*14.4*	*B*
Southbound (Byway East) Approach	*12.5*	*B*	*12.8*	*B*

Notes: Delay is measured in average seconds per vehicle; LOS = Level of Service; Results for minor approaches to two-way stop-controlled intersections are indicated in *italics*

Finding – Both the SR-29/Wine Country Avenue and Wine Country/Byway East intersections would operate at acceptable Levels of Service under the Existing plus Project Conditions. Adding project-generated traffic to the two study intersections would not change the service level at either intersection.

Future plus Project Conditions

With project-generated traffic added to anticipated future volumes, the study intersections are still expected to operate at acceptable service levels. Control delay under the Future plus Project Conditions is slightly lower than under the Future Conditions because some project trips are added to movements that are underutilized. This small increase in traffic can optimize overall intersection utilization and reduce average control delay for the intersection. Table 10 summarizes Future plus Project operating conditions, and Figure 4 shows the corresponding volumes.



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Transportation Impact Study for the Byway East Affordable Housing Project

Figure 4 – Existing plus Project and Future plus Project Traffic Volumes

Table 10 – Future and Future plus Project PM Peak Hour Intersection Levels of Service					
Intersection	***Approach***	**Future**		**Future plus Project**	
		Delay	**LOS**	**Delay**	**LOS**
1.	SR-29/Wine Country Ave	77.0	E	77.9	E
2.	Wine Country Ave/Byway East-Reed Circle (NB)	8.4	A	8.4	A
	Northbound (Byway East) Approach	*14.0*	*B*	*15.0*	*B*
	Southbound (Byway East) Approach	*13.1*	*B*	*13.4*	*B*

Notes: Delay is measured in average seconds per vehicle; LOS = Level of Service; Results for minor approaches to two-way stop-controlled intersections are indicated in *italics*

Finding – Both the SR-29/Wine Country Avenue and Wine Country/Byway East intersections would operate at acceptable service levels under the Future plus Project Conditions. Adding project-generated traffic to the two study intersections would not change the LOS at either intersection.

Parking Analysis

The proposed project consists of 178 multifamily affordable-housing units, including 110 one-bedroom units and 68 two-bedroom units. The project proposes 182 off-street parking spaces, equivalent to approximately 1.02 spaces per dwelling unit. Napa Municipal Code Chapter 17.54 requires conventional multifamily development to provide 1.25 spaces per one-bedroom unit, 1.5 spaces per two-bedroom unit, and one guest space per four dwelling units. Application of these rates results in a requirement of 284 parking spaces for the project, consisting of 102 spaces for the one-bedroom units, 138 spaces for the two-bedroom units, and 45 guest spaces.

Because the project is proposed as a 100% affordable housing development, the project qualifies for reduced parking requirements under the California Density Bonus Law (Government Code Section 65915). Per Government Code Section 65915(p)(1), a local agency may not require more than one parking space for each studio or one-bedroom unit and 1.5 spaces for each two- or three-bedroom unit. No additional parking is required for guests as these spaces cover parking for both residents and guests. Application of these ratios would result in a maximum requirement of 212 parking spaces, consisting of 110 spaces for the one-bedroom units and 102 spaces for the two-bedroom units. In addition, Government Code Section 65915(e) provides that a city, county, or city and county may not apply any development standard that will have the effect of physically precluding the construction of a qualifying affordable development at the densities permitted by the California Density Bonus Law. As a qualifying 100 percent affordable development, the proposed project is eligible to request a waiver or reduction of any development standard, including minimum parking requirements, that would physically preclude construction of the project as proposed. Compliance with local standards would require additional parking and reduce developable area, thus physically preventing the construction of the proposed project at the proposed density, including the 178 affordable housing units. For the requested parking reduction to qualify as a waiver, the reduced parking supply cannot have a specific, adverse impact on public health or safety that cannot feasibly be mitigated without rendering the project unaffordable. Based on the engineering analysis conducted for this study, it was determined that providing 182 spaces for the proposed 178-unit affordable housing development would not result in an adverse safety impact in the vicinity of the project site.

According to ITE *Parking Generation* 6th Edition, the average weekday daily parking generation rate for an affordable housing development is 0.36 vehicles/dwelling unit. Thus, the anticipated parking demand is 64 parking spaces. For comparison, the parking demand rate for a typical market rate, mid-rise multifamily development is 1.23 space per unit. Thus, an affordable housing development is expected to generate only about 30 percent of the demand when compared to a typical multifamily apartment. As such, the proposed parking supply of 182 spaces is anticipated to meet the daily parking demand of the residents.

Findings: The proposed project qualifies for reduced parking requirements under the California Density Bonus Law (Government Code Section 65915). The proposed supply of 182 spaces is anticipated to adequately serve the 178 unit development.

Conclusions

Conclusions

- The proposed project would be expected to generate an average of 644 net new daily trips, including 40 during the a.m. peak hour and 51 during the weekday p.m. peak hour.
- The proposed project would not conflict with any plans, ordinances, or policies for transportation facilities and is expected to have a less-than-significant impact on alternative modes of transportation.
- The project would be expected to have a less-than-significant impact on VMT.
- The project would have a less-than-significant impact on safety.
- Proposed design of the project site would need to accommodate emergency response vehicles. The project would therefore have a less-than-significant impact on emergency response.
- SR-29/Wine Country Avenue, and Wine Country Avenue/Byway East-Reed Circle would be expected to operate at the same acceptable Levels of Service with or without project volumes under both existing and future conditions.
- The proposed 182 parking spaces would not result in adverse safety impacts and is anticipated to adequately serve the proposed project.

Study Participants and References

Study Participants

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References

2023 Collision Data on California State Highways, California Department of Transportation, 2023

A Policy on Geometric Design of Highways and Streets, 7th Edition, American Association of State Highway and Transportation Officials, 2018

California Building Standards Code (Title 24, California Code of Regulations), California Building Standards Commission, 2025

California Manual on Uniform Traffic Control Devices for Streets and Highways Revision 8, California Department of Transportation, 2026

California Road System (CRS) Maps, http://www.dot.ca.gov/hq/tsip/hseb/crs_maps/

California Vehicle Code, State of California, 2018, http://leginfo.legislature.ca.gov/faces/codesTOCSelected.xhtml?tocCode=VEH&tocTitle=+Vehicle+Code+-+VEH

City of Napa 2040 General Plan, City of Napa, 2022

City of Napa Bicycle Plan, City of Napa, 2021

City of Napa Pedestrian Plan, City of Napa, 2017

City of Napa Policy Guidelines: Traffic Impact Analysis for Private Development Review, City of Napa, 2005

City of Napa Traffic Level of Service (LOS) Criteria, City of Napa, 2004

Highway Capacity Manual, Transportation Research Board, 2000

Highway Capacity Manual, 7th Edition, Transportation Research Board, 2022

Highway Design Manual, Revised 7th Edition, California Department of Transportation, 2025

Napa Countywide Active Transportation Plan, 2026

Napa Municipal Code, https://ecode360.com/43423390

Napa Solano Travel Demand Model, https://sta.ca.gov/projects-plans/overview/planning-department/

Short-Range Transit Plan, Napa Valley Transportation Authority, September 2022

Statewide Integrated Traffic Records System (SWITRS), California Highway Patrol, 2020-2024

Trip Generation Manual, 12th Edition, Institute of Transportation Engineers, 2025

VINE Transit, http://www.ridethevine.com

NAP182



Appendix A

Collision Rate Calculations

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Intersection Collision Rate Worksheet

4124 Byway East

Intersection # 1: SR-29 & Wine Country Avenue
Date of Count: Thursday, May 14, 2026

Number of Collisions: 23
Number of Injuries: 21
Number of Fatalities: 1
Average Daily Traffic (ADT): 25200
Start Date: January 1, 2020
End Date: December 31, 2024
Number of Years: 5

Intersection Type: Four-Legged
Control Type: Signals
Area: Suburban

$$\text{Collision Rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x Days per Year x Number of Years}}$$

$$\text{Collision Rate} = \frac{23 \times 1{,}000{,}000}{25{,}200 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.50 c/mve**	**4.3%**	**91.3%**
Statewide Average*	**0.55 c/mve**	**0.5%**	**39.2%**

Notes
ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2023 Collision Data on California State Highways, Caltrans

Intersection # 2: Wine Country Avenue-Reed Cir & Byway East
Date of Count: Saturday, January 0, 1900

Number of Collisions: 3
Number of Injuries: 3
Number of Fatalities: 0
Average Daily Traffic (ADT): 4300
Start Date: January 1, 2020
End Date: December 31, 2024
Number of Years: 5

Intersection Type: Offset
Control Type: 4 Way Stop
Area: Suburban

$$\text{Collision Rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x Days per Year x Number of Years}}$$

$$\text{Collision Rate} = \frac{3 \times 1{,}000{,}000}{4{,}300 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.38 c/mve**	**0.0%**	**100.0%**
Statewide Average*	**0.39 c/mve**	**0.7%**	**30.6%**

Notes
ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2023 Collision Data on California State Highways, Caltrans

Appendix B

Turn Lane Warrant Analysis

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Turn Lane Warrant Analysis - Tee Intersections

Study Intersection: Byway East & Project Driveway
Study Scenario: Future plus Project

Direction of Analysis Street: North/South
Cross Street Intersects: From the East

Byway East

Northbound Volumes (veh/hr)

Through Volume = 98
Right Turn Volume = 4

Northbound Speed Limit: 25 mph
Northbound Configuration: 2 Lanes - Undivided

Project Driveway

Byway East

Southbound Volumes (veh/hr)

175 = Through Volume
30 = Left Turn Volume

Southbound Speed Limit: 25 mph
Southbound Configuration: 2 Lanes - Undivided

Northbound Right Turn Lane Warrants

1. Check for right turn volume criteria

Thresholds not met, continue to next step

2. Check advance volume threshold criteria for turn lane

Advancing Volume Threshold	AV =	1020.1
Advancing Volume	Va =	102
If AV<Va then warrant is met		No

Right Turn Lane Warranted: **NO**

Northbound Right Turn Taper Warrants
(evaluate if right turn lane is unwarranted)

1. Check taper volume criteria

NOT WARRANTED - Less than 20 vehicles

2. Check advance volume threshold criteria for taper

Advancing Volume Threshold	AV =	-
Advancing Volume	Va =	102
If AV<Va then warrant is met		-

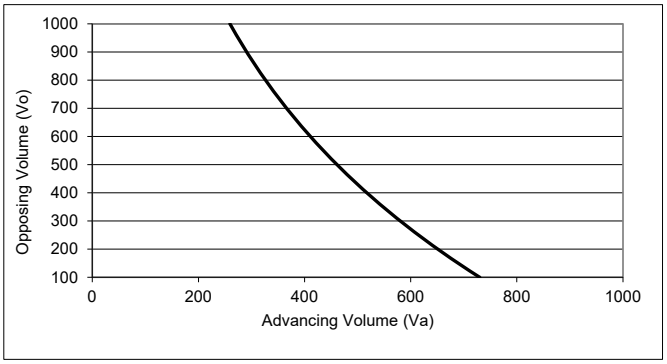
Right Turn Taper Warranted: **NO**

Southbound Left Turn Lane Warrants

Percentage Left Turns %lt 14.6 %

Advancing Volume Threshold AV 732 veh/hr

If AV<Va then warrant is met



◆ Study Intersection

Two lane roadway warrant threshold for: 25 mph

Turn lane warranted if point falls to right of warrant threshold line

Left Turn Lane Warranted: **NO**

Methodology based on Washington State Transportation Center Research Report *Method For Prioritizing Intersection Improvements*, January 1997.
The right turn lane and taper analysis is based on work conducted by Cottrell in 1981.
The left turn lane analysis is based on work conducted by M.D. Harmelink in 1967, and modified by Kikuchi and Chakroborty in 1991.

Appendix C

Queue Length Calculations

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Queuing and Blocking Report
Baseline 07/31/2026

Intersection: 2: SR-29 & Wine Country Ave

Movement	EB	EB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LT	R	LTR	L	T	T	R	L	T	T	R
Maximum Queue (ft)	94	55	141	300	611	622	155	185	567	524	185
Average Queue (ft)	29	7	63	131	315	341	61	34	326	257	32
95th Queue (ft)	70	29	123	288	536	562	168	114	503	434	128
Link Distance (ft)	83	83	123		2293	2293			1296	1296	
Upstream Blk Time (%)	1	0	2								
Queuing Penalty (veh)	1	0	0								
Storage Bay Dist (ft)				275			130	160			160
Storage Blk Time (%)				0	14	28	0	0	29	18	0
Queuing Penalty (veh)				0	13	23	0	0	8	8	0

Queuing and Blocking Report
Existing 07/31/2026

Intersection: 2: SR-29 & Wine Country Ave

Movement	EB	EB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LT	R	LTR	L	T	T	R	L	T	T	R
Maximum Queue (ft)	89	40	137	300	641	664	155	185	571	520	185
Average Queue (ft)	24	5	72	133	326	351	65	51	325	257	32
95th Queue (ft)	62	20	132	292	563	590	172	147	493	424	126
Link Distance (ft)	97	97	123		2293	2293			1299	1299	
Upstream Blk Time (%)	0		3								
Queuing Penalty (veh)	0		0								
Storage Bay Dist (ft)				275			130	160			160
Storage Blk Time (%)				0	16	30	0	0	31	19	0
Queuing Penalty (veh)				0	14	28	0	0	12	8	0

Queuing and Blocking Report
Baseline 07/31/2026

Intersection: 2: SR-29 & Wine Country Ave

Movement	EB	EB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LT	R	LTR	L	T	T	R	L	T	T	R
Maximum Queue (ft)	112	55	131	300	758	787	155	185	752	712	185
Average Queue (ft)	46	11	66	163	413	436	60	35	432	355	48
95th Queue (ft)	98	36	128	324	718	740	165	119	757	695	160
Link Distance (ft)	82	82	116		2291	2291			1366	1366	
Upstream Blk Time (%)	4	0	4						1	1	
Queuing Penalty (veh)	4	0	0						0	0	
Storage Bay Dist (ft)				275			130	160			160
Storage Blk Time (%)				1	22	35	0	0	37	27	0
Queuing Penalty (veh)				2	26	37	0	0	10	16	0

Queuing and Blocking Report
Future plus Project 07/31/2026

Intersection: 2: SR-29 & Wine Country Ave

Movement	EB	EB	WB	NB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LT	R	LTR	L	T	T	R	L	T	T	R
Maximum Queue (ft)	126	65	138	300	802	828	155	185	1003	948	185
Average Queue (ft)	45	12	77	165	426	446	66	49	491	412	50
95th Queue (ft)	100	39	137	327	753	768	173	144	900	828	166
Link Distance (ft)	94	94	116		2291	2291			1366	1366	
Upstream Blk Time (%)	4	0	5						0	0	
Queuing Penalty (veh)	4	0	0						0	0	
Storage Bay Dist (ft)				275			130	160			160
Storage Blk Time (%)				0	24	36	0	0	41	32	0
Queuing Penalty (veh)				2	28	44	0	0	17	19	0

Appendix D

Intersection Level of Service Calculations

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HCM Signalized Intersection Capacity Analysis
2: SR-29 & Wine Country Ave 06/04/2026

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	54	52	33	17	51	10	91	754	80	26	1093	43
Future Volume (vph)	54	52	33	17	51	10	91	754	80	26	1093	43
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	14	12	12	12	12	12	12	12	12	12
Total Lost time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Lane Util. Factor		1.00	1.00		1.00		1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes		1.00	0.99		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Flpb, ped/bikes		1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Frt		1.00	0.85		0.98		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected		0.98	1.00		0.99		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)		1811	1669		1809		1770	3539	1583	1770	3539	1583
Flt Permitted		0.39	1.00		0.93		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)		728	1669		1696		1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	56	54	34	18	53	10	94	777	82	27	1127	44
RTOR Reduction (vph)	0	0	28	0	3	0	0	0	53	0	0	27
Lane Group Flow (vph)	0	110	6	0	78	0	94	777	29	27	1127	17
Confl. Peds. (#/hr)	8					8						
Confl. Bikes (#/hr)			1									
Turn Type	Perm	NA	Perm	Perm	NA		Prot	NA	Perm	Prot	NA	Perm
Protected Phases		3			8		5	2		1	6	
Permitted Phases	3		3	8					2			6
Actuated Green, G (s)		29.4	29.4		36.4		12.7	58.3	58.3	19.6	65.2	65.2
Effective Green, g (s)		29.4	29.4		36.4		12.7	58.3	58.3	19.6	65.2	65.2
Actuated g/C Ratio		0.18	0.18		0.22		0.08	0.35	0.35	0.12	0.40	0.40
Clearance Time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Vehicle Extension (s)		4.0	4.0		3.0		2.0	3.0	3.0	2.0	3.0	3.0
Lane Grp Cap (vph)		129	297		374		136	1250	559	210	1398	625
v/s Ratio Prot							0.05	c0.22		0.02	c0.32	
v/s Ratio Perm		c0.15	0.00		c0.05				0.02			0.01
v/c Ratio		0.85	0.02		0.21		0.69	0.62	0.05	0.13	0.81	0.03
Uniform Delay, d1		65.7	55.9		52.5		74.2	44.2	35.1	65.1	44.3	30.5
Progression Factor		0.29	1.00		1.00		1.17	1.77	6.90	1.00	1.00	1.00
Incremental Delay, d2		38.7	0.0		0.3		8.7	1.7	0.1	0.1	5.1	0.1
Delay (s)		57.5	56.0		52.8		95.8	80.0	242.6	65.2	49.4	30.6
Level of Service		E	E		D		F	F	F	E	D	C
Approach Delay (s/veh)		57.1			52.8			95.6			49.0	
Approach LOS		E			D			F			D	

Intersection Summary				
HCM 2000 Control Delay (s/veh)	68.3	HCM 2000 Level of Service	E	
HCM 2000 Volume to Capacity ratio	0.66			
Actuated Cycle Length (s)	165.0	Sum of lost time (s)	21.3	
Intersection Capacity Utilization	68.1%	ICU Level of Service	C	
Analysis Period (min)	15			
c Critical Lane Group				

HCM Signalized Intersection Capacity Analysis
2: SR-29 & Wine Country Ave 06/04/2026

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	54	52	33	25	51	17	91	754	96	40	1093	43
Future Volume (vph)	54	52	33	25	51	17	91	754	96	40	1093	43
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	14	12	12	12	12	12	12	12	12	12
Total Lost time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Lane Util. Factor		1.00	1.00		1.00		1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes		1.00	0.99		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Flpb, ped/bikes		1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Frt		1.00	0.85		0.97		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected		0.98	1.00		0.99		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)		1811	1669		1788		1770	3539	1583	1770	3539	1583
Flt Permitted		0.44	1.00		0.90		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)		816	1669		1637		1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	56	54	34	26	53	18	94	777	99	41	1127	44
RTOR Reduction (vph)	0	0	28	0	5	0	0	0	61	0	0	26
Lane Group Flow (vph)	0	110	6	0	92	0	94	777	38	41	1127	18
Confl. Peds. (#/hr)	8					8						
Confl. Bikes (#/hr)			1									
Turn Type	Perm	NA	Perm	Perm	NA		Prot	NA	Perm	Prot	NA	Perm
Protected Phases		3			8		5	2		1	6	
Permitted Phases	3		3	8					2			6
Actuated Green, G (s)		27.9	27.9		36.3		12.7	53.8	53.8	25.7	66.8	66.8
Effective Green, g (s)		27.9	27.9		36.3		12.7	53.8	53.8	25.7	66.8	66.8
Actuated g/C Ratio		0.17	0.17		0.22		0.08	0.33	0.33	0.16	0.40	0.40
Clearance Time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Vehicle Extension (s)		4.0	4.0		3.0		2.0	3.0	3.0	2.0	3.0	3.0
Lane Grp Cap (vph)		137	282		360		136	1153	516	275	1432	640
v/s Ratio Prot							0.05	c0.22		0.02	c0.32	
v/s Ratio Perm		c0.13	0.00		c0.06				0.02			0.01
v/c Ratio		0.80	0.02		0.25		0.69	0.67	0.07	0.15	0.79	0.03
Uniform Delay, d1		65.9	57.2		53.2		74.2	48.0	38.4	60.2	42.9	29.6
Progression Factor		0.28	1.00		1.00		1.16	1.79	5.21	1.00	1.00	1.00
Incremental Delay, d2		28.0	0.0		0.4		8.8	2.4	0.2	0.1	4.4	0.1
Delay (s)		46.4	57.2		53.5		94.9	88.4	200.2	60.3	47.3	29.6
Level of Service		D	E		D		F	F	F	E	D	C
Approach Delay (s/veh)		49.0			53.5			100.5			47.1	
Approach LOS		D			D			F			D	

Intersection Summary				
HCM 2000 Control Delay (s/veh)	68.8	HCM 2000 Level of Service	E	
HCM 2000 Volume to Capacity ratio	0.65			
Actuated Cycle Length (s)	165.0	Sum of lost time (s)	21.3	
Intersection Capacity Utilization	68.4%	ICU Level of Service	C	
Analysis Period (min)	15			
c Critical Lane Group				

HCM Signalized Intersection Capacity Analysis
2: SR-29 & Wine Country Ave 07/31/2026

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	79	63	44	19	54	10	117	963	106	28	1223	60
Future Volume (vph)	79	63	44	19	54	10	117	963	106	28	1223	60
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	14	12	12	12	12	12	12	12	12	12
Total Lost time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Lane Util. Factor		1.00	1.00		1.00		1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes		1.00	0.99		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Flpb, ped/bikes		1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Frt		1.00	0.85		0.98		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected		0.97	1.00		0.99		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)		1806	1669		1810		1770	3539	1583	1770	3539	1583
Flt Permitted		0.37	1.00		0.92		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)		682	1669		1676		1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	81	65	45	20	56	10	121	993	109	29	1261	62
RTOR Reduction (vph)	0	0	39	0	3	0	0	0	54	0	0	37
Lane Group Flow (vph)	0	146	6	0	83	0	121	993	55	29	1261	25
Confl. Peds. (#/hr)	8					8						
Confl. Bikes (#/hr)			1									
Turn Type	Perm	NA	Perm	Perm	NA		Prot	NA	Perm	Prot	NA	Perm
Protected Phases		3			8		5	2		1	6	
Permitted Phases	3		3	8					2			6
Actuated Green, G (s)		23.2	23.2		39.9		14.3	66.4	66.4	14.2	66.3	66.3
Effective Green, g (s)		23.2	23.2		39.9		14.3	66.4	66.4	14.2	66.3	66.3
Actuated g/C Ratio		0.14	0.14		0.24		0.09	0.40	0.40	0.09	0.40	0.40
Clearance Time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Vehicle Extension (s)		4.0	4.0		3.0		2.0	3.0	3.0	2.0	3.0	3.0
Lane Grp Cap (vph)		95	234		405		153	1424	637	152	1422	636
v/s Ratio Prot							0.07	c0.28		0.02	c0.36	
v/s Ratio Perm		c0.21	0.00		c0.05				0.03			0.02
v/c Ratio		1.54	0.03		0.20		0.79	0.70	0.09	0.19	0.89	0.04
Uniform Delay, d1		70.9	61.2		49.9		73.9	41.0	30.5	70.1	45.9	30.0
Progression Factor		0.34	1.00		1.00		1.15	1.68	4.10	1.00	1.00	1.00
Incremental Delay, d2		283.5	0.1		0.3		13.1	1.6	0.1	0.2	8.5	0.1
Delay (s)		307.3	61.2		50.1		97.9	70.2	125.2	70.3	54.4	30.1
Level of Service		F	E		D		F	E	F	E	D	C
Approach Delay (s/veh)		249.3			50.1			77.8			53.6	
Approach LOS		F			D			E			D	

Intersection Summary				
HCM 2000 Control Delay (s/veh)	77.0	HCM 2000 Level of Service	E	
HCM 2000 Volume to Capacity ratio	0.79			
Actuated Cycle Length (s)	165.0	Sum of lost time (s)	21.3	
Intersection Capacity Utilization	71.7%	ICU Level of Service	C	
Analysis Period (min)	15			
c Critical Lane Group				

HCM Signalized Intersection Capacity Analysis
2: SR-29 & Wine Country Ave 07/31/2026

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	79	63	44	27	54	17	117	963	122	42	1223	60
Future Volume (vph)	79	63	44	27	54	17	117	963	122	42	1223	60
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	14	12	12	12	12	12	12	12	12	12
Total Lost time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Lane Util. Factor		1.00	1.00		1.00		1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes		1.00	0.99		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Flpb, ped/bikes		1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00
Frt		1.00	0.85		0.98		1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected		0.97	1.00		0.99		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)		1806	1669		1790		1770	3539	1583	1770	3539	1583
Flt Permitted		0.41	1.00		0.89		0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)		768	1669		1617		1770	3539	1583	1770	3539	1583
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	81	65	45	28	56	18	121	993	126	43	1261	62
RTOR Reduction (vph)	0	0	39	0	5	0	0	0	57	0	0	37
Lane Group Flow (vph)	0	146	6	0	97	0	121	993	69	43	1261	25
Confl. Peds. (#/hr)	8					8						
Confl. Bikes (#/hr)			1									
Turn Type	Perm	NA	Perm	Perm	NA		Prot	NA	Perm	Prot	NA	Perm
Protected Phases		3			8		5	2		1	6	
Permitted Phases	3		3	8					2			6
Actuated Green, G (s)		23.2	23.2		39.9		14.3	60.5	60.5	20.1	66.3	66.3
Effective Green, g (s)		23.2	23.2		39.9		14.3	60.5	60.5	20.1	66.3	66.3
Actuated g/C Ratio		0.14	0.14		0.24		0.09	0.37	0.37	0.12	0.40	0.40
Clearance Time (s)		5.1	5.1		5.1		4.7	6.4	6.4	4.7	6.4	6.4
Vehicle Extension (s)		4.0	4.0		3.0		2.0	3.0	3.0	2.0	3.0	3.0
Lane Grp Cap (vph)		107	234		391		153	1297	580	215	1422	636
v/s Ratio Prot							0.07	c0.28		0.02	c0.36	
v/s Ratio Perm		c0.19	0.00		c0.06				0.04			0.02
v/c Ratio		1.36	0.03		0.25		0.79	0.77	0.12	0.20	0.89	0.04
Uniform Delay, d1		70.9	61.2		50.5		73.9	46.0	34.6	65.2	45.9	30.0
Progression Factor		0.33	1.00		1.00		1.15	1.75	3.82	1.00	1.00	1.00
Incremental Delay, d2		208.9	0.1		0.3		13.5	2.5	0.2	0.2	8.5	0.1
Delay (s)		232.5	61.2		50.8		98.1	82.8	132.3	65.4	54.4	30.1
Level of Service		F	E		D		F	F	F	E	D	C
Approach Delay (s/veh)		192.1			50.8			89.3			53.6	
Approach LOS		F			D			F			D	

Intersection Summary				
HCM 2000 Control Delay (s/veh)	77.9	HCM 2000 Level of Service	E	
HCM 2000 Volume to Capacity ratio	0.78			
Actuated Cycle Length (s)	165.0	Sum of lost time (s)	21.3	
Intersection Capacity Utilization	72.2%	ICU Level of Service	C	
Analysis Period (min)	15			
c Critical Lane Group				

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Memorandum

Date:	November 12, 2026
To:	Ryder Dilley, Planning Manager, City of Napa, Planning Division
From:	Laura Campion, Project Manager, FirstCarbon Solutions
Subject:	Supplemental Memorandum to the Byway East Affordable Housing Project Class 32 Exemption Analysis (PL26-0058)–Additional Concession for Mechanical and Utility Equipment Screening

PURPOSE

FirstCarbon Solutions (FCS) prepared the Byway East Affordable Housing Project Class 32 Exemption Analysis, dated September 9, 2026 (Class 32 Exemption Analysis), to evaluate whether the Byway East Affordable Housing Project (Proposed Project) qualifies for the Infill Development Exemption under California Environmental Quality Act (CEQA) Guidelines Section 15332 (Class 32). Through the planning process, the Applicant has identified a second incentive/concession under the State Density Bonus Law that is to be included as part of the Proposed Project.

This supplemental memorandum evaluates whether the additional concession would have any environmental effects or change any of the conclusions in the Class 32 Exemption Analysis. As discussed below, it does not. The Proposed Project continues to qualify for the Class 32 exemption, and none of the exceptions under CEQA Guidelines Section 15300.2 apply.

ADDITIONAL CONCESSION

As described in Section 1.3 of the Class 32 Exemption Analysis, the Proposed Project is a 100 percent affordable housing development (except for two non-restricted manager's units) that qualifies for up to five incentives or concessions, unlimited waivers or reductions of development standards, and parking reductions under Government Code Section 65915. At the time of drafting, the Class 32 Exemption Analysis identified one concession (reduction of the minimum standard parking stall width from 9 feet to 8.5 feet, per Napa Municipal Code (NMC) Section 17.54.160(A)). The Applicant now also requests the following concession:

- **Mechanical and Utility Equipment Screening:** Pursuant to Government Code Section 65915(k), the Applicant requests an incentive/concession from the mechanical and utility equipment screening requirements of NMC Section 17.08.040 and NMC Section 17.52.350. The Proposed Project requires mechanical and electrical equipment to service the building systems and operations. To otherwise accommodate the requirement to screen all mechanical and utility equipment, absent the requested incentive, the Proposed Project would need to add fencing around any ground-mounted utilities, such as transformers, to meet the requirement. The fencing, as well as its procurement, installation, and maintenance, would be an added development cost that is attributable solely to a development standard and does not contribute to the housing, services, or amenities provided to residents. Relief from the standard would allow those resources to remain dedicated to providing the Proposed Project's affordable units. As a result, the request for the concession, and relief from the City's mechanical and utility screening requirements, would achieve actual and identifiable cost reductions that would assist in providing the Proposed Project's affordable units.
- With this concession, the Proposed Project would request two concessions (parking stall width and mechanical and utility equipment screening), which is within the five incentives or concessions available to the Proposed Project. The concession would relieve the Proposed Project from a screening requirement only. It would not change the size, height, density, unit count, parking, access, footprint, utility demand, construction activities, or construction schedule described in the Class 32 Exemption Analysis, nor would it add any new ground disturbance or change the mechanical equipment evaluated in the noise analysis. The Proposed Project description in Section 1.3 of the Class 32 Exemption Analysis is therefore supplemented to include this concession.

EVALUATION OF CLASS 32 CRITERIA (CEQA GUIDELINES SECTION 15332)

Criterion (a)–General Plan and Zoning Consistency. The Class 32 Exemption Analysis concluded that the Proposed Project is consistent with the High-Density Residential General Plan designation and the Multi-Family Residential (RM) zoning district, as modified through the provisions of the State Density Bonus Law, and that incentives, concessions, and waivers authorized by Government Code Section 65915 do not render a project inconsistent with applicable General Plan or zoning requirements (*Wollmer v. City of Berkeley* (2011) 193 Cal.App.4th 1329). The screening concession is requested pursuant to the same statute, and the same reasoning applies. The concession does not alter the General Plan land use designation, density, or any General Plan policy. Therefore, the Proposed Project remains consistent with Criterion (a).

Criterion (b)–Project Location, Size, and Context. The concession does not change the location, the approximately 2.61-acre site size, or the urban surroundings of the Project Site. The Proposed Project remains within city limits, on a site of no more than five (5) acres, substantially surrounded by urban uses.

Criterion (c)–Endangered, Rare, or Threatened Species. The concession would not involve additional ground disturbance, vegetation removal, or changes to the development footprint. The Project Site remains highly disturbed and has no value as habitat for endangered, rare, or threatened species.

Criterion (d)–Traffic, Noise, Air Quality, and Water Quality.

- **Traffic:** The concession does not affect the number of dwelling units, trip generation, vehicle miles traveled, driveways, or emergency access. The conclusions of the Transportation Impact Study summarized in the Class 32 Exemption Analysis are unchanged.
- **Air Quality:** The concession does not alter construction activities, schedule, or equipment, or operational emissions sources. The construction and operational emissions and health risk results in Tables 3 through 6 of the Class 32 Exemption Analysis are unchanged. Any minor fence installation that would otherwise have been required would have been a negligible activity, so its omission does not affect the emissions results.
- **Noise:** The Class 32 Exemption Analysis evaluated operational noise from new mechanical ventilation equipment and concluded that levels would attenuate to approximately 42 A-weighted decibels (dBA) equivalent sound level (Leq) at the nearest property line, below the City's most stringent nighttime performance threshold of 45 dBA Leq. That analysis assumed only minimal shielding from the proposed rooftop parapet and did not rely on screening or fencing to reach any conclusion. Removing the screening requirement therefore does not change the modeled noise levels, and the impact would remain less than significant.
- **Water Quality:** The concession would not add impervious surface, change drainage patterns, or alter the stormwater treatment features described in the Class 32 Exemption Analysis. Compliance with the Construction General Permit, the Storm Water Pollution Prevention Plan (SWPPP), City stormwater requirements, and the Water Quality Management Plan (WQMP) would continue to apply. The omission of fencing would not affect water quality.

Criterion (e)–Utilities and Public Services. The concession relates only to the visual screening of mechanical and utility equipment. It does not change utility demand, the connections to existing water, sanitary sewer, and stormwater facilities beneath Byway East, or the demand for public services. The Project Site can continue to be adequately served by all required utilities and public services.

EVALUATION OF EXCEPTIONS (CEQA GUIDELINES SECTION 15300.2)

The concession does not change the analysis of exceptions in Section 3 of the Class 32 Exemption Analysis. With respect to Exception (b), Cumulative Impact, the concession would not result in any project-specific significant impact and would not contribute to a cumulatively considerable effect. With respect to Exception (c), Significant Effect Due to Unusual Circumstances, relief from a screening requirement for typical residential building mechanical and electrical equipment is not an unusual circumstance, and no unusual site conditions or project characteristics have been identified that would

create a reasonable possibility of a significant environmental effect. With respect to Exception (d), Scenic Highways, the nearest officially designated State Scenic Highway (a portion of State Route [SR] 12) is approximately 9.17 miles from the Project Site, and the Proposed Project would not damage scenic resources within a State Scenic Highway. The concession does not affect the Project Site's status with respect to Exception (e), Hazardous Waste Sites, because the Project Site is not on any list compiled pursuant to Government Code Section 65962.5. With respect to Exception (f), Historical Resources, the concession involves no additional ground disturbance, and the findings of the Phase I Cultural Resources Assessment (Phase I CRA) and Historic Resources Evaluation (HRE) remain applicable, including the voluntary Worker Environmental Awareness Program (WEAP) training. Exception (a), Location, does not apply to Class 32 exemptions.

CONCLUSION

The additional concession requested pursuant to Government Code Section 65915(k) from the mechanical and utility equipment screening requirements of NMC Sections 17.08.040 and 17.52.350 does not change the Proposed Project's physical characteristics, construction activities, or operational characteristics. It also does not change any of the analyses or conclusions in the Class 32 Exemption Analysis. The Proposed Project, including all requested concessions, continues to meet all of the criteria of CEQA Guidelines Section 15332 and is not disqualified by any of the exceptions under CEQA Guidelines Section 15300.2. Accordingly, the Proposed Project remains exempt from further environmental review under CEQA pursuant to the Infill Development Categorical Exemption (CEQA Guidelines § 15332).

Please contact me if you have any questions regarding this supplemental memorandum.

Sincerely,



Laura Campion, Project Manager
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Walnut Creek, CA 94597