DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT

ASPEN VIII & IX MINING USE PERMIT AMENDMENT PROJECT



Control Number: PLNP2024-00068
State Clearinghouse Number: 2015022062
August 2025

COUNTY OF SACRAMENTO
OFFICE OF PLANNING AND ENVIRONMENTAL REVIEW
827 7TH STREET, ROOM 225
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With Assistance From

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This Supplemental Environmental Impact Report has been prepared pursuant to the California Environmental Quality Act of 1970 (Public Resources Code Division 13). An Environmental Impact Report is an informational document which, when this Office requires its preparation shall be considered by every public agency prior to its approval or disapproval of a project. The purpose of this Supplemental Environmental Impact Report is to evaluate whether implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project would result in environmental effects that were not previously examined in the approved Aspen VIII & IX Mining Use Permit Environmental Impact Report (State Clearinghouse No. 2015022062) certified for the Aspen VIII & IX Mining Use Permit Project in 2016 by the Sacramento County Board of Supervisors.

Prepared by the
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EXECUTIVE SUMMARY

This Supplemental Environmental Impact Report (SEIR) evaluates whether implementation of the proposed Teichert Aspen VIII & IX Mining Use Permit Amendment Project (proposed project) would result in environmental effects that were not examined in the previously approved Aspen VIII & IX Mining Use Permit EIR (2016 Final EIR) certified for the Aspen VIII & IX Mining Use Permit Project (approved project) in 2016 by the Sacramento County Board of Supervisors.

This SEIR has been prepared in compliance with the California Environmental Quality Act (CEQA) (Sections 21000-21189 of the Public Resources Code) and the State CEQA Guidelines (Title 14, Sections 15000-15387 of the California Code of Regulations).

SUMMARY OF APPROVED PROJECT

The Aspen VIII & IX Mining Use Permit Project (approved project) (PLNP2014-00201) and the Final Environmental Impact Report (2016 Final EIR) (State Clearinghouse No. 2015022062) was approved and certified by the Sacramento County Board of Supervisors in 2016.

The approved project site consisted of the Aspen VIII and IX mining areas located within the Vineyard community of unincorporated Sacramento County, east of the City of Sacramento limits, south of Jackson Road, and approximately one-half mile east of Bradshaw Road. The approved project site encompassed 683 acres, of which approximately 353 acres was proposed to be excavated for aggregate materials (i.e., sand and gravel) across two mining areas, Aspen VIII and Aspen IX. The Aspen VIII mining area is approximately 255 acres and the Aspen IX mining area is approximately 98 acres.

The approved project was entitled through the Aspen VIII and IX Mining Use Permit, Community Plan Amendment and Rezone, Reclamation Plan, and Development Agreement. Under the approved entitlements, surface mining operations were approved on approximately 353 acres of the 683-acre project site for 15 years, with surface mining to be completed by December 31, 2031, and final reclamation to be completed in 2 years by December 31, 2033. In accordance with the Reclamation Plan, the approved project site is to be reclaimed to open space grassland.

The approved project also included the rezoning of 682 acres from agricultural uses to Surface Mining Combining Zone (SM); use of an electric conveyor belt system to transport mined aggregate materials from the approved project site to the Perkins Plant; an extension of Knox/Vineyard Road that runs north and south through the Aspen IX mining area; installation of a box culvert under Elder Creek Road; and landscaping along Elder Creek Road.

As mitigation for aesthetic and noise impacts, the approved project included the installation of native landscaping and berms along various boundaries of the approved project site to act as visual screening as well as to attenuate noise levels associated with surface mining operations (Adopted 2016 Final EIR Mitigation Measures AE-1 and NO-1). To mitigate for impacts to biological resources (Adopted 2016 Final EIR Mitigation Measure BR-4), the project applicant created the 92-acre Elder Creek Open Space Preserve (Preserve) as a conservation and preservation area that protects the portion of Elder Creek that flows through the Aspen VIII and Aspen IX properties, as well as associated wetland and grassland habitats immediately adjacent to the creek channel. Refer to Chapter 8, "Biological Resources," of this SEIR for more information on the Preserve. Other mitigation requirements associated with the approved project are discussed within their respective chapters of this SEIR.

The 2016 Final EIR determined that implementation of the approved project would result in less than significant impacts with mitigation incorporated, with the exception of aesthetics and air quality, which would remain significant and unavoidable even with mitigation.

SUMMARY OF THE PROPOSED PROJECT

The project applicant is requesting to expand existing surface mining and reclamation activities under the approved project by 245.64 acres adjacent to the approved project site within the Vineyard community of unincorporated Sacramento County. The project site consists of two distinct mining areas, the Aspen VIII and IX Expansion Areas. The Aspen VIII Expansion Area encompasses 63.26 acres located adjacent to the northwest boundary of the existing Aspen VIII mining area and would extend northward to the boundary of the previously mined Aspen V South site. The Aspen IX Expansion Area would encompass 182.38 acres located to the south and east of the existing Aspen IX mining area across from Elder Creek and the Elder Creek Open Space Preserve and would extend south to the Vineyard Surface Water Treatment Plant and Knox Road.

To implement the proposed project, the project applicant is proposing to amend the existing Mining Use Permit and Reclamation Plan for approved project (PLNP2014-00201), which currently permits surface mining and reclamation activities on the approved project site and use of an electric conveyor belt system to transport mined aggregate material to the existing Perkins Plant. The proposed project would also require amendments to the existing Development Agreement for the approved project. Under the proposed amended entitlements, surface mining operations would be permitted from 2026 to 2045, which would extend surface mining operations by 14 years from expiration of the existing Mining Use Permit (i.e., 2031), with final reclamation of the project site to be completed over 2 years ending in 2047. In accordance with the Amended Reclamation Plan, the project site is to be reclaimed to open space annual grassland, irrigated pasture suitable for grazing, and stormwater retention pond areas.

The proposed project also includes a new access point and staging area along Knox Road to access the Aspen IX Expansion Area; onsite well improvements and abandonment; and extension and continued use of the existing electric conveyor belt system to transport mined aggregate material to the existing Perkins Plant.

PROJECT ALTERNATIVES

Chapter 3, "Alternatives," includes an analysis of the alternatives evaluated for the approved project as evaluated within 2016 Final EIR. Based on the rationale provided within Chapter 3, there are no feasible alternatives to the proposed project beyond the No Project Alternative. When the environmentally superior alternative is the No Project Alternative, the State CEQA Guidelines (Section 15126[e][2]) require selection of an environmentally superior alternative from among the other alternatives evaluated. Therefore, the proposed project is identified as the environmentally superior alternative. Refer to Chapter 3, "Alternatives," for the detailed discussion on the proposed project's alternatives.

ORGANIZATION OF THIS SEIR

The remainder of this document includes a detailed description of the proposed project, analysis of potential environmental impacts that could result from implementation of the proposed project, discussion of cumulative and growth-inducing impacts, and evaluation of potential alternatives to the proposed project. This information is organized as detailed below:

Chapter 1, "Introduction," provides important context, including the purpose and scope of this SEIR; an overview of the public and environmental review process; and an outline of the intended use of this SEIR.

Chapter 2, "Project Description," describes the location of the proposed project, project background, existing conditions of the project site, and the nature and location of specific elements of the project.

Chapter 3, "Alternatives," describes feasible alternatives to the project, including the no project alternative.

Chapters 4–18 include a topic-by-topic analysis of impacts that would or could result from implementation of the proposed project. Each chapter includes a discussion of the environmental and regulatory setting, impact analysis, and mitigation measures.

Chapter 19, "Summary of Impacts and Other CEQA Considerations," provides an overview of the environmental evaluation, including impact conclusions and cumulative impacts.

Chapter 20, "Acronyms," lists all the acronyms used throughout this SEIR.

Chapter 21, “Bibliography,” lists all the resources used to prepare this SEIR.

Chapter 22, “Acknowledgments,” identifies the preparers of this SEIR.

The appendices contain several reference items providing support and documentation of the analyses performed for this SEIR.

TERMINOLOGY USED IN THIS SEIR

This SEIR uses the following terminology to describe environmental effects of the project.

Significance Criteria. A set of criteria used by the lead agency to determine at what level, or “threshold,” an impact would be considered significant. Significance criteria used in this SEIR include those that are set forth in the CEQA Guidelines, or can be discerned from the CEQA Guidelines; criteria based on factual or scientific information; criteria based on regulatory standards of local, state, and federal agencies; and criteria based on goals and policies identified in the Sacramento County General Plan.

Less-than-Significant Impact. A project impact is considered less than significant when it does not reach the standard of significance and would therefore cause no substantial change in the environment. No mitigation is required for less-than-significant impacts.

Potentially Significant Impact. A potentially significant project impact is a substantial, or potentially substantial, adverse change in the environment. Physical conditions which exist within the project site will be directly or indirectly affected by the proposed project. Impacts may also be short-term or long-term. A project impact is considered significant if it reaches the threshold of significance identified in the SEIR. Mitigation measures may reduce a potentially significant impact to a less-than-significant level.

Significant Unavoidable Impact. A project impact is considered significant and unavoidable if it is significant and cannot be avoided or mitigated to a less-than-significant level once the proposed project is implemented.

Cumulative Significant Impact. A cumulative impact can result when a change in the environment results from the incremental impact of a project when added to other related past, present or reasonably foreseeable future projects. Significant cumulative impacts may result from individually minor but collectively significant projects.

Mitigation. Mitigation measures are revisions to the project that would minimize, avoid, or reduce a significant effect on the environment. CEQA Guidelines Section 15370 identifies the following five types of mitigation:

a) Avoiding the impact altogether by not taking a certain action or parts of an action.
b) Minimizing impacts by limiting the degree or magnitude of the action and its implementation.

c) Rectifying the impact by repairing, rehabilitating, or restoring the impacted environment.

d) Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action.

e) Compensating for the impact by replacing or providing substitute resources or environments.

MITIGATION MONITORING AND REPORTING PROGRAM

It shall be the responsibility of the project applicant to comply with the Mitigation Monitoring and Reporting Program (MMRP) for this project and to reimburse the County for all expenses incurred in the implementation of the MMRP, including any necessary enforcement actions. The project applicant shall pay an initial deposit to be determined upon subsequent application review, including administrative costs, which must be paid to the Department of Community Development, Planning and Environmental Review Division prior to recordation of the MMRP and prior to recordation of any final parcel or subdivision map. The remaining balance will be due prior to review of any plans by the Environmental Coordinator or issuance of any building, grading, work authorization, occupancy or other project-related permits.

SUMMARY OF SIGNIFICANT IMPACTS AND MITIGATION MEASURES

The following environmental impact and mitigation summary table (Table ES-1) briefly describes the proposed project impacts and the mitigation measures recommended to eliminate or reduce the impacts. The residual impact after mitigation is also identified. Detailed discussions of each of the identified impacts and mitigation measures, including pertinent support data, can be found in the specific topic chapters in the remainder of this report.

Table ES-1: Executive Summary of Impacts and Mitigation

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
AESTHETICS			
Impact AE-1: Degradation of Existing Character or Quality of Public Views of the Project Site and Its Surroundings	S	**Revised 2016 Final EIR Mitigation Measure AE-1: Viewsheds Mitigation Measure** A. Direct views of the site shall be screened from public view through the use of landscaping. Landscaping will include the following large trees; valley oak (*Quercus lobata*) and interior live oak (*Quercus wislizenii*); and the following shrubs; western redbud (*Cercis occidentalis*), toyon (*Heteromeles arbutifolia*), hoary coffeeberry (*Rhamnus tomentella*), snowdrop bush (*Styrax officinalis*), and Howard McMinn' manzanita (*Arctostaphylus densiflora*). The placement of landscaping shall be as show in Figure 2-13, "Landscaping and Culvert Details", in the Project Description of this SEIR. The landscaping that will be installed under the large transmission towers along Elder Creek Road shall be limited to landscaping that at maturity will not exceed 15 feet in height. B. Additional berms and landscaping, or an 8-foot tall solid fence, shall be placed to screen the view of the mining pit for the benefit of those properties located southwest of the Aspen VIII Expansion Area, including the residence at 9895 Elder Creek Road, on accessor parcel number 063-0180-022, and the cemeteries at 9899 Elder Creek Road, on assessor parcel number 063-0180-029. This shall consist of a berm and landscaping combination, or a fence to visually screen, to the satisfaction of the Department of Community Development with input from the neighboring property owners.	SU

[1]PS = Potentially Significant S = Significant SU = Significant and Unavoidable LTS = Less Than Significant

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
Impact AE-2: New Sources of Light or Glare	PS	**Adopted 2016 Final EIR Mitigation Measure AE-2: Reducing Impacts Associated with Lighting Mitigation Measure** Any lighting shall be arranged and controlled so as not to illuminate public right of-ways or adjacent properties. In order to reduce direct and reflected light pollution, lighting at the project site shall be equipped with shields that concentrate the illumination downward such that no direct light is cast off the site. Energy efficient lights shall be used. The candle power of the illumination at ground level shall not exceed what is required by any safety or security regulations of any government agency with regulatory oversight of the mining operation.	LTS
AGRICULTURAL RESOURCES			
Impact AR-1: Convert Farmland to Non-Agricultural Uses	S	**Revised 2016 Final EIR Mitigation Measure AG-1: Agricultural Farmland Impacts Mitigation Measure** Prior to approval of the Work Authorization Permit, the project applicant shall demonstrate that adequate land has been set aside for the farmland converted in the Aspen VIII and IX Expansion Areas through participation in the South Sacramento Habitat Conservation Plan to offset the loss of Important Farmland with implementation of the proposed project. Acreage of land preserved shall, at a minimum, result in a 1:1 preservation ratio for the portion of the Aspen VIII and IX Expansion Areas under consideration.	SU
Impact AR-2: Conflict With Existing, Adjacent Agricultural Use and Zoning	LTS	No mitigation is required.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
AIR QUALITY			
Impact AIR-1: Result In a Net Increase in Long-term operational Emissions of Criteria Pollutants and Precursors (NO_x, ROG, PM_{10}, and $PM_{2.5}$) Exceeding SMAQMD-recommended Thresholds	S	**Adopted 2016 Final EIR Mitigation Measure AQ-1.2: Implementation of Best Available Control Technology (BACT) and Best Management Practices (BMPs) to reduce PM Emissions Mitigation Measure** Implement Basic Construction Emission Control Practices to control PM emission on and off-site, including: • All disturbed areas on site shall be treated with appropriate dust suppressants, watered regular, vegetated or otherwise treated to minimize fugitive dust. Comply with Zoning Code Section 4.8.14.H. • Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material off the site and onto public roadways. Any haul trucks that would be traveling along freeways or major roadways should be covered. • Visible trackout of mud or dirt onto adjacent public roads shall be prevented through the incorporation of rumble strips, gravel aprons, appropriate dust suppressant, long sinuous driveway, or a combination thereof. It these measures are not adequate the applicant shall work with the County and SMQAMD to implement additional measures. If Trackout is present on public roads adjacent to the mine entrances, wet power vacuum street sweepers shall be used to remove any visible trackout mud or dirt. • Limit vehicle speeds on unpaved roads to 15 miles per hour (mph). • Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by California Code of	SU

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site. • Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated. Implement Enhanced Fugitive PM Dust Control Practices for soil disturbance areas and unpaved roads, including: <u>Soil Disturbance Areas</u> • All disturbed areas on site shall be treated with appropriate dust suppressants, watered regularly, vegetated, or otherwise treated to minimize fugitive dust. • Suspend excavation, grading, and/or demolition activity when wind speeds exceed 20 mph. • Plant vegetative ground cover (fast germinating native grass seed) in disturbed areas as soon as possible. Water appropriately until vegetation is established. <u>Unpaved Roads (Entrained Road Dust)</u> • Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The phone number of the District shall also be visible to ensure compliance.	
Impact AIR-2: Result in Substantial Mobile-Source CO Concentrations	LTS	No mitigation is required.	LTS
Impact AIR-3: Exposure of Sensitive Receptors to TACs	LTS	No mitigation is required.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
Impact AIR-4: Conflict with an Air Quality Plan	PS	**Implement Adopted 2016 Final EIR Mitigation Measure AQ-1.2**	LTS
Impact AIR-5: Exposure to Odors Affecting a Substantial Number of People	LTS	No mitigation is required.	LTS
AIRPORT COMPATIBILITY			
Impact AC-1: Result in a Safety Hazard to People Living and Working in the Vicinity of an Airport	LTS	No mitigation is required.	LTS
Impact AC-2: Result in Exposure to Excessive Noise Levels Associated With Airport Operations	LTS	No mitigation is required.	LTS
Impact AC-3: Result in Effects on Safe and Efficient Use of Navigable Airspace	LTS	No mitigation is required.	LTS
BIOLOGICAL RESOURCES			
Impact BR-1: Have a Substantial Adverse Effect on Special-Status Species	PS	**Adopted 2016 Final EIR Mitigation Measure BR-1.7: Nesting Birds Protected Under the Migratory Bird Treaty Act Mitigation Measure** A. If mining activity or construction activity (which includes clearing, grubbing, or grading) is to commence within 50 feet of nesting habitat between February 1 and August 31, a survey for active migratory bird nests shall be conducted no more than 14 day prior to construction by a qualified biologist. B. Trees slated for removal shall be removed during the period of September through January, in order to avoid the nesting season. Any trees that are to be removed during the nesting season, which is February through August, shall be surveyed by a qualified biologist and will only be removed if no nesting migratory birds are found.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		C. If active nest(s) are found in the survey area, a non-disturbance buffer, the size of which has been determined by a qualified biologist, shall be established and maintained around the nest to prevent nest failure. All construction activities shall be avoided within this buffer area until a qualified biologist determines that nestlings have fledged, or until September 1. **New Mitigation Measure BR-1.13: Participate in the South Sacramento Habitat Conservation Plan Mitigation Measure** Prior to initiation of expanded surface mining activities on the project site, the project applicant shall submit an application to participate in the SSHCP. The project applicant shall obtain a USACE Section 404 permit, RWQCB 401 water quality certification, and incidental take permitting for listed covered species from CDFW and USFWS through participation in the SSHCP. The project applicant shall pay all applicable mitigation fees and shall implement all applicable AMMs. Applicable AMMs include construction best management practices (AMMs BMP-1 through BMP-11), Elder Creek stream setbacks (AMM STREAM-2), general covered species take AMMs (SPECIES-1 through SPECIES-4), covered species AMMs, any other AMMs determined to be required during the application and approval process. Applicable covered species AMMs are those required for the following species: western spadefoot (AMMs WS-1 through WS-6), tricolored blackbird (AMMs TCB-1 through TCB-5), Swainson's hawk (AMMs SWHA-1 through SWHA-5), western burrowing owl (AMMs WBO-1 through WBO-7), covered raptor species (loggerhead shrike, northern harrier, and white-tailed kite; AMMs RAPTOR-1 through RAPTOR-4), and western red bat (AMMs BAT-1 through BAT-4).	

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		New Mitigation Measure BR-1.14: Avoid Take of Burrowing Owls • On October 10, 2024, the California Fish and Game Commission accepted a petition to list western burrowing owl under CESA and designated the species as a candidate species. Pursuant to CESA, take of candidate species is prohibited. While western burrowing owl is a covered species under the SSHCP, the plan's CDFW 2081 Incidental Take Permit (ITP) does not include take coverage for the species. Pursuant to the SSHCP, the potential listing of western burrowing owl under CESA would be considered a changed circumstance that will trigger review by the SSHCP Technical Advisory Committee and an eventual amendment that will likely result in a change to the SSHCP, and addition of western burrowing owl to the SSHCP CDFW 2081 ITP. • In the interim period during which take coverage for western burrowing owl is not available through participation in the SSHCP, to avoid take of owls, the project applicant shall implement SSHCP AMMs for western burrowing owl except for AMM WBO-5, which describes passive relocation of burrowing owls, which would be considered take under CESA. • If take of western burrowing owls cannot be avoided and take coverage is not available through participation in the SSHCP, the project applicant shall obtain a separate 2081 ITP for the species prior to implementing project activities that could result in take of western burrowing owls. The impacts of taking burrowing owl shall be minimized and fully mitigated.	

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		New Mitigation Measure BR-1.15: Implement Habitat Assessment, Survey, and Avoidance Measures for Crotch's Bumble Bees • Initial ground-disturbing work (e.g., grading, vegetation removal, staging) shall take place between August 15 and March 15, if feasible, to avoid impacts on nesting Crotch's bumble bees. • Regardless of the feasibility of the above limited operating period, a qualified biologist familiar with bumble bees of California and experienced using survey methods for bumble bees shall conduct a habitat assessment and focused survey for Crotch's bumble bee before the start of any ground-disturbing activities. Surveys shall be performed when Crotch's bumble bee is most likely to be identified, typically from April through August (i.e., the colony active period) when floral resources and ideal weather conditions are present, and shall follow the methods in Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species (CDFW 2023). Surveys shall be conducted during the colony active period closest to the start of planned construction activities. Survey results shall be submitted to the project applicant and Sacramento County no less than 7 days before construction begins. • If Crotch's bumble bees are not detected during the focused survey, further mitigation shall not be required. If Crotch's bumble bees are detected during the focused survey, appropriate avoidance measures shall be implemented. Avoidance measures shall include, but not be limited to, the following:	

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		• Protective buffers shall be implemented around active nesting colonies until these sites are no longer active. A qualified biologist, in coordination with CDFW, shall determine the appropriate buffer size to protect nesting colonies; however, the buffer shall be a minimum of 50 feet. • If impacts on Crotch's bumble bee cannot be avoided, project applicant shall obtain an ITP from CDFW and shall implement all avoidance measures included in the ITP. • If Crotch's bumble bee is added to the SSHCP as a covered species at a later date, any AMMs associated with this species shall supersede these measures. If Crotch's bumble bee is added to SSHCP CDFW ITP at a later date, the project applicant shall obtain incidental take coverage for this species through participation in the SSHCP. **New Mitigation Measure BR-1.16: Avoid Removal of Milkweed during the Monarch Butterfly Breeding Season, Conduct Survey, Implement Avoidance Measures for Breeding Monarch Butterfly, or Transplant Milkweed Plants** • Removal of milkweed plants on the project site shall be avoided during the period when monarch butterfly are most likely to breed in the Sacramento region (approximately mid-March through late September). Milkweed plants on the project site that would be affected by project activities shall be transplanted during the period from October 1 through March 15, to an appropriate receptor site such as the nearby Elder Creek Preserve. If transplantation is completed prior to March 15, then further mitigation would not be required. Transplants shall be monitored for survivorship, and container stock or field-seeded plants shall be planted to achieve a net success rate	

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		of 70 percent of the number of original transplants at the end of a three-year monitoring period. • If the milkweed transplantation option above is not selected and vegetation removal would occur on the project site during the monarch butterfly breeding season (approximately mid-March through late September), a pre-construction survey shall be conducted by a qualified biologist no earlier than 10 days prior to vegetation removal within the proposed impact area plus a 50-foot buffer in accessible areas. The biologist shall comprehensively search the impact area and buffer for milkweed plants, and all milkweed plants detected shall be surveyed for monarch butterfly eggs, larvae (caterpillars), and chrysalises. Other plants (i.e., non-milkweed species) immediately adjacent to milkweed plants shall also be searched for chrysalises. If no eggs, caterpillars, or chrysalises are detected, further mitigation would not be required. • If eggs, caterpillars, or chrysalises are detected, a 50-foot buffer shall be established around the plants to prevent removal and indirect impacts until metamorphosis is completed and adult butterflies emerge and voluntarily leave the host plant. If the eggs, larvae, or chrysalises cannot be feasibly avoided during this period, all eggs, larvae, and chrysalises, including the portion of the plant to which they are attached, will be translocated to an alternative location. That location must be a minimum of 50 feet outside of the impact area and contain a similarly sized or larger population of milkweed host plants. The parts of the plants supporting eggs or chrysalises shall be tied to the live stem of the receptor plant and caterpillars will be placed directly on a stem or leaf of the receptor plant.	

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		• Should monarch butterfly be listed under ESA in the future during the life of the project, the project applicant shall coordinate with USFWS prior to translocation of eggs, larvae, or chrysalises to determine whether additional measures are required. **New Mitigation Measure BR-1.17: Implement Survey, Roost Buffer, And Exclusion Methods For Pallid Bat** The project applicant shall apply SSHCP AMMs BAT-1 through BAT-4 (which are required under the SSHCP for western red bat) to pallid bat.	
Impact BR-2: Have a Substantial Adverse Effect on Any Riparian Habitat or Other Sensitive Natural Community	LTS	No mitigation is required.	LTS
Impact BR-3: Have a Substantial Adverse Effect on State or Federally Protected Wetlands	PS	**Implement New Mitigation Measures BR-1.13 (listed under Impact BR-1) and BR-3.2** **New Mitigation Measure BR-3.2: Obtain Permits and Compensate for Impacts on State Protected Wetlands or Waters** • For impacts on waters of the state that are not also waters of the United States and are therefore not covered by the 401 Water Quality Certification or 404 permit provided through participation in the SSHCP, the project applicant shall apply to the RWQCB for Waste Discharge Requirements following the State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (SWRCB 2021). Any waters of the state that are not also waters of the United States that would be affected by the project shall be replaced or restored on a no-net-loss basis in accordance with the applicable California Water Board mitigation standards in place at the time of construction.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		• The project applicant shall notify CDFW before commencing activity that may divert the natural flow or otherwise alter the bed, bank, or riparian corridor of any 1602 jurisdictional waterway. If project activities trigger the need for a Lake and Streambed Alteration Agreement, the project applicant shall obtain an agreement from CDFW before the activity commences. The project applicant shall conduct project construction activities in accordance with the agreement, including implementing reasonable measures in the agreement necessary to protect the fish and wildlife resources, when working within the bed or bank of waterways or in riparian habitats associated with those waterways. These measures may include but not be limited to demarcation of the construction area, biological monitoring, environmental awareness training for construction crews, and compensatory measures (e.g., restoration, long-term habitat management) such that there would be no net loss.	
Impact BR-4: Adversely Affect or Result in the Removal of Native or Landmark Trees	PS	**Implement New Mitigation Measures BR-4.1 and BR-4.2** **New Mitigation Measure BR-4.1: Proposed Project Native Tree Protection and/or Compensation Mitigation Measure** The removal of 313.1 inches of native trees shall be compensated by planting native trees equivalent to the DBH inches lost, based on the ratios listed below, at locations that are authorized by the Environmental Coordinator. On-site preservation of native trees that are less than 6 inches (<6 inches) DBH, may also to meet this compensation requirement. Native trees include: valley oak (*Quercus lobata*), interior live oak (*Quercus wislizeni*), blue oak (*Quercus douglasii*), oracle oak (*Quercus morehus*), California sycamore (*Platanus racemosa*), California black walnut (*Juglans californica*),	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		Oregon ash (*Fraxinus latifolia*), western redbud (*Cercis occidentalis*), gray pine (*Pinus sabiniana*), California white alder (*Alnus rhombifolia*), boxelder (*Acer negundo*), California buckeye (*Aesculus californica*), narrowleaf willow (*Salix exigua*), Gooding's willow (*Salix gooddingii*), red willow (S*alix laevigata*), arroyo willow (*Salix lasiolepis*), shining willow (*Salix lucida*), Pacific willow (*Salix lasiandra*), and dusky willow (*Salix melanopsis*). A total of 313.1 inches of native trees will require compensation. Equivalent compensation based on the following ratio is required: • one preserved native tree < 6 inches DBH on-site = 1 inch DBH • one D-pot seedling (40 cubic inches or larger) = 1 inch DBH • one 15-gallon tree = 1 inch DBH • one 24-inch box tree = 2 inches DBH • one 36-inch box tree = 3 inches DBH Prior to the approval of Work Authorization Permit for the proposed project, a Replacement Tree Planting Plan shall be prepared by a certified arborist or licensed landscape architect and shall be submitted to the Environmental Coordinator for approval. The Replacement Tree Planting Plan(s) shall include the following minimum elements: 1. Species, size and locations of all replacement plantings and < 6-inch DBH trees to be preserved 2. Method of irrigation 3. If planting in soils with a hardpan/duripan or claypan layer, include the Sacramento County Standard Tree Planting Detail L-1, including the 10-foot-deep boring hole to provide for adequate drainage 4. Planting, irrigation, and maintenance schedules;	

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		5. Identification of the maintenance entity and a written agreement with that entity to provide care and irrigation of the trees for a 3-year establishment period, and to replace any of the replacement trees which do not survive during that period. 6. Designation of 20-foot root zone radius and landscaping to occur within the radius of trees < 6 inches DBH to be preserved on-site. No replacement tree shall be planted within 15 feet of the driplines of existing native trees or landmark size trees that are retained on-site, or within 15 feet of a building foundation or swimming pool excavation. The minimum spacing for replacement native trees shall be 20 feet on-center. Examples of acceptable planting locations are publicly owned lands, common areas, and landscaped frontages (with adequate spacing). Generally unacceptable locations are utility easements (public utility easements [PUE], sewer, storm drains), under overhead utility lines, private yards of single-family lots (including front yards), and roadway medians. Native trees <6 inches DBH to be retained on-site shall have at least a 20-foot radius suitable root zone. The suitable root zone shall not have impermeable surfaces, turf/lawn, dense plantings, soil compaction, drainage conditions that create ponding (in the case of oak trees), utility easements, or other overstory tree(s) within 20 feet of the tree to be preserved. Trees to be retained shall be determined to be healthy and structurally sound for future growth, by an International Society of Arboriculture Certified Arborist subject to Environmental Coordinator approval. If tree replacement plantings are demonstrated to the satisfaction of the Environmental Coordinator to be infeasible for any or all trees removed, then compensation shall be through payment into the County	

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		Tree Preservation Fund. Payment shall be made at a rate of $325.00 per DBH inch removed but not otherwise compensated, or at the prevailing rate at the time payment into the fund is made. **New Mitigation Measure BR-4.2: Proposed Project Tree Canopy Protection and/or Compensation Mitigation Measure** Removal of nonnative tree canopy shall be mitigated by creation of new tree canopy equivalent to the acreage of nonnative tree canopy removed. New tree canopy acreage shall be calculated using the Sacramento County Department of Transportation 15-year shade cover values for tree species. Preference is given to on-site mitigation, but if this is infeasible, then funding shall be contributed to the Sacramento Tree Foundation's Greenprint program in an amount proportional to the tree canopy lost (as determined by the 15-year shade cover calculations for the tree species to be planted through the funding, with the cost to be determined by the Sacramento Tree Foundation).	
Impact BR-5: Conflict with any Local Policies or Ordinances Protecting Biological Resources	PS	**Implement Adopted 2016 Final EIR Mitigation Measure BR-1.7 and New Mitigation Measures 1.13 through 1.17 (listed under Impact BR-1); New Mitigation Measure BR-3.2 (listed under Impact BR-3); and New Mitigation Measures BR-4.1 and BR-4.2 (listed under Impact BR-4).**	LTS
Impact BR-6: Have a Substantial Adverse Effect on the Movement of Any Native Resident of Migratory Fish or Wildlife Species or with Established Native Resident or Migratory Wildlife Corridors, or Impede the Use of Native Wildlife Nursery Sites	PS	**Implement New Mitigation Measures BR-1.13 and BR-1.17 (listed under Impact BR-1).**	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
Impact BR-7: Conflict with the South Sacramento Habitat Conservation Plan	PS	**Implement New Mitigation Measure BR-1.13 (listed under Impact BR-1).**	LTS
CULTURAL RESOURCES			
Impact CR-1: Cause a Substantial Adverse Change in the Significance of a Built-Environment Historical Resource	LTS	No mitigation is required.	LTS
Impact CR-2: Cause a Substantial Adverse Change to an Archaeological Resource	PS	**Revised 2016 Final EIR Mitigation Measure CR-2: Cultural Resources Unanticipated Discoveries** If subsurface deposits believed to be cultural, paleontological or human in origin are discovered during construction, then all work must halt within a 100-foot radius of the discovery. A qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and history archaeology, shall be retained at the Applicant's expense to evaluate the significance of the find. If it is determined due to the types of deposits discovered that a Native America monitor is required, the Guidelines for Monitors/Consultants of Native American Cultural, Religious, and Burial Sites as established by the Native American Heritage Commission shall be followed, and the monitor shall be retained at the Applicant's expense. Work cannot continue within the 100-foot radius of the discovery site until the archaeologist conducts sufficient research and data collection to make a determination that the resource is either 1) not cultural in origin; or 2) not potentially eligible for listing on the National Register of Historic Places of California Register of Historical Resources. If a potentially eligible resource is encountered, then the archaeologist and project proponent shall coordinate with Planning and Environmental Review and arrange for either 1) total avoidance of the resource, if possible; or 2)	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		test excavations or total data recovery as mitigation. The determination shall be formally documented in writing and submitted to Planning and Environmental Review as verification that the provisions of CEQA for managing unanticipated discoveries have been met. In addition, pursuant to Section 5097.98 of the State Public Resources Code and Section 7050.5 of the State Health and Safety Code, in the event of the discovery of human remains during any project-related ground-disturbing activity, all work shall cease within 100 feet of the discovery and the County Coroner shall be immediately notified. If the remains are determined to be Native American by the County Coroner, the NAHC shall be contacted to determine the Most Likely Descendant (MLD). The remains shall be treated with appropriate dignity pursuant to the procedures for the treatment of Native American human remains are contained in California Health and Safety Code Section 7050.5 and Section 7052 and California Public Resources Code Section 5097.98 and CEQA Guidelines Section 15064.5(e).	
Impact CR-3: Disturb Human Remains	PS	**Implement Revised 2016 Final EIR Mitigation Measures CR-2**	LTS
ENERGY			
Impact EN-1: Result in Wasteful, Inefficient, or Unnecessary Consumption of Energy	LTS	No mitigation is required.	LTS
Impact EN-2: Conflict With or Obstruct a State or Local Plan for Renewable Energy or Energy Efficiency	LTS	No mitigation is required.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
GEOLOGY, SOILS, AND MINERAL RESOURCES			
Impact GS-1: Exacerbate Unstable Soil Conditions	PS	**Revised 2016 Final EIR Mitigation Measure GS-1: Reclamation Slopes and Berms Mitigation Measure** A. Reclamation slopes shall be constructed at 2H:1V or flatter. B. To reduce potential for seepage along pipe penetrations (if present), concrete cut-off collars at pipe penetrations through the embankment shall be constructed to the satisfaction of the County of Sacramento Department of Water Resources. Reinforced concrete cut-off collars shall completely encircle the pipe and be sized so that they are 12 to 18 inches larger than the normal outside diameter of the pipe. Thickness shall be at least six inches. Water-tight filler shall be used between collars and pipes. C. At the beginning of each year (in the month of January) a written report identifying the slopes built adjacent to Elder Creek and Preserve during the previous calendar year and the methodology employed shall be submitted to the Department of Community Development, Aggregate Resources Manager for review. The report shall indicate whether such slopes were constructed in a manner consistent with the Geocon Seepage and Stability Evaluation. The report shall also include a performance evaluation of all slopes built adjacent to Elder Creek and Preserve to date and appropriate measures to corrected any deficiencies, if necessary. This report shall be prepared by a registered and licensed civil engineer in good standing. D. Before final reclamation signoff; a statement prepared by a registered and licensed civil engineer in good standing that documents that the slopes are in good repair, stable and safe shall be presented to the Department of Community Development, Aggregate Resources Manager for review.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
Impact GS-2: Result in Substantial Soil Erosion	LTS	No mitigation is required.	LTS
Impact GS-3: Potential Destruction of Buried Paleontological Resources	PS	**Implement Revised 2016 Final EIR Mitigation Measure CR-2 (listed under Impact CR-2 in Cultural Resources)**	LTS
Impact GS-4: Obstruction of Access to Mineral Resources	LTS	No mitigation is required.	LTS
GREENHOUSE GAS EMISSIONS			
Impact GG-1: Generate GHG Emissions, Either Directly Or Indirectly, That May Have A Significant Impact On The Environment	LTS	No mitigation is required.	LTS
Impact GG-2: Conflict with Any Applicable Plan, Policy, or Regulation of an Agency for the Purpose of Reducing the Emissions of GHG	LTS	No mitigation is required.	LTS
HAZARDS AND HAZARDOUS MATERIALS			
Impact HAZ-1: Accidental Release Due to Transport, Use, or Disposal of Hazardous Materials	PS	**Adopted 2016 Final EIR Mitigation Measure HM-1: Transport, Use, or Disposal of Hazardous Materials** A. Non-functional equipment, scrap metal, construction debris, used batteries and tires, and similar objects shall be removed from the site on a regular basis and disposed of at appropriately licensed facilities. B. Spare equipment such as heavy equipment parts, conveyor belts, tires and other replacement or extra equipment pieces, shall be stored indoors or on impermeable surfaces that do not drain off-site whenever possible to avoid surface water contamination. Spare parts containing petroleum products (i.e., lubricants, hydraulic oil, etc.) shall be stored using Best Management Practices (BMP's) to prevent contamination of soil or storm water runoff.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		C. All delivery, maintenance, and repair trucks containing petroleum products or other hazardous materials shall comply with the State of California, Department of Transportation's regulations for transport of hazardous materials. All trucks carrying petroleum products shall be equipped with quick connect couplings and automatic shut-off valves to prevent spills, and shall carry appropriate absorbent materials to contain and recover spillage.	
Impact HAZ-2: Expose People or Structures to Wildland Fires	LTS	No mitigation is required.	LTS
HYDROLOGY, DRAINAGE, AND WATER QUALITY			
Impact HYD-1: Violate Water Quality Standards	LTS	No mitigation is required.	LTS
Impact HYD-2: Substantially Decrease Groundwater Supplies or Interfere Substantially With Groundwater Recharge	LTS	No mitigation is required.	LTS
Impact HYD-3: Substantially Alter the Existing Drainage Pattern of the Plan Area Such That Substantial Erosion, Flooding, or Polluted Runoff Could Occur	LTS	No mitigation is required.	LTS
Impact HYD-4: Risk Release of Pollutants Due to Inundation in Flood Hazard Zones	LTS	No mitigation is required.	LTS
Impact HYD-5: Conflict With a Water Quality Control Plan or Sustainable Groundwater Management Plan	LTS	No mitigation is required.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
NOISE			
Impact NO-1: Expose New or Existing Sensitive Receptors to New Non-Transportation Noise Sources	PS	**New Mitigation Measure NO-2: Surface Mining-Related Noise Reduction Measures** To minimize noise levels during surface mining-related activities, the project applicant shall comply with the following measure: Surface mining activities occurring within 500 feet of any existing residence (R1, R3 & R4) shall be shielded by temporary noise barriers, such as earthen berms, constructed to a height of at least 8 feet, along the mining footprint boundary at the locations indicated in Figure 15-2 of this SEIR. In accordance with the requirements of County Code 4.8.14.A.5 (Noise Barriers), the temporary noise barriers shall be constructed to a minimum height (at least 8 feet) such that the line-of-sight between operating mobile mining equipment and nearby residences (R1, R3, and R4) is fully blocked. The temporary noise barriers shall be constructed prior to commencement of surface mining activities within at least 500 feet from existing residences and may be removed once surface mining activities have recessed deep enough in the mining pit, such that the excavation equipment is completely shielded from view of these residences. The temporary noise barriers would be adequate at reducing noise levels generated by the proposed project in these areas to less than 5 dBA over baseline ambient conditions.	LTS
Impact NO-2: Generate Substantial Long-Term Mining-Related Vibration	LTS	No mitigation is required.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
PUBLIC SERVICES			
Impact PS-1: Result in Substantial Adverse Physical Impacts Associated With the Provision of Parks and Recreation Services or Substantial Physical Deterioration of an Existing Facility	LTS	No mitigation is required.	LTS
TRANSPORTATION			
Impact TR-1: Adversely Affect an Existing Bicycle and Pedestrian Facility, Interfere With the Implementation of a Planned Bikeway, or Result in Unsafe Conditions for Bicyclists or Pedestrians	LTS	No mitigation is required.	LTS
Impact TR-2: Adversely Affect Public Transit Operations or Fail to Provide Access to Transit	LTS	No mitigation is required.	LTS
Impact TR-3: Conflict with a Program, Plan, Ordinance, or Policy Addressing Roadway Facilities	LTS	No mitigation is required.	LTS
Impact TR-4: Generate VMT That Exceeds County Standards	LTS	No mitigation is required.	LTS
Impact TR-5: Substantially Increase Hazards Due to a Geometric Design Feature or Incompatible Uses	LTS	No mitigation is required.	LTS
Impact TR-6: Result in Inadequate Emergency Access	LTS	No mitigation is required.	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
TRIBAL CULTURAL RESOURCES			
Impact TCR-1: Cause a Change in Significance of a Tribal Cultural Resource	PS	**Implement New Mitigation Measure TCR-1 and Revised 2016 Final EIR Mitigation Measure CR-2 (listed under Impact CR-2 in Cultural Resources)** **New Mitigation Measure TCR-1: Inadvertent/Unanticipated Tribal Cultural Resources Discoveries** If any suspected tribal cultural resources are discovered during ground-disturbing surface mining activities, all work shall cease within 100 feet of the find, or an agreed upon distance based on the nature of the find. The NAHC shall be immediately notified to determine if the find is a tribal cultural resource and they will designate a Most Likely Descendant (MLD) (PRC Section 21074). The MLD will make recommendations for further evaluation and treatment, as necessary. Preservation in place is the preferred option for mitigation of tribal cultural resources, and every effort shall be made to preserve the resources in place, including through project redesign, if feasible. When avoidance is infeasible, culturally appropriate treatments may include, but are not limited to, processing materials for reburial, minimizing handling of cultural objects, leaving objects in place within the landscape, or returning objects to a location within the candidate rezone site where they will not be subject to future impacts. Permanent curation of tribal cultural resources shall not take place unless approved in writing by the California Native American tribe that is traditionally and culturally affiliated with the candidate rezone site. The project proponent shall implement any measures deemed by the County to be necessary and feasible to preserve in place, avoid, or minimize impacts to the resource, including, but not limited to, facilitating the	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
		appropriate tribal treatment of the find, as necessary. Treatment that preserves or restores the cultural character and integrity of a tribal cultural resource may include tribal monitoring, culturally appropriate recovery of cultural objects, and reburial of cultural objects or cultural soil. Work at the discovery location shall not resume until all necessary investigation and evaluation of the discovery have been satisfied.	
CUMULATIVE			
Aesthetics	S	**Implement Revised 2016 Final EIR Mitigation Measure AE-1 and AE-3**	SU
Agricultural Resources	S	**Implement Revised 2016 Final EIR Mitigation Measure AG-1**	SU
Air Quality	S	**Implement Revised 2016 Final EIR Mitigation Measure AQ-1.2**	SU
Airport Compatibility	LTS	No mitigation is required.	LTS
Biological Resources	PS	**Implement Adopted 2016 Final EIR Mitigation Measure BR-1.7 and New Mitigation Measures BR-1.13, BR-1.14, BR-1.15, BR-1.16, BR-1.17, BR-3.2, BR-4.1, and BR-4.2**.	LTS
Cultural Resources	PS	**Implement Revised 2016 Final EIR Mitigation Measure CR-2.**	LTS
Energy	LTS	No mitigation is required.	LTS
Geology, Soils, and Mineral Resources	PS	**Implement Revised 2016 Final EIR Mitigation Measures GS-1 and CR-2**	LTS
Greenhouse Gas Emissions	LTS	No mitigation is required.	LTS
Hazards and Hazardous Materials	PS	**Implement Adopted 2016 Final EIR Mitigation Measure HM-1.**	LTS

Impacts	Level of Significance before Mitigation [1]	Mitigation Measure	Level of Significance after Mitigation
Hydrology, Drainage, and Water Quality	LTS	No mitigation is required.	LTS
Noise	PS	**Implement New Mitigation Measure NO-2.**	LTS
Public Services	LTS	No mitigation is required.	LTS
Transportation	LTS	No mitigation is required.	LTS
Tribal Cultural Resources	PS	**Implement New Mitigation Measure TCR-1 and Revised 2016 Final EIR Mitigation Measure CR-2.**	LTS

Notes: PS = Potentially Significant S = Significant SU = Significant and Unavoidable LTS = Less Than Significant

1 INTRODUCTION

This Supplemental Environmental Impact Report (SEIR) to the Aspen VIII & IX Mining Use Permit Project Final EIR (State Clearinghouse No. 2015022062) has been prepared pursuant to the California Environmental Quality Act (CEQA) of 1970 (as amended) by the County of Sacramento (County) to disclose the potential environmental consequences of implementing the proposed Teichert Aspen VIII & IX Mining Use Permit Amendment Project (PLNP2014-00201), here referred to as the "proposed project." This SEIR has been prepared in conformance with CEQA (Public Resources Code [PRC] section 21000, et seq.) and the CEQA Guidelines (California Code of Regulations (CCR), Title 14, Chapter 3, section 15000, et seq.) to disclose the environmental impacts associated with the proposed project.

SUMMARY OF APPROVED PROJECT AND FINAL EIR

APPROVED PROJECT BACKGROUND

The Aspen VIII & IX Mining Use Permit Project (approved project) (PLNP2014-00201) and the Final Environmental Impact Report (2016 Final EIR) (State Clearinghouse No. 2015022062) was approved and certified by the Sacramento County Board of Supervisors in 2016.

The approved project site consisted of the Aspen VIII and IX mining areas located within the Vineyard community of unincorporated Sacramento County, east of the City of Sacramento limits, south of Jackson Road, and approximately one-half mile east of Bradshaw Road. The approved project site encompassed 683 acres, of which approximately 353 acres was proposed to be excavated for aggregate materials (sand and gravel) across two mining areas, the Aspen VIII and Aspen IX mining areas. The Aspen VIII mining area is approximately 255 acres and the Aspen IX mining area is approximately 98 acres.

The approved project was entitled through the Aspen VIII and IX Mining Use Permit, Community Plan Amendment and Rezone, Reclamation Plan, and Development Agreement. Under the approved entitlements, surface mining operations were approved on approximately 353 acres of the 683-acre project site for 15 years, with surface mining to be completed by December 31, 2031, and final reclamation to be completed in 2 years by December 31, 2033. In accordance with the Reclamation Plan, the approved project site is to be reclaimed to open space grassland.

The approved project also included the rezoning of 682 acres from agricultural uses to Surface Mining Combining Zone (SM); use of an electric conveyor belt system to transport mined aggregate materials from the approved project site to the existing Perkins Plant; an extension of Knox/Vineyard Road that runs north and south through the Aspen IX mining area; installation of a box culvert under Elder Creek Road; and landscaping along Elder Creek Road. The approved project also included the

installation of native landscaping and berms along various boundaries of the approved project site to act as visual screening as well as to attenuate noise levels associated with surface mining operations.

Findings of the 2016 Final EIR

The 2016 Final EIR evaluated the approval and implementation of the Aspen VIII & IX Mining Use Permit, Community Plan Amendment and Rezone, Reclamation Plan, and Development Agreement to permit the approved project. The 2016 Final EIR determined that implementation of the approved project would result in the following impacts:

Less Than Significant

- land use/population and housing,
- airport compatibility, and
- greenhouse gas emissions.

Less Than Significant with Mitigation Incorporated

- agricultural resources,
- public services,
- transportation,
- noise,
- hydrology and water quality,
- geology and soils,
- biological resources,
- cultural resources, and
- hazardous materials.

Significant and Unavoidable

- aesthetics, and
- air quality.

At the time of adoption of the approved project, the County also adopted the approved project's mitigation monitoring and reporting program (MMRP) as well as CEQA Findings of Fact and a Statement of Overriding Considerations. The approved project was also required to implement various conditions of approval as part of project adoption.

PURPOSE AND USE OF THIS SEIR

This SEIR evaluates the potential environmental impacts associated with implementation of the proposed project. This SEIR has been prepared under the direction of the County in accordance with the requirements of the CEQA (PRC Section 21000 et seq.) and the State CEQA Guidelines (CCR Title 14. Natural Resources Division 6 Section 15000 et seq.). The intent of this SEIR is to provide objective information to allow the Sacramento County Board of Supervisors to make an informed decision when considering whether to approve or deny the project. The SEIR does not comment on the merits of the project and does not make a recommendation for or against its approval.

CEQA requires that, before a decision can be made to approve a project that would pose potential adverse physical effects, an EIR must be prepared that fully describes the environmental effects of the project. The SEIR is a public information document that identifies and evaluates potential environmental impacts of a proposed project, recommends mitigation measures to lessen or eliminate significant adverse impacts, and examines feasible alternatives to the project. The information contained in the SEIR must be reviewed and considered by the County and by any responsible agencies (as defined in CEQA) prior to a decision to approve, disapprove, or modify the proposed project.

Pursuant to Section 15162 of the CEQA Guidelines, a Subsequent or Supplement EIR is required if the County, as the CEQA Lead Agency, determines on the basis of substantial evidence in light of the whole record that there have been substantial changes to the project and/or the circumstances under which the project is undertaken, or substantial new information has arisen, and that one or more of the foregoing will result in new or substantially more severe impacts and that thus necessitate major revisions to the prior EIR and/or new mitigation measures or alternatives are now applicable.

CEQA Guidelines Section 15382 defines a significant effect on the environment as “a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project…” Therefore, in identifying the significant impacts of the proposed project, this SEIR describes the potential for the proposed project to result in substantial physical effects either onsite or with the vicinity of the project site and identifies mitigation measures that would avoid, reduce, or otherwise alleviate those effects, if necessary.

The County has determined, pursuant to CEQA, that the proposed project will require the preparation of a Supplemental EIR to the 2016 Final EIR. An SEIR is warranted because the proposed project involves expansion of the surface mining operations and reclamation activities evaluated within the 2016 Final EIR and there is reasonable potential that the expansion may result in new or substantially more severe significant environmental effects than those identified in the certified 2016 Final EIR.

Environmental Review and Scoping Process

Notice of Preparation

On August 26, 2024, the County released the Notice of Preparation (NOP) to governmental agencies and organizations and persons interested in the proposed project. The NOP public review and comment period lasted from August 26, 2024 through September 25, 2024. The County sent the NOP to agencies with statutory responsibilities in connection with the proposed project with the request for those agencies to provide input on the scope and content of the environmental information that should be addressed in the SEIR. A scoping meeting was held on September 17, 2024 to solicit comments and suggestions concerning the analysis in the SEIR. Four comment letters were received during the public review period of the NOP and no comments were provided during the scoping meeting.

The NOP and copies of the comments received in response to the NOP are provided in Appendix A.

Baseline Conditions for this SEIR

In accordance with Section 15125 of the CEQA Guidelines, an EIR must include a description of the physical environmental conditions in the vicinity of the project, which will normally constitute the baseline physical conditions by which a lead agency determines whether an impact is significant. Generally, the lead agency should describe physical environmental conditions as they exist at the time the NOP is published, or if no NOP is published, at the time environmental analysis is commenced, from both a local and regional perspective. Where existing conditions change or fluctuate over time, and where necessary to provide the most accurate picture practically possible of the project's impacts, a lead agency may define existing conditions by referencing historic conditions, or conditions expected when the project becomes operational, or both, that are supported with substantial evidence.

For the purposes of this SEIR, the baseline conditions for analysis of environmental impacts associated with the proposed project consists of the environmental conditions at the time the NOP for the proposed project was circulated (i.e., August-September 2024). At the time of public distribution of the NOP, the approved project was operating at the approved project site, which is adjacent to the project site, and therefore, is included within the baseline conditions of the analysis within this SEIR.

However, it should be noted that at the time the NOP for the proposed project was circulated for public review, the West Jackson Highway Master Plan (WJHMP), which includes the project site within its plan area, had not been adopted by the Sacramento County Board of Supervisors. For this reason, the WJHMP is not included within the baseline conditions within this SEIR but is evaluated as a cumulative project within Chapter 19, "Summary Of Impacts And Other CEQA Considerations." The WJHMP was adopted by the Sacramento County Board of Supervisors on June 11, 2025.

Scope of This SEIR

Pursuant to CEQA and the State CEQA Guidelines, a lead agency shall focus an EIR's discussion on significant environmental effects and may limit discussion on other effects to brief explanations about why they are not significant (PRC Section 21002.1; State CEQA Guidelines Section 15128). Potentially significant impacts were identified based on review of the 2016 Final EIR, comments received during the public review period for the NOP and scoping meeting (Appendix A), and additional research and analysis of the relevant project data during preparation of this SEIR.

The significance criteria for impacts are based on the environmental checklist in Appendix G to the 2025 State CEQA Guidelines, which have been updated since the certification of the 2016 Final EIR. The environmental analysis conducted in this SEIR will apply the Appendix G significance criteria, based on County discretion, to determine whether the potential impacts of the proposed project, relative to existing conditions, are within the range of effects that were previously evaluated in the 2016 Final EIR.

The County has determined that the proposed project has the potential to result in significant environmental impacts on the following resources, which are addressed in detail in this SEIR:

- aesthetics;
- agricultural resources;
- air quality;
- airport compatibility;
- biological resources;
- cultural resources;
- energy;
- geology, soils, and mineral resources;
- greenhouse gas emissions;
- hazards and hazardous materials;
- hydrology, drainage, and water quality;
- noise;
- public services;
- transportation; and
- tribal cultural resources.

Impacts related to land use/population and housing and utilities and service systems, which was previously evaluated within the public services section of the 2016 Final EIR, have been omitted from detailed evaluation in this SEIR, as discussed below.

Impacts related to land use/population and housing have been omitted from detailed evaluation in this SEIR because the Aspen VIII and IX Expansion Areas are already designated Surface Mining Combining Zone (SM), meaning the County's Board of Supervisors previously determined that surface mining of these parcels is consistent with the County General Plan and the Zoning Code. Furthermore, the proposed project is not a land development project nor does it include a residential component and as such would not impact population and housing. The proposed project would not induce growth as it would utilize existing employees as part of continued surface mining operations on the site and would thus not increase population or employment. Therefore, this issue was scoped out from further review in this SEIR.

In addition, impacts related to utilities and service systems have been omitted from detailed evaluation within the public services chapter of this SEIR because the proposed project would not include the construction or expansion of utility infrastructure nor increase demand on public utilities or service systems, compared with the approved project. The Amended Mining Use Permit and Reclamation Plan would not require additional employees beyond the current nine full-time employees who are onsite at any given time under the approved project. The proposed project would not require the relocation or construction of new or expanded utility infrastructure, including water supply, wastewater treatment, stormwater drainage, electrical power, natural gas, or telecommunications facilities. Similar to the approved project, the proposed project would continue to use the existing conveyor belt system, office/employee trailers, and security trailers, which would continue to be served by the existing electrical power infrastructure at the site, as well as existing temporary mobile restroom facilities (i.e., "port-o-potties"). Several onsite wells provide adequate water supply to the project site to meet its limited water needs for dust suppression, and the proposed project would not result in increased demands for water supply, compared to the approved project. Furthermore, the proposed project would not require wastewater treatment or disposal and would not generate additional solid waste, compared to the approved project. Therefore, the proposed project would not increase demand on utilities and service systems compared to existing conditions under the approved project. Therefore, this issue was scoped out from further review in this SEIR.

This SEIR also addresses other CEQA-mandated issues (e.g., cumulative impacts, growth-inducing impacts, significant unavoidable impacts, alternatives).

Draft SEIR

This SEIR is being circulated for public review and comment for a period of 45 days. During this period, comments from agencies, as well as organizations and the general public, on environmental issues may be submitted to the County.

During the public review period, this SEIR is available for review between 8:30 a.m. and 4:30 p.m. Monday through Friday at the County Planning and Environmental Review Division located at:

827 7th Street, Room 225
Sacramento, CA 95814

This SEIR is also available online at:

https://planningdocuments.saccounty.gov/ViewProjectDetails.aspx?ControlNum=PLNP2024-00068

All agencies, organizations, and interested parties have the opportunity to comment on this SEIR during the public review period.

Written comments on this SEIR should be addressed to:

Kurtis Steinert, Associate Planner
Sacramento County
Department of Community Development
Planning and Environmental Review Division
827 7th Street, Room 225
Sacramento, CA 95814

Written comments may also be submitted to CEQA@saccounty.gov.

Final SEIR

Following the close of the public comment period, the County will prepare a Final SEIR, which will include written responses to comments on this SEIR and will identify any changes to the SEIR that may be required to address comments or new information, if applicable. The responses and any other revisions to this SEIR initiated by County staff will be prepared as a Final SEIR document. This SEIR and its appendices, together with the Final SEIR will constitute the complete SEIR for the proposed project.

Once the Final SEIR is completed, the Board of Supervisors must certify the SEIR and adopt Findings of Fact before it can approve the project. If the SEIR concludes that the project would result in any significant and unavoidable impacts, then the Board of Supervisors must also adopt a Statement of Overriding Considerations.

Mitigation Monitoring and Reporting Plan

Throughout this Draft SEIR, mitigation measures are clearly identified, where applicable, and presented in language that will facilitate establishment of an MMRP. If mitigation measures from the 2016 Final EIR are applicable to the proposed project, those measures will be incorporated into the analysis for the project consistent with the existing MMRP. However, if new impacts or more severe impacts are identified that require new or amended mitigation measures, those will be clearly identified within this

Draft SEIR. As required under CEQA, a MMRP specific to the proposed project will be prepared and presented to the County Board of Supervisors at the time of certification of the Final SEIR for the proposed project and will identify the specific timing and roles and responsibilities for implementation of adopted mitigation measures.

INTENDED USES OF THIS SEIR

The Sacramento County Planning Commission and Board of Supervisors will use the information contained in this SEIR to evaluate the project and render a decision to approve or deny the requested entitlements (as described further in Chapter 2, “Project Description”).

The following responsible agencies may also use this SEIR for planning or permitting purposes:

- California Department of Conservation, Division of Mine Reclamation,
- California Department of Fish and Wildlife,
- Central Valley Regional Water Quality Control Board,
- Sacramento Metropolitan Air Quality Management District, and
- Sacramento Municipal Utility District.

2 PROJECT DESCRIPTION

Teichert Materials (Teichert), as the project applicant, is requesting to expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project [PLNP2014-00201]) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas (approved project site), within the Vineyard community and West Jackson Highway Master Plan (WJHMP) area of unincorporated Sacramento County (proposed project). To implement the proposed project, the project applicant is proposing to amend the existing Mining Use Permit, Reclamation Plan, and Development Agreement for approved project, which currently permits surface mining and reclamation activities on approximately 353 acres of the 683-acre approved project site over 15 years, with surface mining to be completed by December 31, 2031, and final reclamation to be completed in 2 years by December 31, 2033. The proposed project would also extend and continue to use the existing electric conveyor belt system to transport mined aggregate material to the existing offsite Perkins Plant.

In accordance with Section 15124 of the CEQA Guidelines, a project description must contain: (a) the precise location and boundaries of the project area, shown on a detailed map, along with a regional map of the project's location; (b) a statement of the objectives sought by the proposed project, which should include the underlying purpose of the project; (c) a general description of the project's technical, economic, and environmental characteristics; and, (d) a statement briefly describing the intended uses of the environmental impact report (EIR). A project description need not be exhaustive but should supply the information necessary for the evaluation and review of the project's significant effects on the environment. A detailed description of each of these components is provided within this chapter below.

Sacramento County (County) is the Lead Agency for the purpose of this Supplemental EIR (SEIR) and Teichert is the project applicant.

APPROVED PROJECT AND 2016 FINAL EIR BACKGROUND

The Aspen VIII & IX Mining Use Permit Project (approved project) (PLNP2014-00201) and the Final Environmental Impact Report (2016 Final EIR) (State Clearinghouse No. 2015022062) was approved and certified by the Sacramento County Board of Supervisors in 2016.

The approved project site consisted of the Aspen VIII and IX mining areas located within the Vineyard community of unincorporated Sacramento County, east of the City of Sacramento limits, south of Jackson Road, and approximately one-half mile east of Bradshaw Road. The approved project site encompassed 683 acres across two mining areas, Aspen VIII and Aspen IX (refer to Figure 2-4). The Aspen VIII mining area is approximately 255 acres and the Aspen IX mining area is approximately 98 acres.

The approved project was entitled through the Aspen VIII and IX Mining Use Permit, Community Plan Amendment and Rezone, Reclamation Plan, and Development

Agreement. Under the approved entitlements, surface mining operations were approved on approximately 353 acres of the 683-acre project site for 15 years, with surface mining to be completed by December 31, 2031, and final reclamation to be completed in 2 years by December 31, 2033. In accordance with the Reclamation Plan, the approved project site is to be reclaimed to open space grassland with established slope standards. The Reclamation Plan also included various rights-of-way for future uses, including the extension of Knox/Vineyard Road in Aspen IX and for a future multi-use trail within the Aspen IX mining area that runs along Elder Creek.

The approved project also included the rezoning of 682 acres from agricultural uses to Surface Mining Combining Zone (SM); use of an electric conveyor belt system to transport mined aggregate materials from the approved project site to the offsite Perkins Plant; an extension of Knox/Vineyard Road that runs north and south through the Aspen IX mining area; installation of a box culvert under Elder Creek Road; and landscaping along Elder Creek Road.

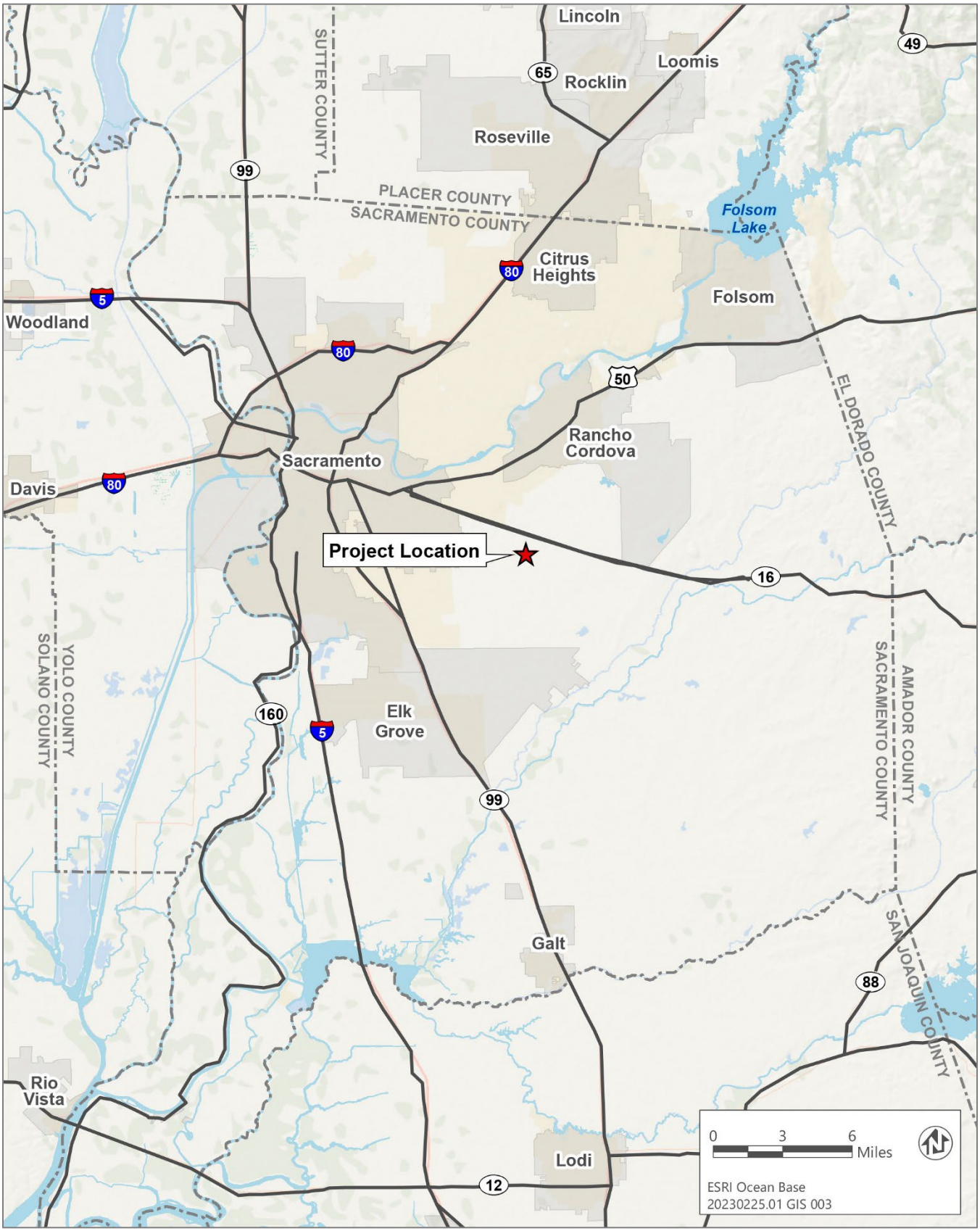
As mitigation for aesthetic and noise impacts, the approved project included the installation of native landscaping and berms along various boundaries of the approved project site to act as visual screening as well as to attenuate noise levels associated with surface mining operations (Adopted 2016 Final EIR Mitigation Measures AE-1 and NO-1). To mitigate for impacts to biological resources (Adopted 2016 Final EIR Mitigation Measure BR-4), the project applicant created the 92-acre Elder Creek Open Space Preserve (Preserve) as a conservation and preservation area that protects the portion of Elder Creek that flows through the Aspen VIII and Aspen IX properties, as well as associated wetland and grassland habitats immediately adjacent to the creek channel. Refer to Chapter 8, “Biological Resources,” of this SEIR for more information on the Preserve. Other mitigation requirements associated with the approved project are discussed within their respective chapters of this SEIR.

The 2016 Final EIR evaluated the approval and implementation of the Aspen VIII & IX Mining Use Permit, Community Plan Amendment and Rezone, Reclamation Plan, and Development Agreement to permit the approved project. The 2016 Final EIR determined that implementation of the approved project would result in less than significant impacts with mitigation incorporated, with the exception of aesthetics and air quality, which would remain significant and unavoidable even with mitigation. Refer to Chapter 1, “Introduction,” of this SEIR for a detailed description of the findings of the 2016 Final EIR.

Project Location

The project site is located within the Vineyard community and WJHMP area of unincorporated Sacramento County, east of the City of Sacramento limits, south of Jackson Road, and approximately one-half mile east of Bradshaw Road (refer to **Figures 2-1** and **2-2**). The project site is located within an area of the county that currently supports surface mining operations, including the existing Aspen I through IX mining areas and offsite Perkins Plant. The project site is designated as SM meaning the County has previously identified the project site for surface mining operations not only

due to the presence of aggregate resources but also due to the distance from urban and non-industrial uses. By locating surface mining operations near each other and in rural areas, the County has created a natural buffer between surface mining operations and other non-mining uses in the county and surrounding city of Sacramento.



Sources: Data downloaded from the County of Sacramento in 2024; adapted by Ascent in 2024.

Figure 2-1: Regional Location

The proposed project consists of two distinct expansion areas (i.e., Aspen VIII and IX Expansion Areas) that total 245.6 acres of expanded surface mining area (refer to **Figure 2-3**). The Aspen VIII Expansion Area would encompass 63.26 acres located adjacent to the northwest of the existing Aspen VIII mining area and would extend to the boundary of the previously mined Aspen V South site. The Aspen IX Expansion Area would encompass 182.38 acres south of the existing Aspen IX mining area across from Elder Creek and the Preserve and would extend south to the Vineyard Surface Water Treatment Plant and Knox Road. The proposed project would extend and continue to the existing electric conveyor belt system used for the approved project to transport mined aggregate materials offsite.

The project site is located within Township 8 north, Range 6 east, Sections 27, 28, 33, and 34 of the USGS 7.5-minute series Carmichael, California quadrangles. The latitude and longitude are 38º30’39” North and 121º19’03” West. The project site generally covers the following assessor’s parcel numbers (APNs) (refer to **Figure 2-4**):

Aspen VIII: APN’s 063-0180-005, 063-0180-006, 063-0190-014, 063-0190-015, 063-0190-021, 063-0190-028, 063-0190-029, 063-0190-027

Aspen XI South: APN’s 066-0020-006, 066-0050-003, 066-0030-001

- Conveyor Extension South to Aspen IX South: APN 066-0020-006

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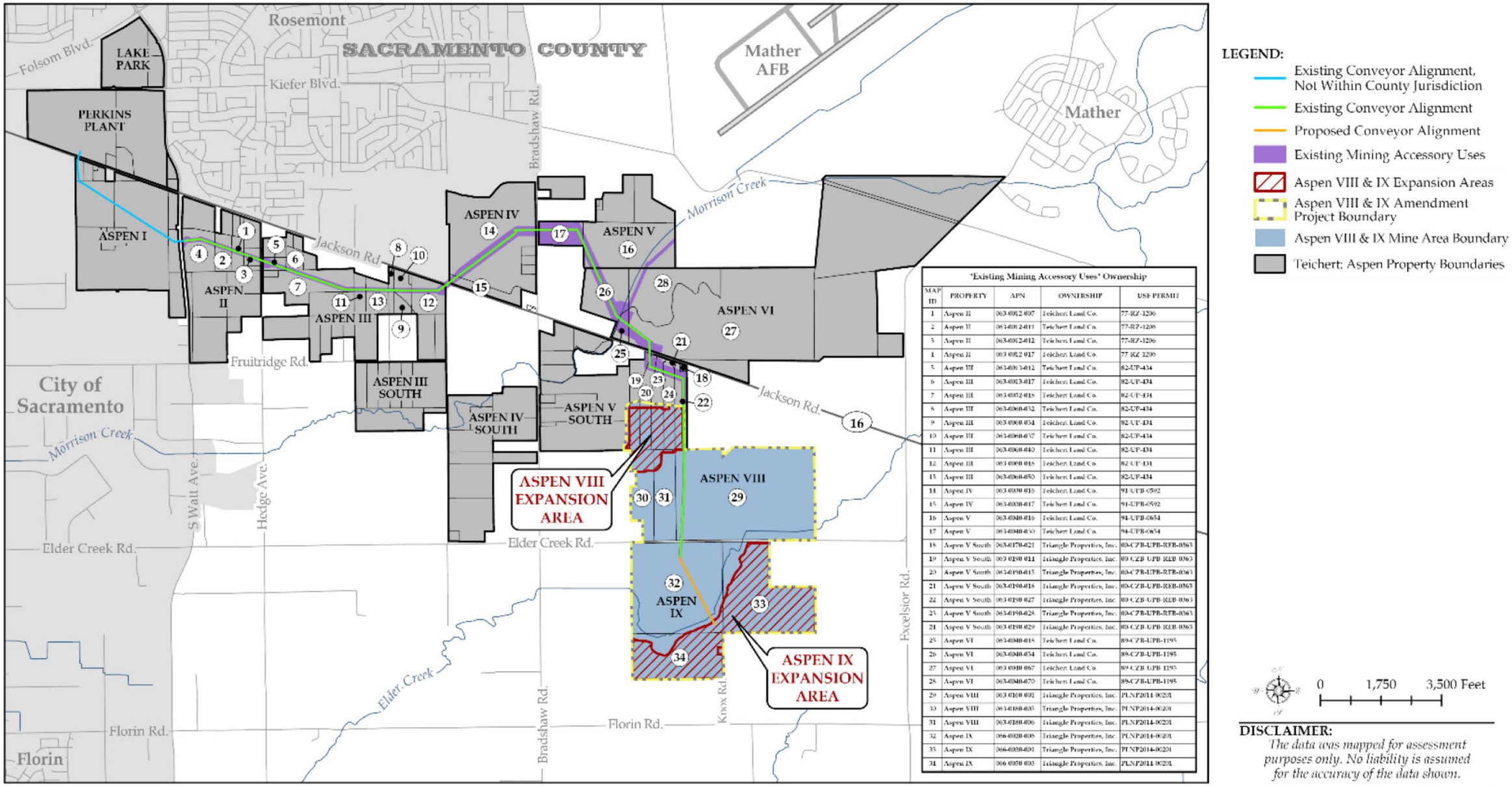
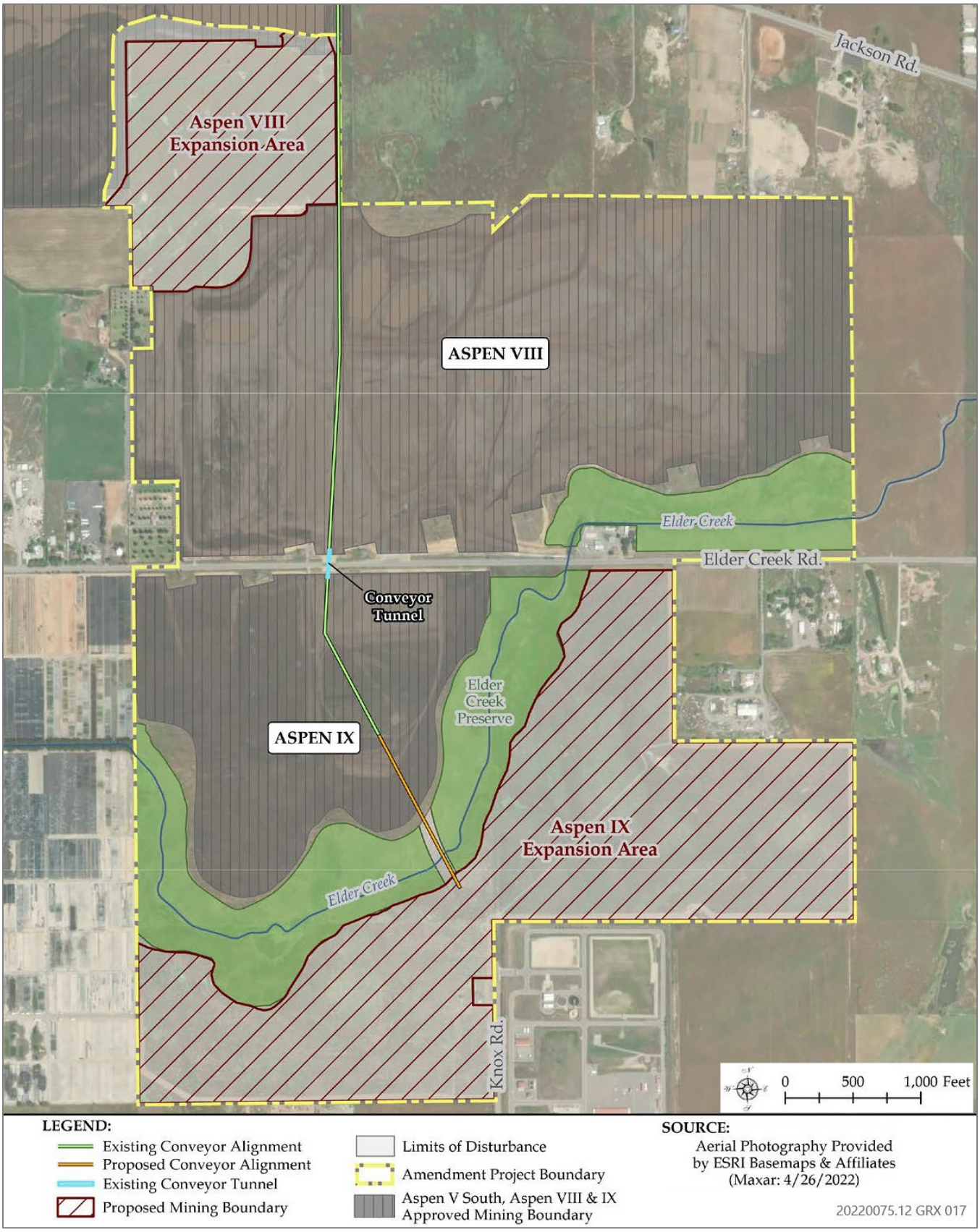


'Existing Mining Accessory Uses' Ownership

MAP ID	PROPERTY	APN	OWNERSHIP	USE PERMIT
1	Aspen II	063-0012-007	Teichert Land Co.	77-RZ-1206
2	Aspen II	063-0012-011	Teichert Land Co.	77-RZ-1206
3	Aspen II	063-0012-012	Teichert Land Co.	77-RZ-1206
4	Aspen II	063-0012-017	Teichert Land Co.	77-RZ-1206
5	Aspen III	063-0013-012	Teichert Land Co.	82-UP-434
6	Aspen III	063-0013-017	Teichert Land Co.	82-UP-434
7	Aspen III	063-0032-018	Teichert Land Co.	82-UP-434
8	Aspen III	063-0060-032	Teichert Land Co.	82-UP-434
9	Aspen III	063-0060-034	Teichert Land Co.	82-UP-434
10	Aspen III	063-0060-037	Teichert Land Co.	82-UP-434
11	Aspen III	063-0060-040	Teichert Land Co.	82-UP-434
12	Aspen III	063-0060-048	Teichert Land Co.	82-UP-434
13	Aspen III	063-0060-050	Teichert Land Co.	82-UP-434
14	Aspen IV	063-0030-010	Teichert Land Co.	91-UPB-0592
15	Aspen IV	063-0030-017	Teichert Land Co.	91-UPB-0592
16	Aspen V	063-0040-010	Teichert Land Co.	94-UPB-0654
17	Aspen V	063-0040-030	Teichert Land Co.	94-UPB-0654
18	Aspen V South	063-0170-021	Triangle Properties, Inc.	03-CZB-UPB-RFB-0363
19	Aspen V South	063-0190-011	Triangle Properties, Inc.	03-CZB-UPB-REB-0363
20	Aspen V South	063-0190-015	Triangle Properties, Inc.	03-CZB-UPB-RFB-0363
21	Aspen V South	063-0190-018	Triangle Properties, Inc.	03-CZB-UPB-REB-0363
22	Aspen V South	063-0190-027	Triangle Properties, Inc.	03-CZB-UPB-REB-0363
23	Aspen V South	063-0190-028	Triangle Properties, Inc.	03-CZB-UPB-RFB-0363
24	Aspen V South	063-0190-029	Triangle Properties, Inc.	03-CZB-UPB-REB-0363
25	Aspen VI	063-0040-018	Teichert Land Co.	89-CZB-UPB-1195
26	Aspen VI	063-0040-034	Teichert Land Co.	89-CZB-UPB-1195
27	Aspen VI	063-0040-067	Teichert Land Co.	89-CZB-UPB-1195
28	Aspen VI	063-0040-070	Teichert Land Co.	89-CZB-UPB-1195
29	Aspen VIII	063-0180-001	Triangle Properties, Inc.	PLNP2014-00201
30	Aspen VIII	063-0180-005	Triangle Properties, Inc.	PLNP2014-00201
31	Aspen VIII	063-0180-006	Triangle Properties, Inc.	PLNP2014-00201
32	Aspen IX	066-0020-008	Triangle Properties, Inc.	PLNP2014-00201
33	Aspen IX	066-0030-001	Triangle Properties, Inc.	PLNP2014-00201
34	Aspen IX	066-0050-003	Triangle Properties, Inc.	PLNP2014-00201

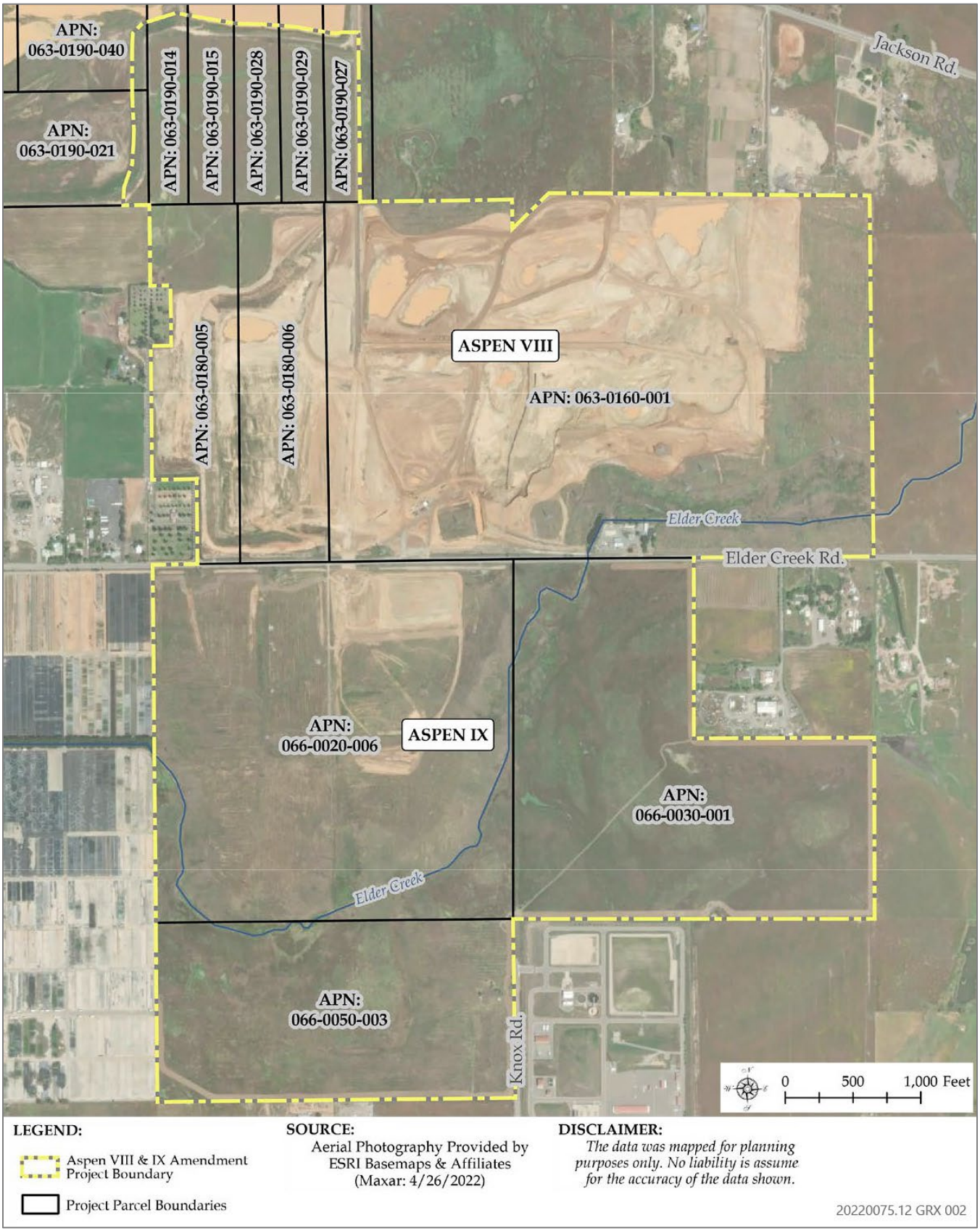
Sources: Teichert 2024b; adapted by Ascent in 2024.

Figure 2-2: Proposed Project Location



Sources: Teichert 2024b; adapted by Ascent in 2024.

Figure 2-3: Project Site



Sources: Teichert 2024a; adapted by Ascent in 2024.

Figure 2-4: Approved Project Site

ENVIRONMENTAL SETTING

EXISTING SETTING

While historically the project site was used as rangeland for livestock, it is currently undeveloped, grassland areas that do not support agricultural uses. The topography of the project site generally slopes gently downward from east to west. Five existing groundwater wells are located within the project site.

Existing onsite habitat primarily includes annual grasslands with other habitats including vernal pools, open water, riverine habitat associated with Elder Creek, and disturbed areas, such as mine roadways and accessory uses. Approximately 16 acres of vernal pool habitat, including riverine habitat, and Waters of the US, have been identified within the project site.

Surrounding land uses include the field office of Triangle Properties, Inc. (the Preserve manager and subsidiary of Teichert), as well as open space annual grasslands and grazing, rural residential homes, Bellevue and Arlington Cemeteries (a.k.a. Quiet Haven Memorial Park), a nursery facility (Everde Growers), and a wastewater treatment facility (Vineyard Surface Water Treatment Plant). Knox Road currently abuts and dead ends into the Aspen IX Expansion Area.

GEOLOGIC SETTING

The project site contains six soil types, which include Hedge loam, 0 to 2 percent slopes; Kimball silt loam, 0 to 2 percent slopes; Kimball silt loam, 2 to 8 percent slopes; Red Bluff loam, 0 to 2 percent slopes; Red Bluff-Xerarents complex, 0 to 2 percent slopes; and San Joaquin silt loam, leveled, 0 to 1 percent slopes (**Figure 2-5**). Approximately 4 to 20 feet of overburden overlies the aggregate deposit, which itself varies in thickness from 15 to 35 feet.

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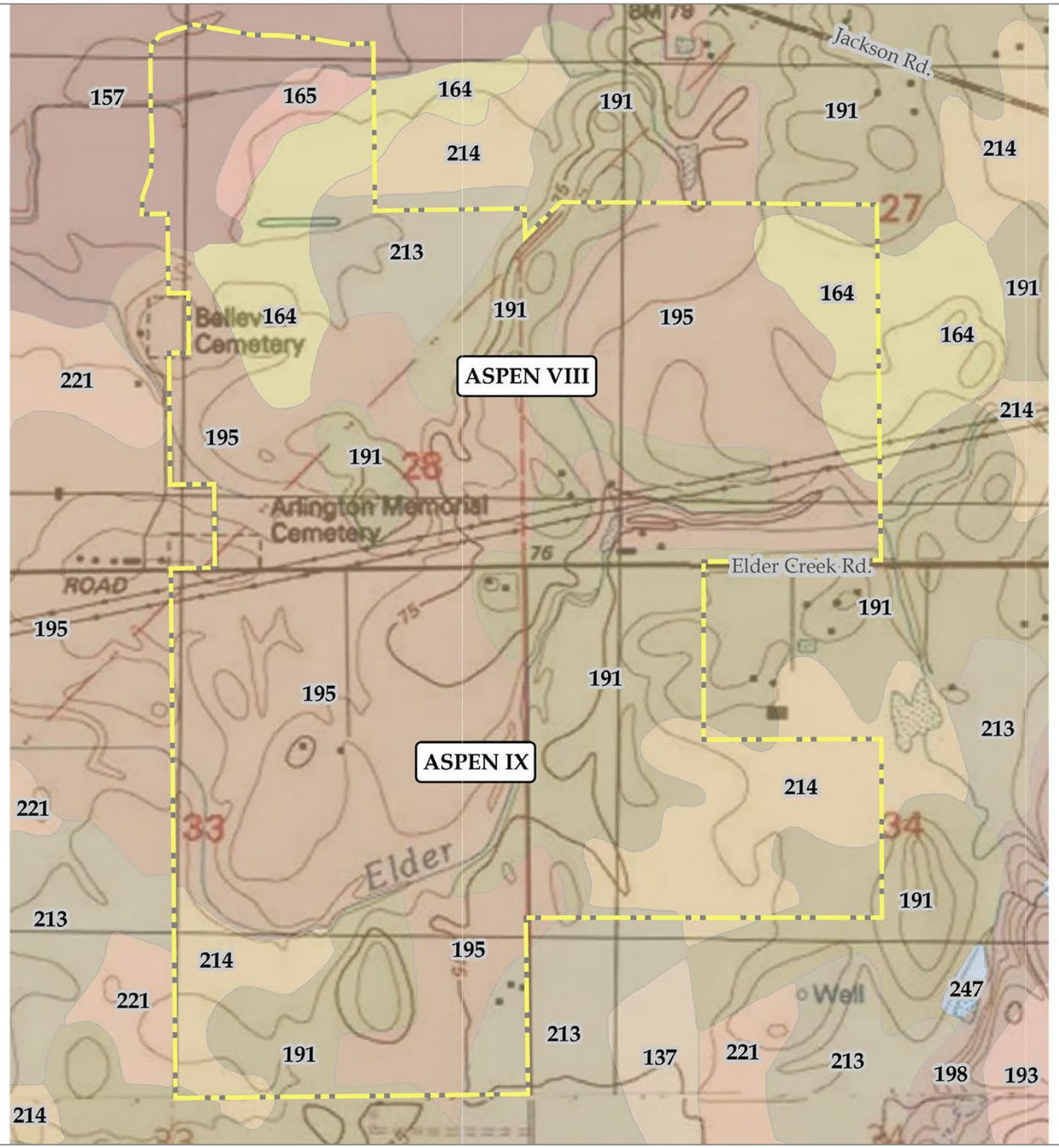


NATURAL RESOURCES CONSERVATION SERVICE SOIL TYPES:

- 137- Durixeralfs, 0 to 1 percent slopes
- 157- Hedge loam, 0 to 2 percent slopes
- 164- Kimball silt loam, 0 to 2 percent slopes
- 165- Kimball silt loam, 2 to 8 percent slopes
- 191- Red Bluff loam, 0 to 2 percent slopes
- 193- Red Bluff-Redding complex, 0 to 5 percent slopes
- 195- Red Bluff-Xerarents complex, 0 to 2 percent slopes
- 198- Redding gravelly loam, 0 to 8 percent slopes
- 214- San Joaquin silt loam, 0 to 3 percent slopes
- 213- San Joaquin silt loam, leveled, 0 to 1 percent slopes
- 221- San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes
- 247- Water
- Amendment Project Boundary

0 600 1,200 Feet

SOURCE:

Soil Survey Provided by USDA: NRCS (version 5, Sept. 16, 2019)
USGS 7.5' Quads: Carmichael & Elk Grove

DISCLAIMER:

The data was mapped for planning purposes only.
No liability is assumed for the accuracy of the data shown.

Sources: Teichert 2024a; adapted by Ascent in 2024.

Figure 2-5: Geologic Setting

PROJECT OBJECTIVES

Outlined below are the primary objectives for the proposed project. The objectives identified for the project were developed in a manner consistent with Section 15124(b) of the CEQA Guidelines and establish a "statement of the objectives sought by the proposed project."

To mine an alluvial sand and gravel deposit, specifically resources that can be used to create Portland Cement Concrete (PCC).

To extract available alluvial aggregate resources located near the urban core prior to encroachment by future urban land uses.

To continue to supply construction materials to the Sacramento County market utilizing Teichert's existing Perkins processing facility and associated infrastructure.

To locate the mining operation in close proximity to Teichert's Perkins processing facility such that mined aggregate can continue to be transported to the facility via an electric conveyor belt system, the use of which minimizes the economic and environmental (i.e., air quality, traffic, noise) impacts associated with hauling material from the mining site to the processing facility.

To expand existing mining operations before seeking to permit entirely new sites.

To utilize lands for resource extraction that are already zoned to allow surface mining.

To mine in an area that would contain a buffer between mining operations and any use potentially incompatible with mining including, but not limited to, residential neighborhoods, schools, or offices.

PROJECT JUSTIFICATION STATEMENT

The County is experiencing a high demand for aggregate products, which includes demand from the Fix 50 project, the Capitol Southeast Connector Expressway project, and the development of many new subdivisions in Vineyard, Rancho Cordova, Elk Grove and Folsom. In order to provide homes, jobs, and other services for the current and future residents of the County, as well as expand and maintain necessary infrastructure for the movement of people and goods, it is imperative that the region continue to identify and permit reliable, cost-effective sources of aggregate material. The project site contains a large quantity of aggregate material which is suitable to make a variety of construction products that are in high demand, including PCC and asphalt-ready products.

The proposed project would continue to supply the Perkins Plant, which is centrally located to many construction operations throughout Sacramento County. In addition, due to its proximity to the plant, aggregate material from the project site would utilize existing aggregate-related infrastructure, such as the existing miles-long electrical

conveyor system and pre-wash facility, which would help to retain existing jobs, provide stability in the marketplace, and reduce costs. As the proposed project would be an extension of the existing Aspen VIII and IX mining areas and operation, the proposed project would be able to benefit from Teichert's previous improvements to flood protection weirs, conveyor under crossings, parking areas, and detention areas.

Furthermore, amending the existing Mining Use Permit, Reclamation Plan, and Development Agreement to allow for an expanded mine boundary would minimize impacts to the natural environment, climate, and local roads. The project site is contiguous to the existing approved project site, thereby localizing environmental effects and maintaining operations in one geographic area. As discussed above, the project site are also located in proximity to the existing Perkins Plant, enabling the mined aggregate material to be transported to the plant via an extension of the existing conveyor belt system rather than by heavy truck trips (refer to Figure 2-2). This transport method eliminates the need for the construction of a new processing plant and the use of haul trucks to transport material. In addition, due to the centralized location of the existing Perkins Plant, construction materials produced at that facility are typically closer to job sites, which may result in shorter haul trips and fewer emissions and roadway impacts.

Lastly, approval of the amendment to the existing Mining Use Permit, Reclamation Plan, and Development Agreement for the proposed project would affect parcels that have already been designated as SM, meaning the County's Board of Supervisors previously determined that surface mining of these parcels is consistent with the County General Plan and the Zoning Code. The SM designation provides an assurance that mining is an appropriate use of the site if conditioned appropriately. Due to the proposed project's consistency with the SM designation, implementation of the proposed project would not be detrimental to the health, safety, comfort, or general welfare of persons living or working in the vicinity of the project site. As discussed above, the majority of the existing land uses surrounding the project site are non-residential uses (e.g., grassland, cemeteries, nurseries, industrial, etc.), which provide a sufficient buffer from existing urbanized uses. Additionally, the proposed project has been designed to minimize impacts to the environment to the maximum extent practicable and Teichert will comply with all conditions of approval and mitigation measures identified by the County to ensure that the overall project operate in a safe, responsible manner.

For these reasons, the proposed project is justified.

PROJECT CHARACTERISTICS

AMENDED PERMITS AND APPROVALS

AMENDED MINING USE PERMIT AND DEVELOPMENT AGREEMENTS

In order to implement the proposed project, amendments to the existing Mining Use Permit and Development Agreement for the approved project would be necessary to

expand the existing mining footprint by 245.6 acres to the north and south. The Amended Mining Use Permit and Development Agreement would add 63.26 acres near the northwest corner of the existing Aspen VIII mining area to create the Aspen VIII Expansion Area and would add 182.38 acres to the existing Aspen IX mining area south of Elder Creek to create the Aspen IX Expansion Area (refer to **Figure 2-6**). In addition to amending the existing Mining Use Permit and Development Agreement, the proposed project would also require amendments to several conditions of approval of the approved project to incorporate the expanded mine areas.

The Amended Mining Use Permit and Development Agreement would also permit the extension and continued use of the existing electric conveyor belt system over Elder Creek to reach the Aspen IX Expansion Area. Use of the existing electrical conveyor belt system would allow the proposed project to continue to transport mined aggregate material from the project site to the existing offsite Perkins Plant rather than needing on-road haul trucks.

In addition, the proposed project would also amend the terms of the existing Mining Use Permit (Condition of Approval #7) to extend surface mining and reclamation activities by 15 years beyond the expiration of the existing entitlements (**Table 2-1**). With approval of the proposed project, surface mining activities would be permitted from the current completion date of December 31, 2031 to a new completion date of December 31, 2045. Final reclamation of the project site would occur over 2 years from 2045 to 2047.

Table 2-1: Proposed Project Phasing*

Phase	Size (acre)	Start	End	Duration
Surface Mining and Localized Reclamation	**245.6**	**2026**	**2045**	**20 years**
Phase 1 – Aspen VIII Expansion Area	*63.26*	*2026*	*2030*	*5 years*
Phase 2 – Aspen IX Expansion Area	*182.38*	*2031*	*2045*	*15 years*
Final Reclamation	**245.6**	**2045**	**2047**	**2 years**

* The identified “Start” and “End” dates are rational assumptions to be utilized for purposes of analysis but may fluctuate based upon market factors and are not intended to control or limit operational durations.

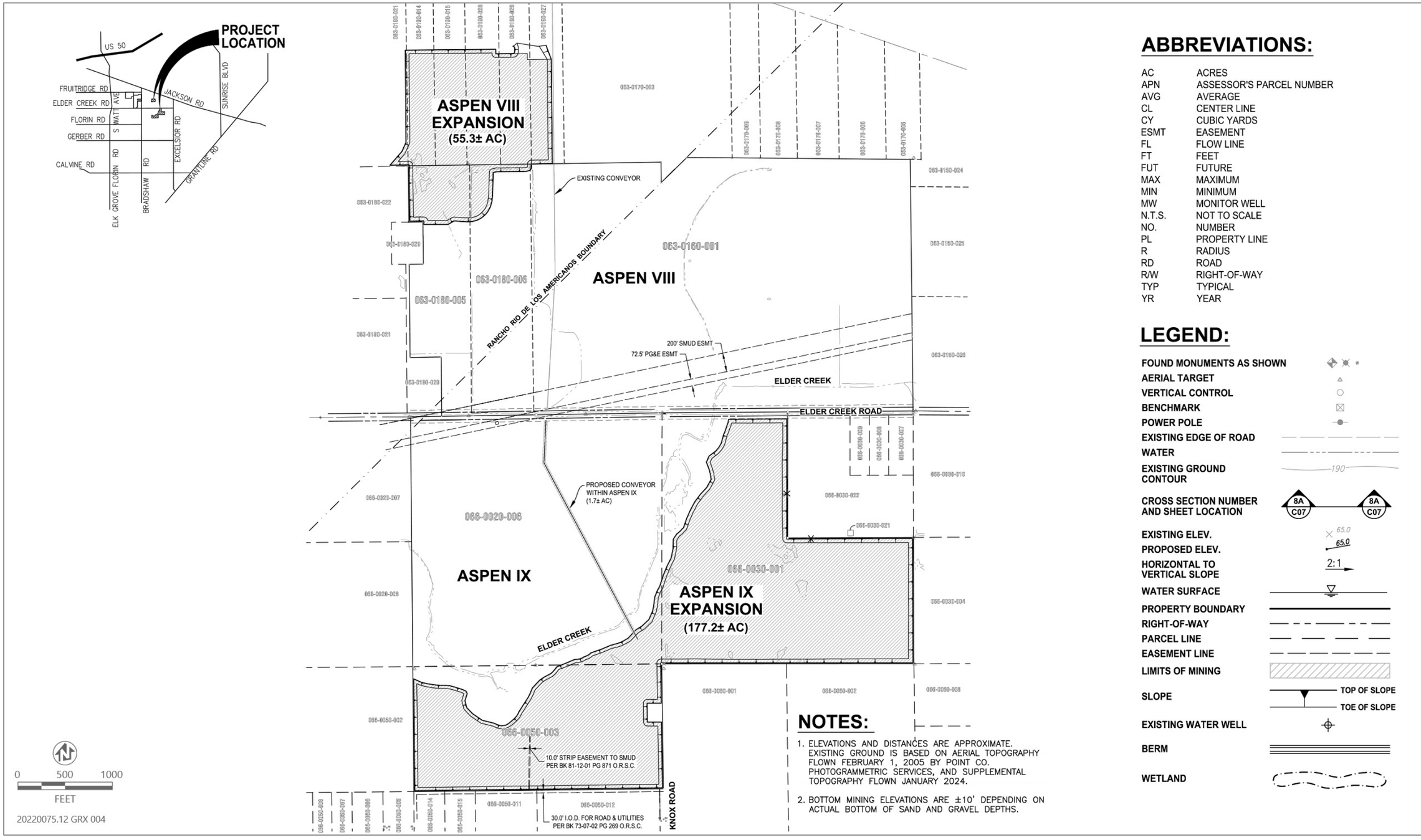
Source: Cronenwett pers. comms., 2024.

Although approval of the Amended Mining Use Permit and Development Agreement would expand the mining footprint by 245.6 acres, the project applicant anticipates a similar operational intensity and annual rate of aggregate extraction for the proposed project as it currently is under the approved project. While the annual rate of aggregate extraction would be driven by market conditions, the average annual rate of aggregate extraction would be expected to slightly fluctuate similar to the market conditions under the approved project. For this reason, no additional employees would be required to operate the proposed project as the existing nine employees currently operating the approved project would be utilized for the proposed project. As such, no additional heavy truck or employee trips would result from implementation of the proposed project. Furthermore, similar to existing conditions under the approved project, aggregate material would not be sold directly from the project site and therefore, no customer-related traffic or parking is included as part of the project.

While the approved project required a rezoning as part of its entitlements, all APNs within the project site are already zoned as SM, which indicates that these parcels have been determined by the County to be appropriate for surface mining with the grant of a mining use permit. Due to the existing SM zoning designation, the proposed project does not require any rezoning and no changes to the existing zoning are included in the Amended Mining Use Permit or Development Agreement.

Amended Reclamation Plan

The proposed project also requires amendments to the existing Reclamation Plan for approved project to include reclamation protocols for the project site. The Amended Reclamation Plan has been prepared for the proposed project pursuant to the California State Surface Mining and Reclamation Act of 1975 and associated regulations and the Sacramento County Code. The Amended Reclamation Plan includes detailed descriptions of existing site conditions (including soils and hydrology), site-specific plans for soils removal/handling and erosion control, protocols for vegetation establishment and protection (including noxious/invasive weed management), and specific monitoring and performance standards for revegetation success. The revegetation methods outlined in the Amended Reclamation Plan would be consistent with the requirements of the South Sacramento Habitat Conservation Plan and are intended to optimize the project site's grazing quality. To ensure the end use of the project site is adequate for grazing, a grazing management plan is included as a component of the Amended Reclamation Plan. Additionally, the Amended Reclamation Plan also aims to increase the aesthetic value of the area, while also improving the foraging habitat for raptors and other species after completion of the project. Refer to "Final Reclamation" below for a detailed description of the proposed reclamation efforts for the proposed project.



ABBREVIATIONS:

AC	ACRES
APN	ASSESSOR'S PARCEL NUMBER
AVG	AVERAGE
CL	CENTER LINE
CY	CUBIC YARDS
ESMT	EASEMENT
FL	FLOW LINE
FT	FEET
FUT	FUTURE
MAX	MAXIMUM
MIN	MINIMUM
MW	MONITOR WELL
N.T.S.	NOT TO SCALE
NO.	NUMBER
PL	PROPERTY LINE
R	RADIUS
RD	ROAD
R/W	RIGHT-OF-WAY
TYP	TYPICAL
YR	YEAR

LEGEND:

- FOUND MONUMENTS AS SHOWN
- AERIAL TARGET
- VERTICAL CONTROL
- BENCHMARK
- POWER POLE
- EXISTING EDGE OF ROAD
- WATER
- EXISTING GROUND CONTOUR (190)
- CROSS SECTION NUMBER AND SHEET LOCATION (8A C07 — 8A C07)
- EXISTING ELEV. (65.0)
- PROPOSED ELEV. (65.0)
- HORIZONTAL TO VERTICAL SLOPE (2:1)
- WATER SURFACE
- PROPERTY BOUNDARY
- RIGHT-OF-WAY
- PARCEL LINE
- EASEMENT LINE
- LIMITS OF MINING
- SLOPE (TOP OF SLOPE / TOE OF SLOPE)
- EXISTING WATER WELL
- BERM
- WETLAND

NOTES:

1. ELEVATIONS AND DISTANCES ARE APPROXIMATE. EXISTING GROUND IS BASED ON AERIAL TOPOGRAPHY FLOWN FEBRUARY 1, 2005 BY POINT CO. PHOTOGRAMMETRIC SERVICES, AND SUPPLEMENTAL TOPOGRAPHY FLOWN JANUARY 2024.
2. BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-6: Proposed Site Plan

PROPOSED PROJECT

PROJECT SITE IMPROVEMENTS

Prior to the commencement of surface mining and localized reclamation activities, various site improvements, including to five existing onsite groundwater wells, would be completed. The proposed project would improve the existing culvert that connects Elder Creek between the Aspen VIII and IX mining areas from underneath Elder Creek Road based on the requirements established in the existing Mining Use Permit (Figure 2-13). The project would also abandon any existing groundwater wells identified within the surface mining footprint in accordance with applicable industry procedures. Groundwater wells located outside of the surface mining footprint but within the project site would be retained for dust control, landscaping, and/or revegetation.

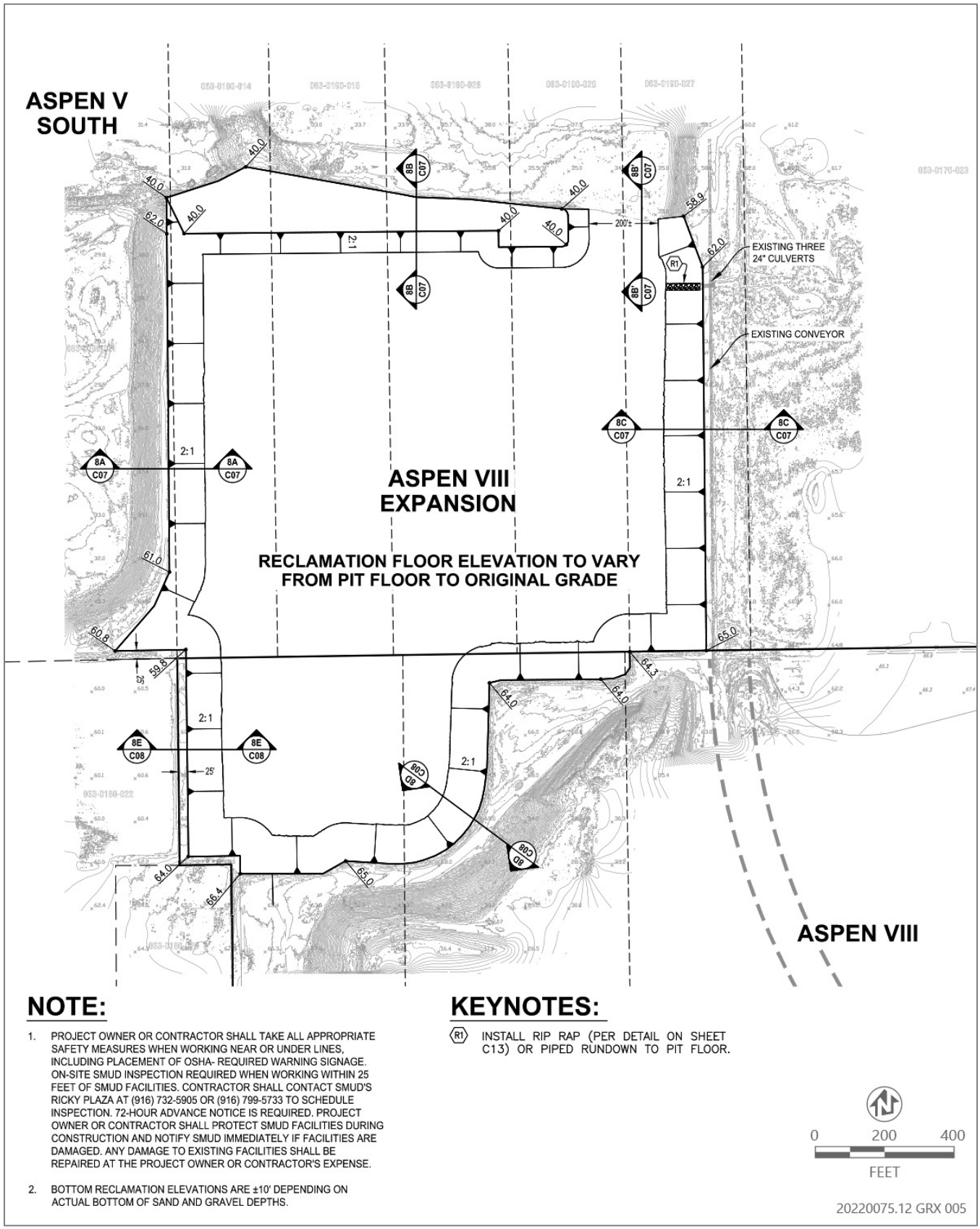
In addition, the proposed project would establish a new site access point along Knox Road to allow employees to access the Aspen IX Expansion Area. A parking lot and staging area would be provided within the project site but outside of the surface mining footprint from the new access point from Knox Road (refer to Figure 2-14). While lighting would be provided within the parking lot and staging area, no additional lighting would be installed along Knox Road.

All required berms and landscaping serving as visual and noise screening would be constructed and planted, respectively, prior to the commencement of surface mining activities, similar to the approved project (refer to Figure 2-13). Any other pre-mining requirements identified as mitigation for the proposed project's impacts, as evaluated within this SEIR, would be implemented during this phase of the proposed project.

SURFACE MINING AND LOCALIZED RECLAMATION ACTIVITIES

Surface mining would occur to an approximate maximum depth of 60 feet below grade surface (bgs), with typical mining depths ranging from 30 to 50 feet bgs (**Figures 2-7 through 2-11**). The project site contains approximately 8 to 13 million tons of additional aggregate material and approximately 2.9 million cubic yards (cy) of overburden. Consistent with the approved project, extraction rates under the proposed project would vary as a function of market demand, with a maximum annual extraction rate estimated at approximately 1 to 3 million tons per year and a total extraction rate estimated at approximately 13 million tons.

Once all site improvements have been completed, the surface mining and localized reclamation activities would occur over two phases, beginning with the Aspen VIII Expansion Area. Phase 1 of surface mining and localized reclamation would begin within the Aspen VIII Expansion Area and would progress south toward the existing Aspen VIII mining area. While Phase I is ongoing, a conveyor bridge would be constructed south of the existing Aspen IX mining area across Elder Creek to provide access to the Aspen IX Expansion Area. Once surface mining and localized reclamation of the Aspen VIII Expansion Area is completed, Phase 2 would begin, which consists of surface mining and localized reclamation of the Aspen IX Expansion Area. Phase 2 is anticipated to commence near the extended conveyor belt system and move outward towards the mining footprint boundary.

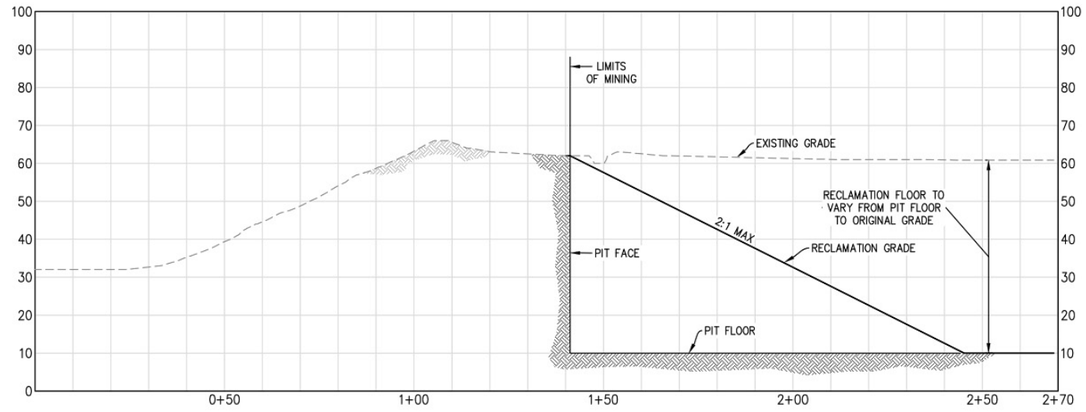


Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-7: Aspen VIII Expansion Area Mining Plan

NOTE:

1. BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.



SECTION 8A

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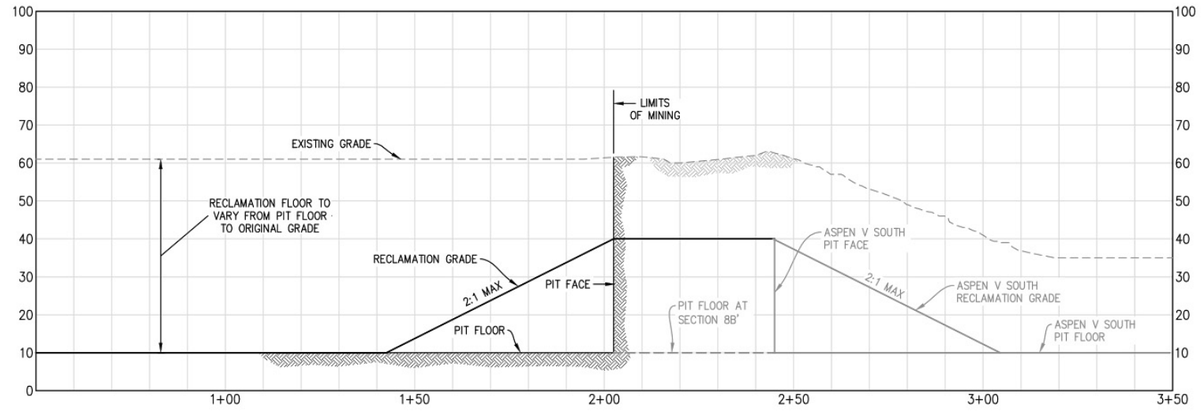

SECTIONS 8B & 8B'

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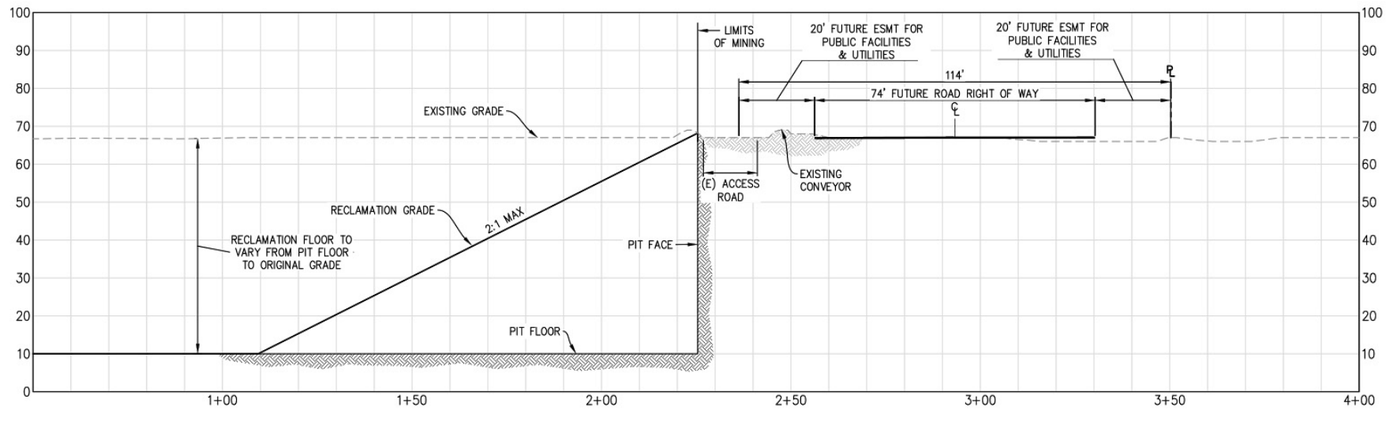


SECTION 8C

SCALE= 1" = 40'

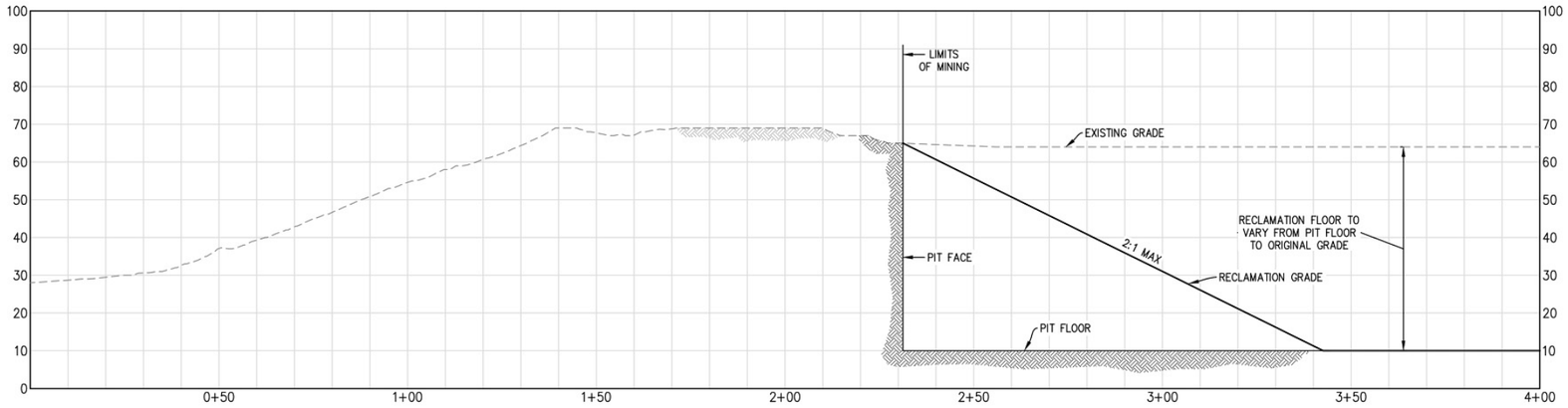
20220075.12 GRX 006

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-8a: Aspen VIII Expansion Area Mining Plans – Phase 1 Mining Detail

NOTE:

1. BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.



SECTION 8D

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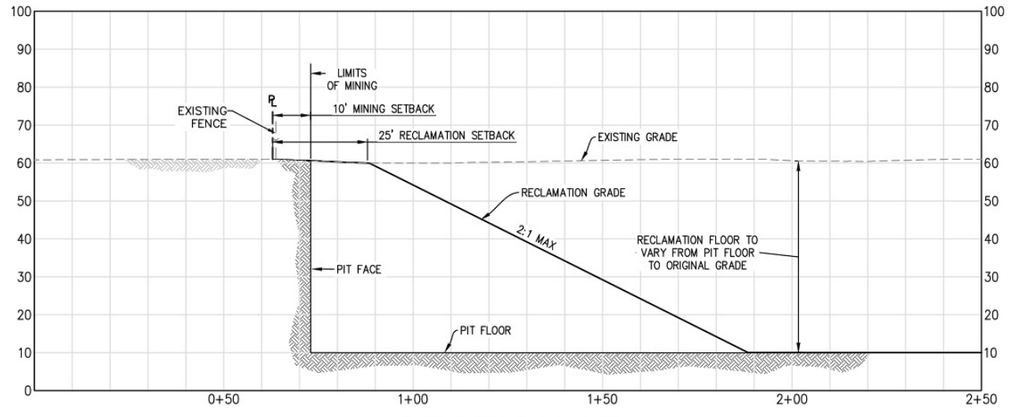


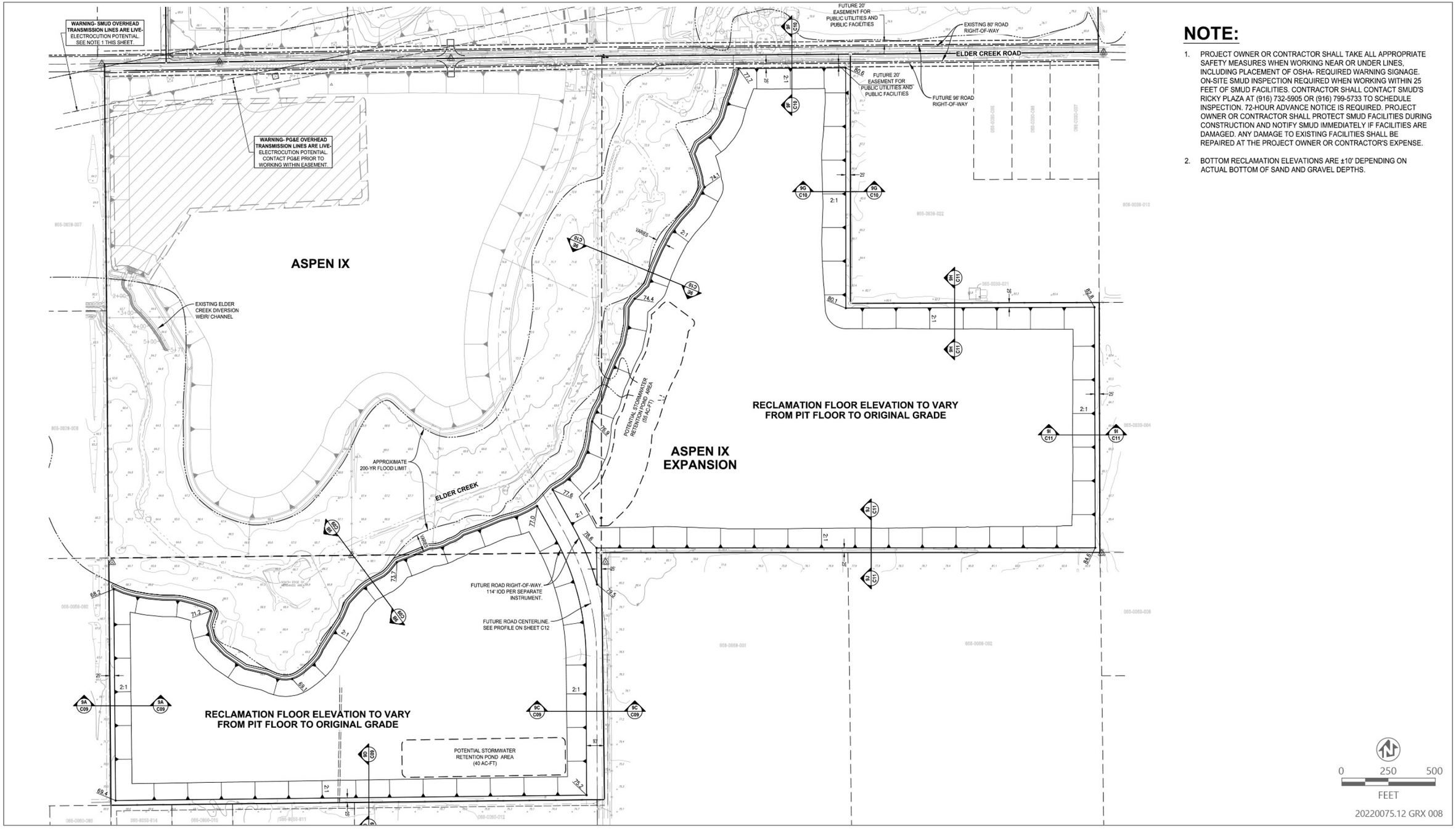
SECTION 8E

SCALE= 1" = 40'

20220075.12 GRX 007

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-8b: Aspen VIII Expansion Area Mining Plans – Phase 1 Mining Detail



NOTE:

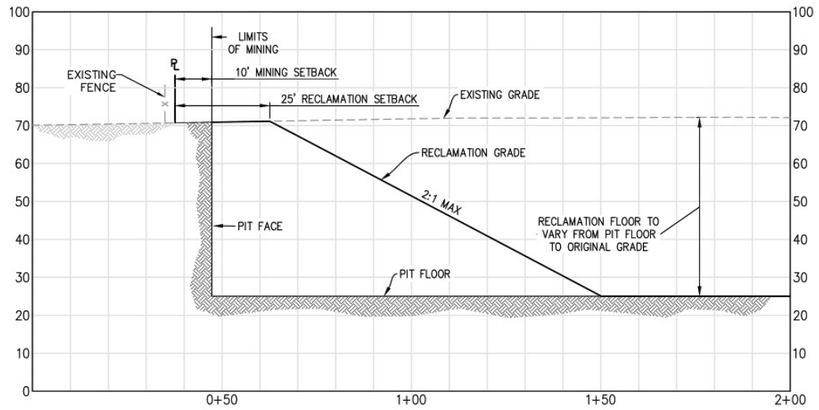
1. PROJECT OWNER OR CONTRACTOR SHALL TAKE ALL APPROPRIATE SAFETY MEASURES WHEN WORKING NEAR OR UNDER LINES, INCLUDING PLACEMENT OF OSHA- REQUIRED WARNING SIGNAGE. ON-SITE SMUD INSPECTION REQUIRED WHEN WORKING WITHIN 25 FEET OF SMUD FACILITIES. CONTRACTOR SHALL CONTACT SMUD'S RICKY PLAZA AT (916) 732-5905 OR (916) 799-5733 TO SCHEDULE INSPECTION. 72-HOUR ADVANCE NOTICE IS REQUIRED. PROJECT OWNER OR CONTRACTOR SHALL PROTECT SMUD FACILITIES DURING CONSTRUCTION AND NOTIFY SMUD IMMEDIATELY IF FACILITIES ARE DAMAGED. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE PROJECT OWNER OR CONTRACTOR'S EXPENSE.
2. BOTTOM RECLAMATION ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-9: Aspen IX Expansion Area Mining Plan

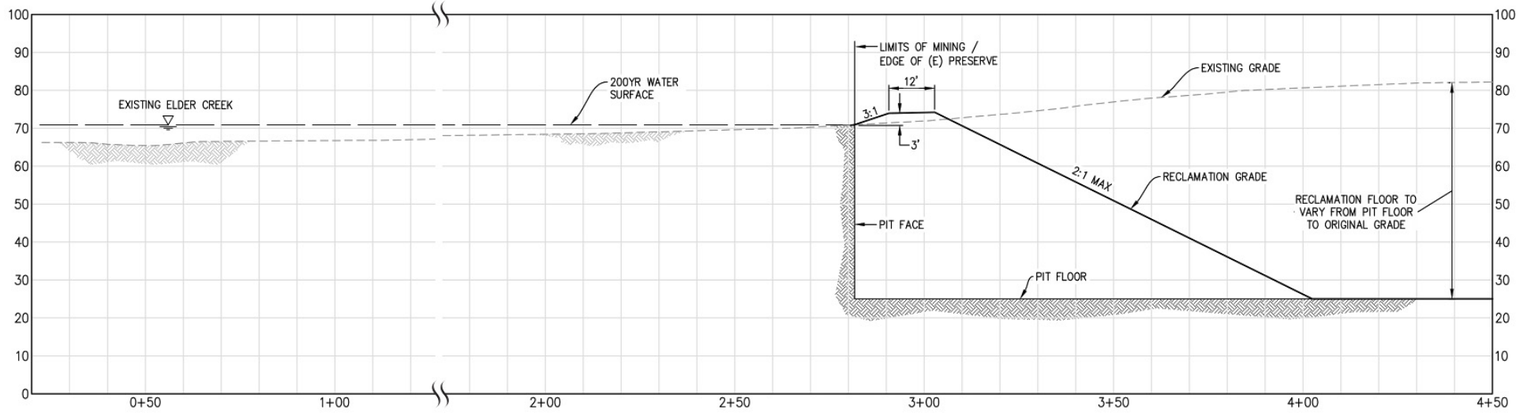
NOTE:

1. BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.



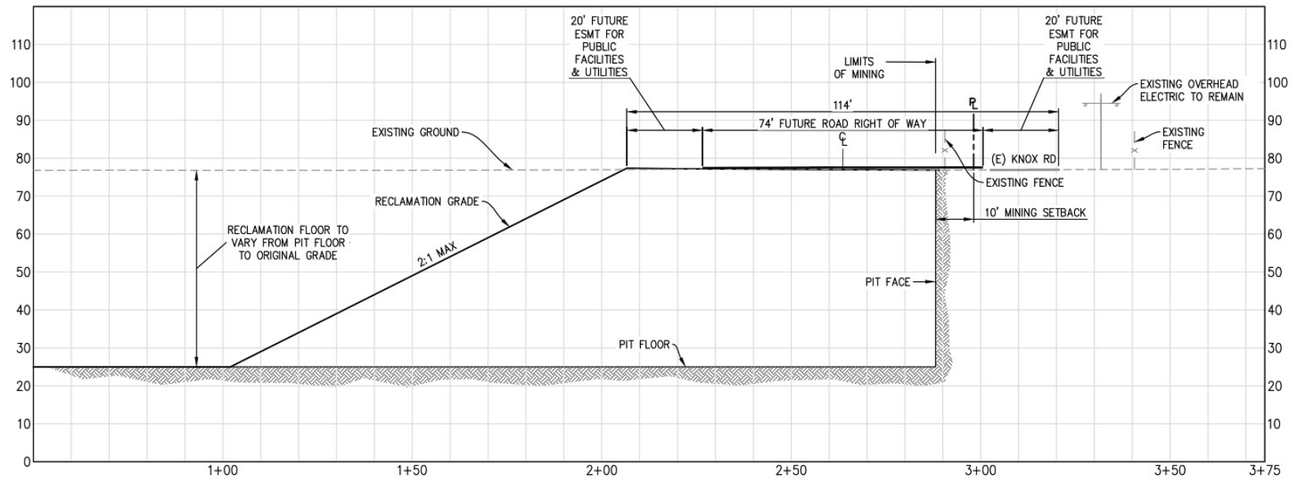
SECTION 9A

SCALE= 1" = 40'



SECTION 9B

SCALE= 1" = 40'



SECTION 9C

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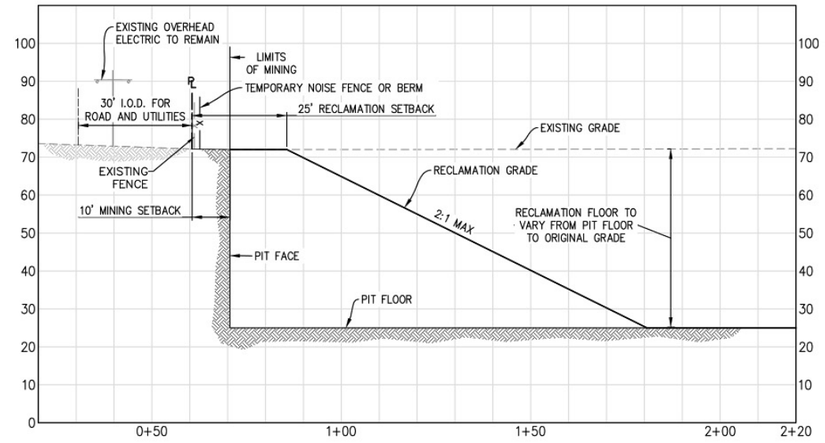


SECTION 9D

SCALE= 1" = 40'

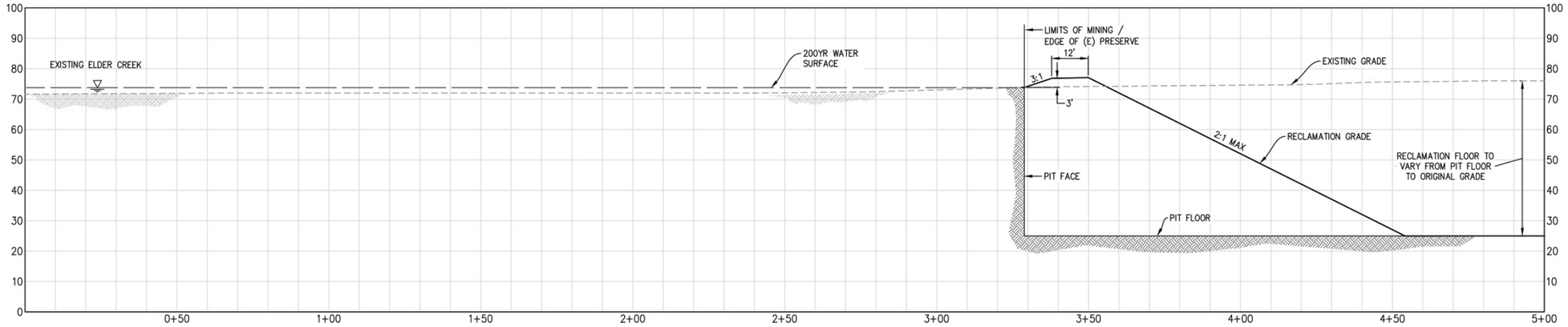
20220075.12 GRX 009

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-10a: Aspen IX Expansion Area Mining Plans – Phase 2 Mining Detail

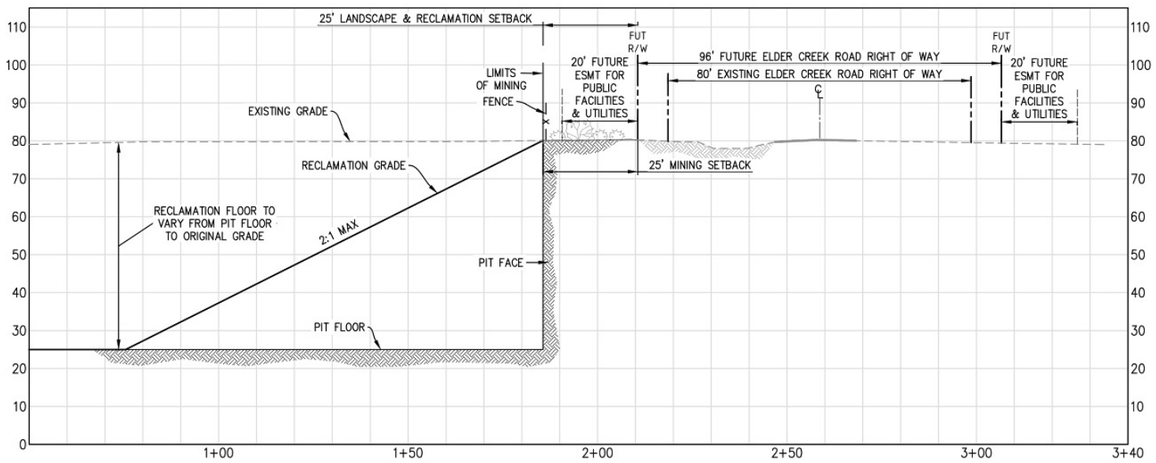
NOTE:

1. BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.



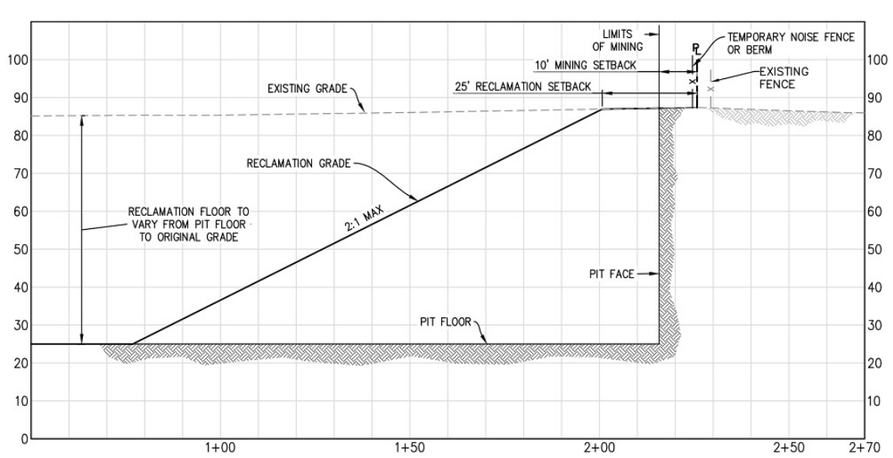
SECTION 9E

SCALE= 1" = 40'



SECTION 9F

SCALE= 1" = 40'



SECTION 9G

SCALE= 1" = 40'

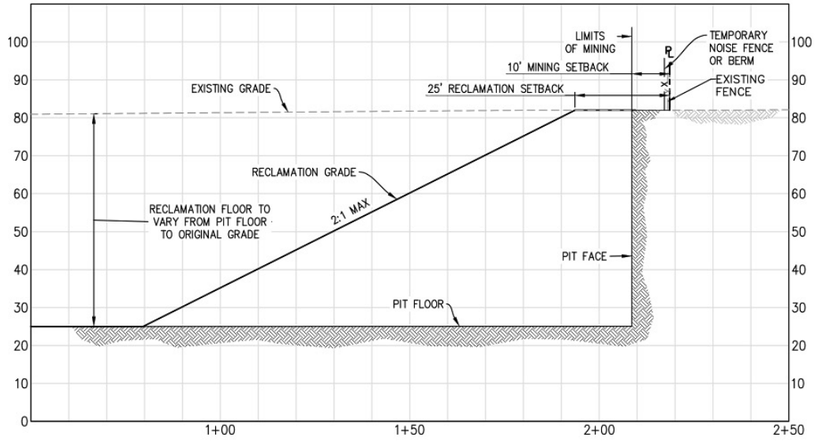
20220075.12 GRX 010

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-10b: Aspen IX Expansion Area Mining Plans – Phase 2 Mining Detail

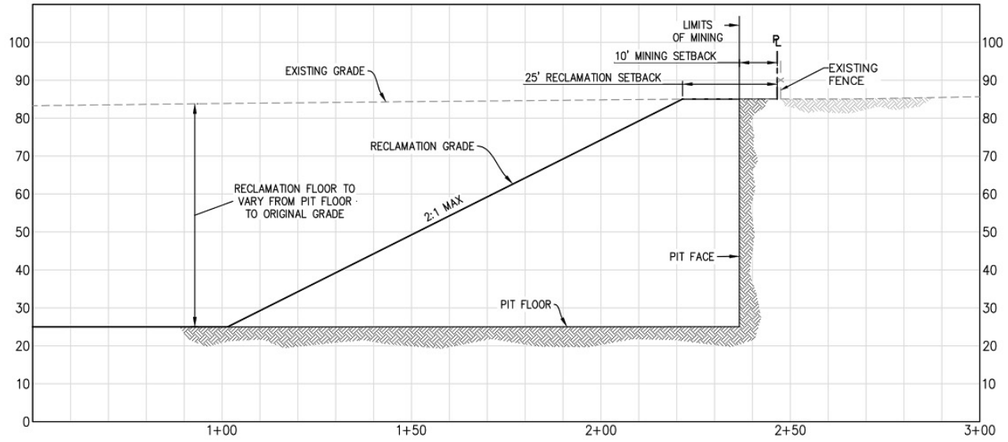
NOTE:

1. BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.



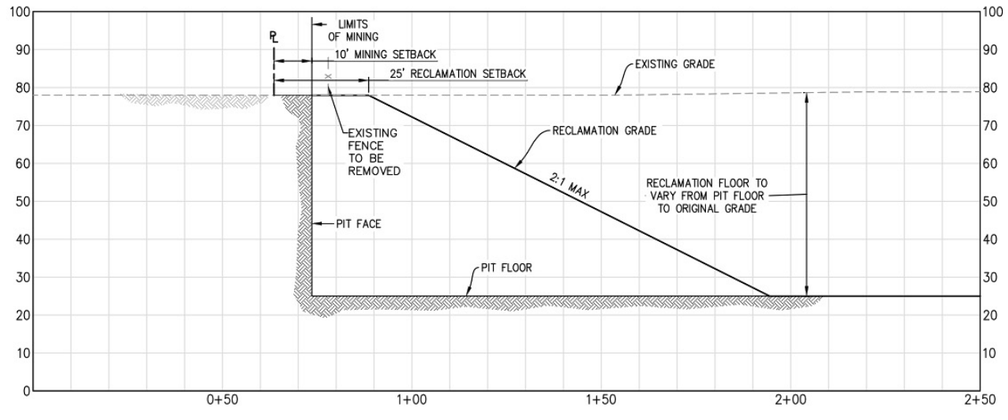
SECTION 9H

SCALE= 1" = 40'



SECTION 9I

SCALE= 1" = 40'



SECTION 9J

SCALE= 1" = 40'

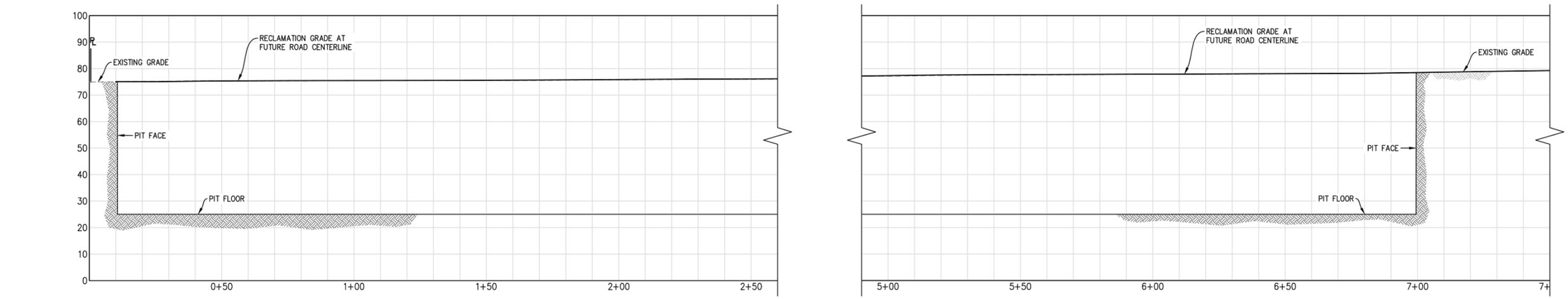
20220075.12 GRX 011

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-10c: Aspen IX Expansion Area Mining Plans – Phase 2 Mining Detail

NOTE:

1. BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF SAND AND GRAVEL DEPTHS.



FUTURE ROAD CENTERLINE PROFILE

SCALE= 1" = 40'

20220075.12 GRX 012

Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-11: Future Knox/Vineyard Road Profile

The proposed surface mining process includes removal of overburden, stockpiling overburden for reclamation, and surface mining within smaller subareas within the Aspen VIII and IX Expansion Areas. As surface mining progresses in one subarea, removal of topsoil would begin in the next subarea. Once surface mining is complete in one subarea, overburden would be added back into that subarea as localized reclamation activities begin. This process would continue in this manner for the life of the surface mining phase of the proposed project (i.e., 2026-2045) and is assumed to be continuous. Specifically, surface mining activities would commence with the removal of several feet of topsoil followed by the removal of 4 to 20 feet of clay and sand overburden which overlays the aggregate deposits. Once the topsoil and overburden are removed to expose the aggregate deposit, extraction of the aggregate resource, typically ranging in thickness from 15 to 35 feet, would begin using a variety of heavy construction equipment.

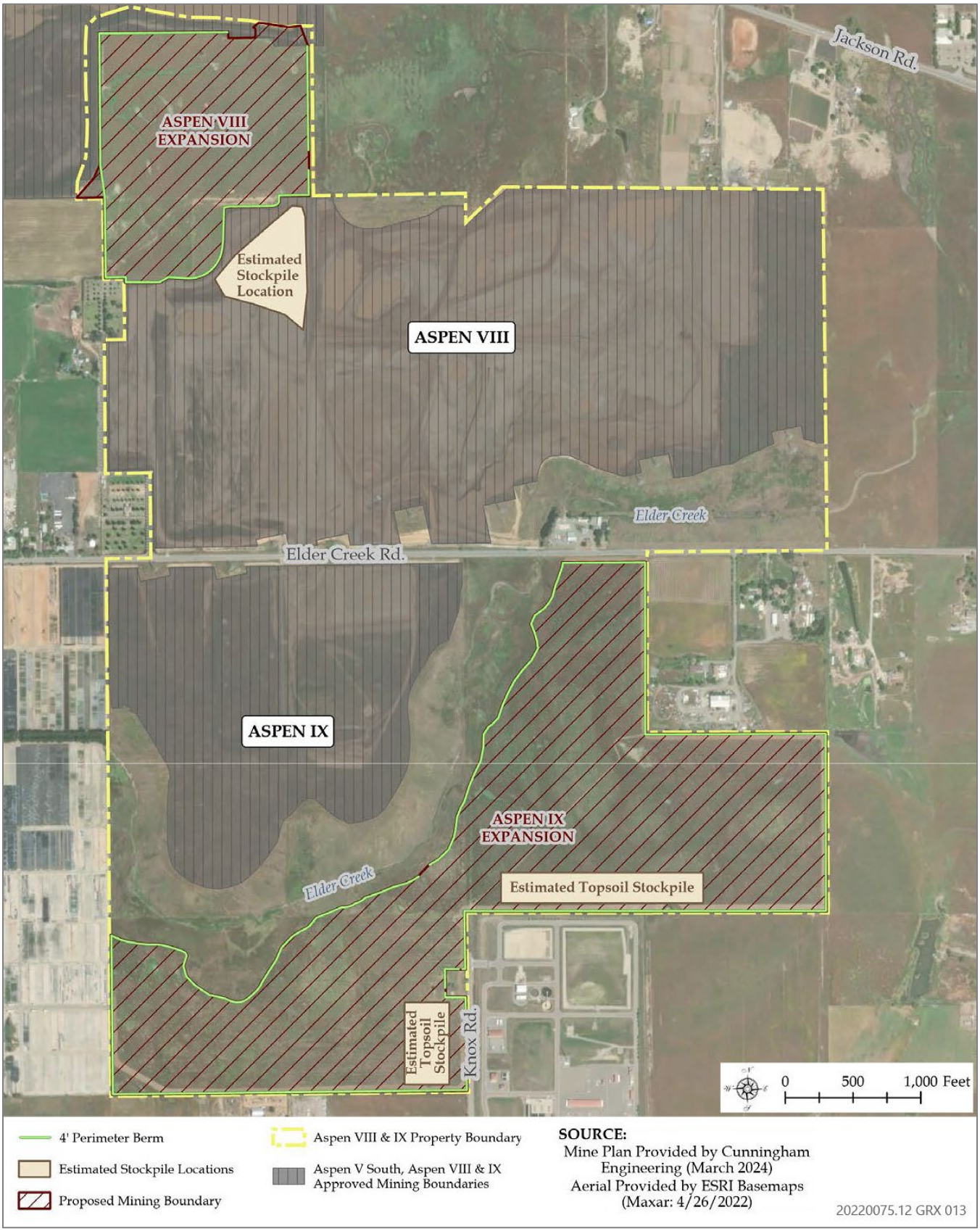
Topsoil and overburden removal would not precede surface mining activities by more than one year. The removed topsoil and other overburden material would be used for localized reclamation as soon as could be accommodated by the surface mining schedule. Topsoil that couldn't be utilized immediately for reclamation would be stockpiled in areas where it would not be disturbed until utilized for reclamation (**Figure 2-12**). If long-term storage is necessary, stockpiles would be seeded to control erosion and the loss of biological components. Topsoil would be redistributed in such a manner that places it on top of the reclaimed surface in a stable form and uniform thickness.

Heavy construction equipment used for the project would typically consist of a combination of backhoes, front loaders, bulldozers, scrapers, onsite haul trucks, and blade/motor-grinders. Heavy construction equipment would be brought onsite from the approved project site and would remain onsite for the lifetime of the proposed project. While the surface mining phase would use the greatest mix of heavy-duty construction equipment, localized and final reclamation activities would also use heavy-duty construction equipment, although to a lesser extent and for shorter durations.

Extracted aggregate material from the project site would be transported via the existing electric conveyor belt system to the existing Perkins Plant, which is located approximately four miles to the northwest. As the existing conveyor belt system already runs along the eastern boundary of the Aspen VIII Expansion Area, no changes would be needed to use the conveyor belt system when mining in the Aspen VIII Expansion Area. However, for mining in the Aspen IX Expansion Area, the existing conveyor belt system would be extended from the center of the existing Aspen IX mining area across Elder Creek and the Preserve into the Aspen IX Expansion Area.

Water from existing onsite groundwater wells outside of the surface mining footprint would be used for dust-suppression purposes on exposed areas disturbed by mining activities, internal haul roads, and material stockpiles, as necessary, in order to minimize fugitive dust. The groundwater well near the future Knox Road entrance and parking area would be retained to supply water long term for dust suppression.

The proposed project would not amend the allowable hours established by the existing Mining Use Permit, which permits operations between 4 a.m. to 10 p.m.; however, typical operations would occur from 6 a.m. to 9 p.m. on weekdays. No surface mining would occur overnight but portable lighting may be used for dark hours depending on the time of year.



Sources: Cronenwett pers. comms., 2024; adapted by Ascent in 2024.

Figure 2-12: Proposed Stockpile Locations

Final Reclamation Phase

Once surface mining and localized reclamation activities are complete, the project site would be reclaimed with a similar end use as the approved project, which consist of open space annual grassland, irrigated pasture suitable for grazing, and stormwater retention pond areas (Figure 2-15). To achieve this end use, overburden and topsoil would be placed and graded to provide an appropriate growing medium for the establishment of a protective vegetative cover and future forage use. Slopes would be reclaimed to no steeper than two feet horizontal to one foot vertical (2:1), with rounded edges in order to mimic surrounding landforms, and then seeded to prevent erosion. After reclamation slopes have been constructed, the pit floor would be completed and seeded with an appropriate grassland or pasture seed mix selected for forage value. Final reclamation would create a total of approximately 62 acres of grassland slopes surrounding approximately 158 acres of annual grassland habitat within the reclaimed floor. Approximately 16 acres of other areas, such as those used for former stockpile areas, berms, future pads for road rights-of-way, etc., would also be restored back to grassland habitat.

In addition, stormwater runoff within the project site would be controlled via drainage systems specific to each expansion area. For the Aspen VIII Expansion Area, stormwater would be directed from the existing culverts via a riprap or piped rundown to the existing Aspen VIII mining area pit floor. Stormwater runoff would then be directed into the existing Aspen V South mining area via an approximate 200-foot-wide opening, which would ensure existing drainage conditions are maintained with the proposed project (refer to **Figure 2-13**).

For the Aspen IX Expansion Area, two stormwater retention pond areas, approximately 10 acres in size with a total storage capacity of approximately 95 acre-feet, would be created on the pit floor to collect surface runoff, provide supplementary water sources for cattle, and protect surrounding land (refer to **Figure 2-15**). The proposed stormwater retention areas would be designed and sized to contain average yearly rainfall levels as well as accommodate a 100-year, 10-day storm event (Cunningham Engineering 2024; Appendix F). Berms would be constructed to keep the proposed Aspen VIII and IX Expansion Areas hydraulically separated from Elder Creek.

It should be noted that the County recently adopted the WJHMP, which includes the project site within its master plan area (County of Sacramento 2025). With approval of the WJHMP, the project site would be subject to the WJHMP's land use plan after the project site has been completely reclaimed in accordance with the Amended Reclamation Plan. For more information on the WJHMP and future use of the project site once final reclamation is completed, please refer to the WJHMP and its EIR on the County's website at https://planning.saccounty.gov/PlansandProjectsIn-Progress/Pages/WestJacksonHighwayMasterPlan.aspx.

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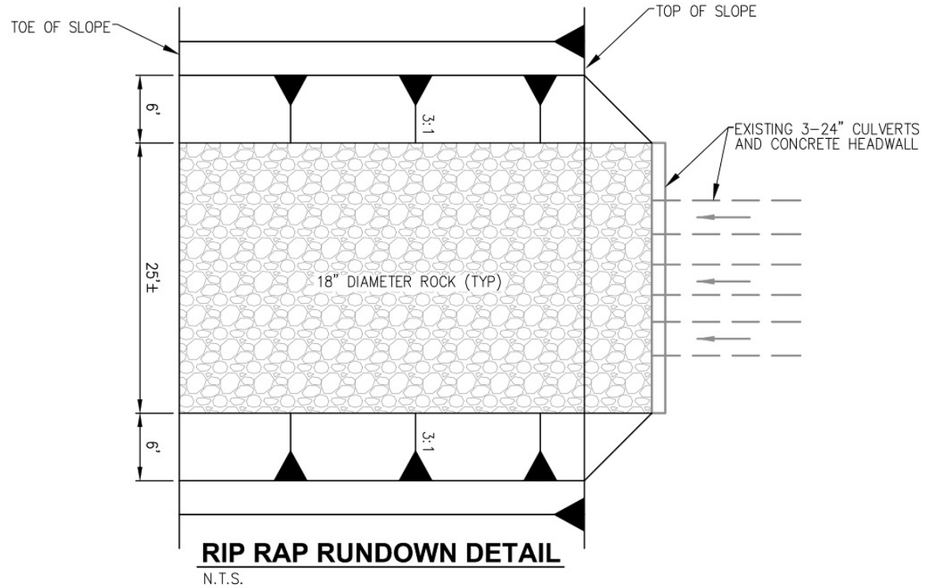
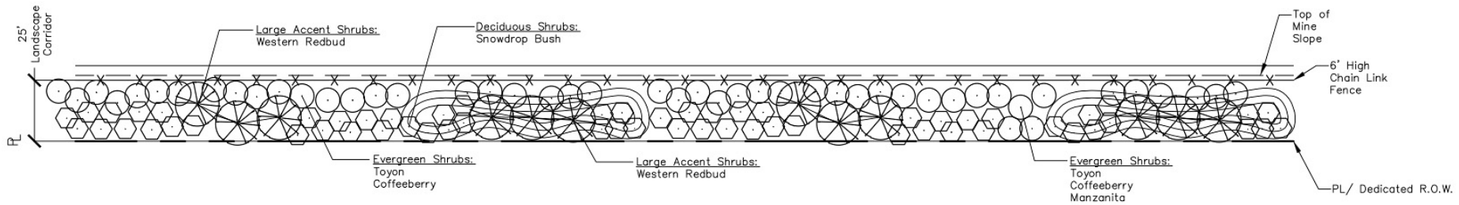


RIP RAP RUNDOWN DETAIL
N.T.S.



Botanical Name	Common Name	Type	Mature Height
Shrubs:			
Cercis occidentalis	*Western Redbud	Deciduous	10–18'
Heteromeles arbutifolia	*Toyon	Evergreen	6–20'
Rhamnus tomentella	Hoary Coffeeberry	Evergreen	6–12'
Styrax officinalis	Snowdrop Bush	Deciduous	4–12'
Arctostaphylus Densiflora	'Howard McMinn' Manzanita	Evergreen	8–12'

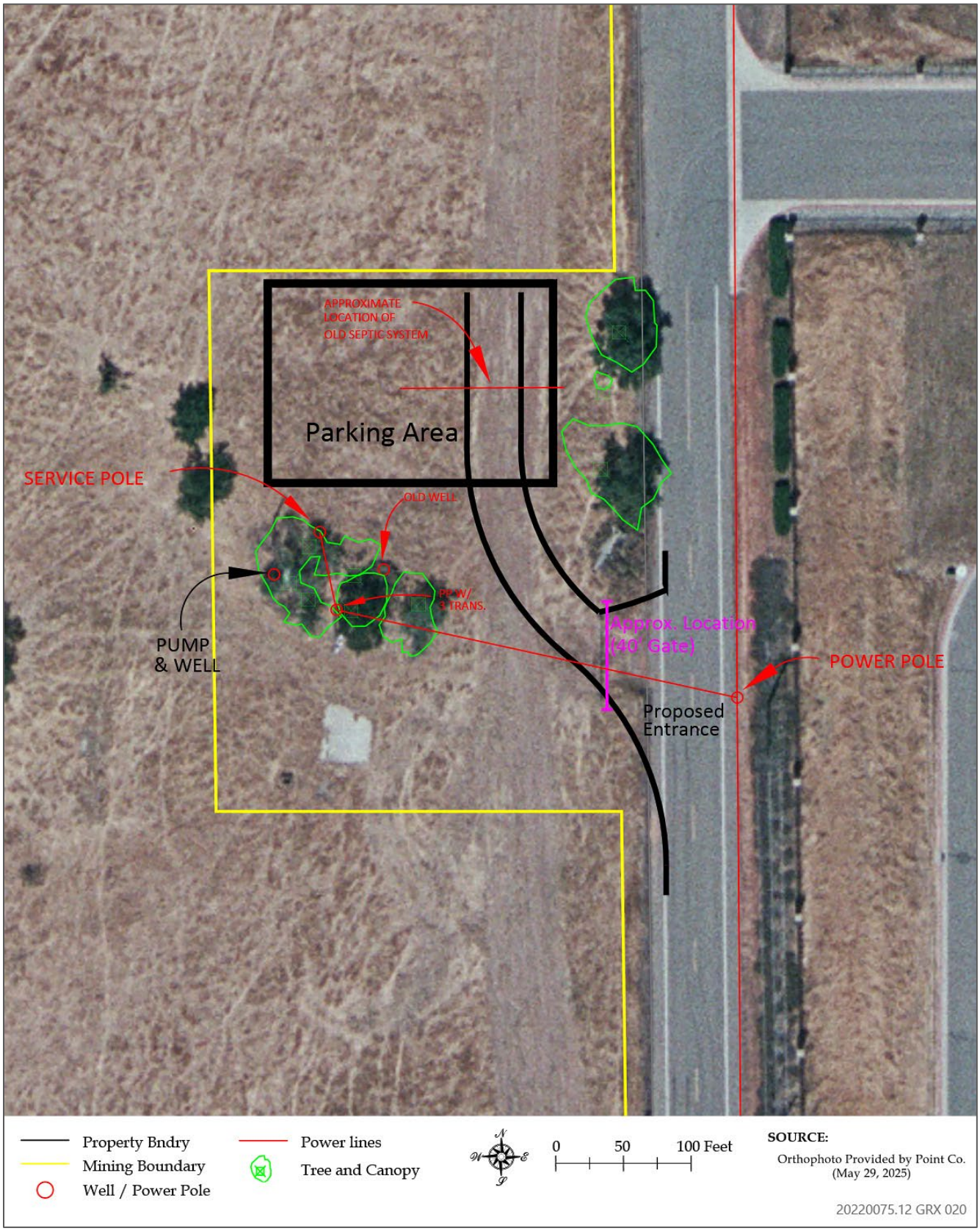
SHRUB VISUAL SCREEN CORRIDOR
N.T.S.

*NOTE: DO NOT PLANT THIS VARIETY WITHIN SMUD OR PG&E EASEMENTS

20220075.12 GRX 014

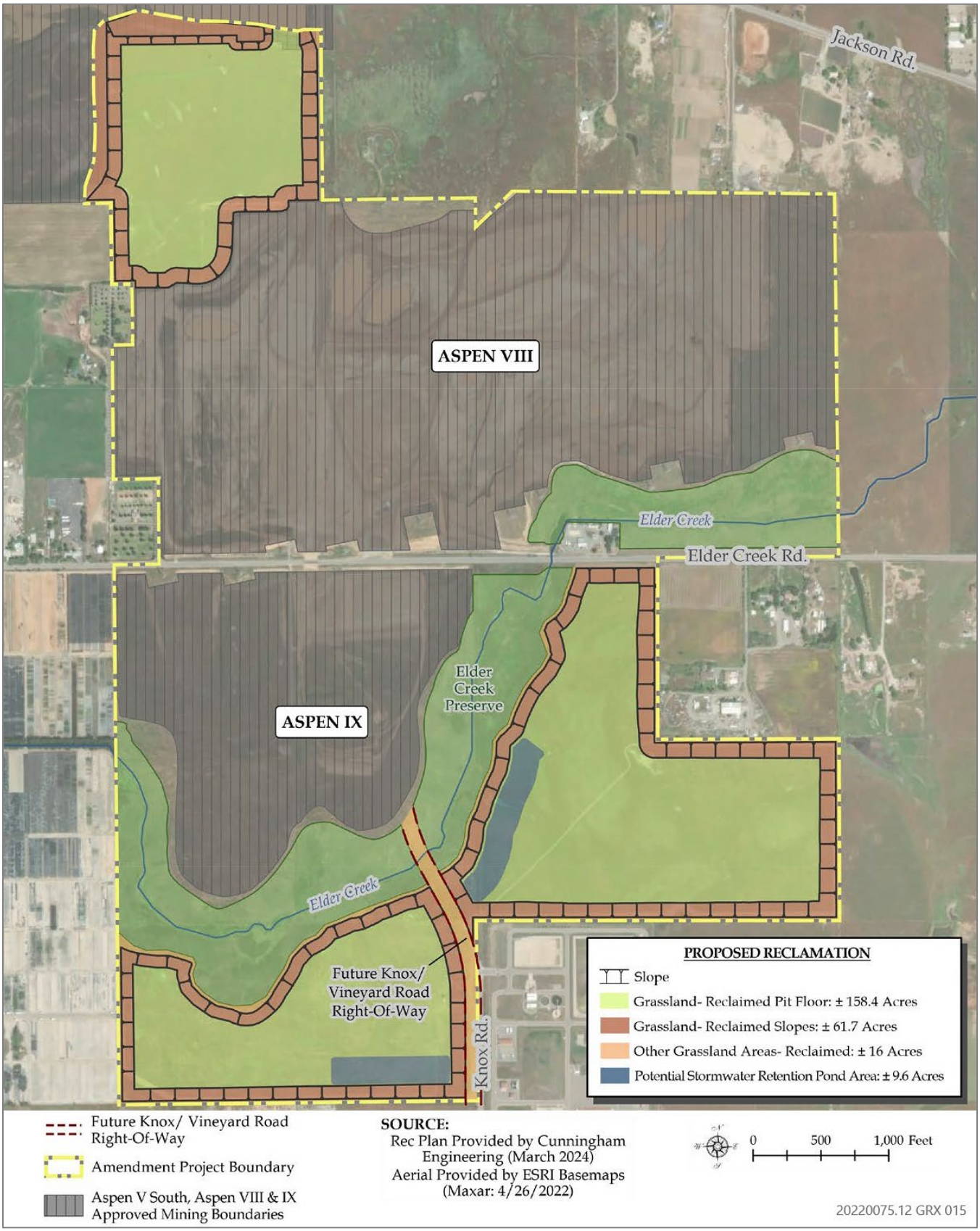
Sources: Teichert 2024c; adapted by Ascent in 2024.

Figure 2-13: Proposed Landscaping and Culvert Details



Sources: Cronenwett pers. comms., 2025; adapted by Ascent in 2025.

Figure 2-14: Proposed Site Access along Knox Road



Sources: Teichert 2024a; adapted by Ascent in 2024.

Figure 2-15: Proposed Amended Reclamation Plan

Required Discretionary Actions

Lead Agency

The SEIR is intended to apply to the project approvals listed below, as well as to any other approvals that may be necessary to implement the proposed project. The County of Sacramento is the CEQA lead agency for the project. The Sacramento County Board of Supervisors will use the information contained in the SEIR in evaluating the proposed project and rendering a decision to approve or deny approvals of the project. County of Sacramento officials and agencies will use the SEIR for other County permits and approvals of the project authorized or required by the County code and/or state law.

The following amendments to the entitlements for the approved project are requested from Sacramento County:

1. Mining Use Permit Amendment –

    - To expand the mine boundary and allow for a continuation of surface mining onto adjacent lands previously not identified for mining.

    - To amend condition of approval 6 to allow for utilization of the electronic conveyor system on portions of APNs 063-0190-014, 063-0190-015, 063-0190-027, 063-0190-028, 063-0190-029, 066-0050-003, and 066-0030-001.

    - To amend condition of approval 7 to extend the term of the permit to December 31, 2045, with reclamation to be completed within two years of Mining Use Permit expiration.

    - To amend condition of approval 17 regarding embankment and slope design adjacent to Elder Creek in the Aspen IX South expansion area.

2. Reclamation Plan Amendment – to amend the area identified for reclamation, amend the associated text of the plan, and extend anticipated date of completion.

3. Development Agreement Amendment – modifying the agreement term to be applicable to the duration of this amendment. Specifically, this would require a modification to section 1.7 of the current Development Agreement.

In addition to amending the approved project's existing entitlements, the proposed project would also be required to obtain the permits and approvals from Sacramento County, as summarized in Table 2-2.

Table 2-2: Required Permits and Approvals for the Proposed Project from Sacramento County

Agency	Approval
Sacramento County Board of Supervisors	Adoption of proposed project and certification of Final Supplemental Environmental Impact Report
Sacramento County Board of Supervisors	Amended Mining Use Permit, Reclamation Plan, and Development Agreement; Special Development Permit; and Design Review
Sacramento County Planning Commission	Recommendation to the Board of Supervisors regarding Amended Mining Use Permit, Reclamation Plan, and Development Agreement, Special Development Permit, and Design Review
County of Sacramento as part of the South Sacramento Conservation Agency	South Sacramento Habitat Conservation Plan (SSHCP) Permit
Sacramento County Site Improvement and Permit Section	Approval of Mining Improvement Plans/Grading Permit
Sacramento County Department of Transportation	Encroachment Permit
Sacramento County Environmental Management Department	On-site Wastewater Disposal Permit or Well Certification

Responsible Agencies

The SEIR will also serve as the CEQA document for approvals of the proposed project by other local and state agencies with discretionary authority regarding the project (i.e., Responsible Agencies). Responsible Agencies pursuant to CEQA Guidelines Section 15381 may include, but are not limited to:

- US Army Corps of Engineers,
- California Department of Fish and Wildlife,
- California Department of Conservation, Division of Mine Reclamation,
- Regional Water Quality Control Board - Central Valley Region,
- Sacramento Metropolitan Air Quality Management District, and
- Sacramento Municipal Utility District.

Table 2-3 summarizes the required permits and approvals needed from these Responsible Agencies to implement the proposed project.

Table 2-3: Required Permits and Approvals for the Proposed Project from Responsible Agencies

Agency	Approval
US Army Corps of Engineers	Section 404 Permit
California Department of Fish and Wildlife	Section 1602 Permit (Lake and Streambed Alteration Agreement), California Endangered Species Act Take Permit
California Department of Conservation, Division of Mine Reclamation	Approval of the Amended Reclamation Plan
Regional Water Quality Control Board – Central Valley Region	Section 401 Certification, Section 402 Permit, National Pollutant Discharge Elimination System Permit Compliance, and Waste Discharge Permit
Central Valley Flood Protection Board	Permit for potential railcar crossing of Elder Creek
Sacramento Metropolitan Air Quality Management District	Fugitive Dust Prevention and Control Plan
Sacramento Municipal Utility District	Various Agreements

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3 ALTERNATIVES

INTRODUCTION

State CEQA Guidelines Section 15126.6(a) requires EIRs to describe "a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives. An EIR need not consider every conceivable alternative to a project. Rather, it must consider a range of potentially feasible alternatives that will avoid or substantially lessen the significant adverse impacts of a project and foster informed decision making and public participation. An EIR is not required to consider alternatives that are infeasible. The lead agency is responsible for selecting a range of project alternatives for examination and must publicly disclose its reasoning for selecting those alternatives. There is no ironclad rule governing the nature or scope of the alternatives to be discussed other than the rule of reason." This section of the State CEQA Guidelines also provides guidance regarding what the alternatives analysis should consider. Subsection (b) further states the purpose of the alternatives analysis is as follows:

> Because an EIR must identify ways to mitigate or avoid the significant effects that a project may have on the environment (Public Resources Code [PRC] Section 21002.1), the discussion of alternatives shall focus on alternatives to the project or its location which are capable of avoiding or substantially lessening any significant effects of the project, even if these alternatives would impede to some degree the attainment of the project objectives, or would be more costly.

The State CEQA Guidelines require that the EIR include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the proposed project. If an alternative would cause one or more significant effects in addition to those that would be caused by the project as proposed, the significant effects of the alternative must be discussed, but in less detail than the significant effects of the project as proposed (Section 15126.6[d]).

The State CEQA Guidelines further require that the "no project" alternative be considered (Section 15126.6[e]). The purpose of describing and analyzing a no project alternative is to allow decision makers to compare the impacts of approving a proposed project with the impacts of not approving the proposed project. If the no project alternative is the environmentally superior alternative, CEQA requires that the EIR "shall also identify an environmentally superior alternative among the other alternatives" (Section 15126[e][2]).

In defining "feasibility" (e.g., "feasibly attain most of the basic objectives of the project"), Section 15126.6(f)(1) states, in part:

> Among the factors that may be taken into account when addressing the feasibility of alternatives are site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context), and whether the proponent can reasonably acquire, control or otherwise have access to the alternative site (or the site is already owned by the proponent). No one of these factors establishes a fixed limit on the scope of reasonable alternatives.

In determining what alternatives should be considered in the EIR, it is important to consider the objectives of the project, the project's significant effects, and unique project considerations. These factors are crucial to the development of alternatives that meet the criteria specified in Section 15126.6(a). Although, as noted above, EIRs must contain a discussion of "potentially feasible" alternatives, the ultimate determination as to whether an alternative is feasible or infeasible is made by the lead agency's decision-making body, here the Sacramento County Board of Supervisors. (See CEQA Sections 21081.5 and 21081[a][3].)

State CEQA Guidelines Section 15163(b) states a "supplement to an EIR need contain only the information necessary to make the previous EIR adequate for the project as revised". The alternatives analysis provided below alternatives to the proposed amendment to the approved Mining Use Permit and Reclamation Plan for the Aspen VIII and IX Mining Use Permit. The discussion below is also alternatives previously evaluated for the approved project in the Aspen VIII & IX Mining Use Permit Project Final Environmental Impact Report (2016 Final EIR) (State Clearinghouse No. 2015022062).

CONSIDERATIONS FOR SELECTION OF ALTERNATIVES

ATTAINMENT OF PROJECT OBJECTIVES

Consistent with CEQA requirements, primary consideration was given to alternatives that could reduce environmental impacts, while still meeting most of the project's objectives. As stated in Chapter 2, "Project Description," the project objectives of the proposed project include the following:

1. To mine an alluvial sand and gravel deposit, specifically resources that can be used to create Portland Cement Concrete (PCC).

2. To extract available alluvial aggregate resources located near the urban core prior to encroachment by future urban land uses.

3. To continue to supply construction materials to the Sacramento County market utilizing Teichert's existing Perkins processing facility and associated infrastructure.

4. To locate the mining operation in close proximity to Teichert's Perkins processing facility such that mined aggregate can continue to be transported to the facility via an electric conveyor belt system, the use of which minimizes the economic and environmental (i.e., air quality, traffic, noise) impacts associated with hauling material from the mining site to the processing facility.

5. To expand existing mining operations before seeking to permit entirely new sites.

6. To utilize lands for resource extraction that are already zoned to allow surface mining.

7. To mine in an area that would contain a buffer between mining operations and any use potentially incompatible with mining including, but not limited to, residential neighborhoods, schools, or offices.

Environmental Impacts of the Proposed Project

Chapters 4 through 18 of this SEIR address the environmental impacts of implementation of the proposed project that identifies whether the project would result in a change in the impact conclusions of the 2016 Final EIR or create new impact not previously evaluated in the 2016 Final EIR. Potentially feasible alternatives were developed with consideration of avoiding or lessening the significant, and potentially significant, adverse impacts of the proposed project, as identified in this SEIR and summarized below. The proposed project would result in significant impacts, some of which could be reduced to a less-than-significant level, in the following resources areas:

- aesthetics (no change in 2016 Final EIR impact conclusions);
- agricultural resources (increased severity of agricultural impacts from 2016 Final EIR impact conclusions);
- air quality (no change in 2016 Final EIR impact conclusions);
- biological resources (new impact associated with consistency with the South Sacramento Habitat Conservation Plan);
- cultural resources (no change in 2016 Final EIR impact conclusions);
- geology, soils, and mineral resources (no change in 2016 Final EIR impact conclusions);
- hazards and hazardous materials (no change in 2016 Final EIR impact conclusions);
- hydrology, drainage, and water quality (no change in 2016 Final EIR impact conclusions);

- noise (no change in 2016 Final EIR impact conclusions); and
- tribal cultural resources (new impact).

Range of Alternatives

The purpose of the alternatives chapter is to identify alternative project designs that would mitigate, lessen, or avoid the significant effects of the proposed project. To foster meaningful public discussion and informed decision-making, a range of reasonable alternatives to the proposed project is provided. An EIR need not evaluate an alternative that is considered speculative, theoretical, or unreasonable (State CEQA Guidelines Section 15126.6(f)(3)). Not every potentially feasible alternative need be considered; rather, the relevant test is whether a "reasonable range" of feasible alternatives is considered for that particular project (State CEQA Guidelines Section 15126.6(a)). This range includes the "No Project" alternative, the purpose of which is to allow the hearing body to compare the impacts of approving the proposed project to the impacts of not approving the proposed project.

For the purposes of this SEIR, the "No Project" alternative analysis is the same as the baseline conditions used throughout the SEIR to determine whether the proposed project's environmental impacts may be significant. Specifically, the "No Project" alternative describes what would happen if the existing Aspen VIII and IX Mining Use Permit and Reclamation Plan was not amended to expand surface mining and reclamation activities by 245.64 acres onto the adjacent project site (i.e., Aspen VIII and IX Expansion Areas). Existing surface mining and reclamation activities allowed under the existing Aspen VIII and IX Mining Use Permit and Reclamation Plan would continue on the approved project site but would not be permitted on the proposed expansion areas. As such, the proposed expansion areas though would remain undeveloped, grassland areas.

A range of alternatives that could reduce or eliminate some of the proposed project's significant impacts were considered for the analysis within this chapter. This included the evaluation of alternatives considered in the 2016 Final EIR.

The State CEQA Guidelines state that the EIR must identify the environmentally superior alternative, which is discussed at the end of this chapter under "Environmentally Superior Alternative."

Evaluation of Previous Alternatives Considered in the 2016 Final EIR as Related to the Proposed Project

The following alternatives were analyzed in the 2016 Final EIR and are analyzed for the proposed project. As further described below, the Alternative Footprint, Reduced Mining Depth, and Alternative Location Alternatives were considered in the 2016 Final EIR but were not further evaluated as part of the consideration of the approved project. The Reduced Production Rate Alternative was evaluated in detail within the 2016 Final EIR.

The following alternatives were considered in the 2016 Final EIR.

Alternative Footprint

2016 Final EIR Alternative Determination

The use of a modified mining footprint (reduced area or modified shape) is sometimes considered for mining projects as a method of reducing the area affected by or avoiding important environmental resources at the surface such as cultural sites, endangered species habitats or certain aesthetic impacts. The 2016 Final EIR determined this alternative would not avoid or eliminate any of the significant impacts associated with the approved project, specifically those associated with biological resources, cultural resources, aesthetics, or air quality. Therefore, the alternative footprint alternative was considered but rejected for the approved project and was not further analyzed within the 2016 Final EIR.

Proposed Project Alternative Analysis

Similar to the findings of the 2016 Final EIR, a modified mining footprint alternative for the proposed project would not avoid or eliminate any of the significant impacts identified in the SEIR related to aesthetics, air quality, biological resources, cultural resources, geology and soils, noise, and tribal cultural resources associated with implementation of the proposed project because this alternative would still have potential for impacting these resources from ground disturbance and would not alter existing surface mining operations related air quality and noise impacts.

Since certification of the 2016 Final EIR, CEQA case law (*King and Gardiner Farms, LLC v. County of Kern* (2020) 45 Cal.App.5th 814) established that agricultural conservation easements cannot mitigate the direct impacts of farmland conversion because they do not create new farmland to replace that which is lost. In addition, the County also recognizes that prime soils are a finite resource and thus, when an area is permanently taken out of agricultural production, there is a net loss of agricultural lands as new agricultural soils would not be created. For these reasons, implementation of the proposed project would result in a significant and unavoidable impact to agricultural resources in respect to conversion of farmland, which is a more severe impact than the less-than-significant impacts of the approved project.

While modification of the proposed project's surface mining footprint could avoid the loss of farmland areas considered important by the County, conversion of farmland on the project site has already been accounted for in the impact analysis for the implementation of the West Jackson Highway Master Plan (WJHMP) as identified in the WJHMP Final EIR (County of Sacramento 2025). As such, a significant and unavoidable impact related to conversion of farmland would still occur on the project site under the WJHMP under this alternative. Therefore, the alternative footprint alternative would not provide avoid any significant environmental impacts identified for the proposed project and is not evaluated further within this SEIR.

Reduced Mining Depth Alternative

2016 Final EIR Alternative Determination

As identified in the 2016 Final EIR, a reduced mining depth alternative is sometimes considered for mining projects as a method of lessening impacts to aesthetic or hydrologic impacts. The 2016 Final EIR determined that implementation of the approved project would not result in significant hydrologic impacts related to mine depth as the approved project is not expected to encounter ground water; therefore, this alternative would not reduce impacts related to hydrology. While this alternative may be perceived as resulting in a reduced aesthetic impact, due to the overall, irreversible change to the landform that would still occur under this alternative, aesthetic impacts would remain significant and unavoidable with implementation of this alternative, similar to the approved project. Additionally, this alternative would leave existing aggregate resources in place, which would not be utilized, and could result in the expansion of the surface mining footprint in order to extract sufficient aggregate materials to compensate for the lack of depth, which could result in new or more severe impacts than identified for the approved project. Lastly, without expanding the surface mining footprint but reducing the depth, this alternative would not fully achieve the approved project objectives. Therefore, the reduced mining depth alternative was considered but rejected for the approved project and was not further analyzed within the 2016 Final EIR.

Proposed Project Alternative Analysis

Similar to the findings of the 2016 Final EIR, this alternative would not lessen or eliminate any of the identified significant impacts of the proposed project related to aesthetics, agricultural resources, air quality, biological resources, cultural resources, geology and soils, noise, and tribal cultural resources because this alternative would result in an expanded footprint creating additional ground disturbance related impacts and would not alter existing quarry operations related air quality and noise impacts. Therefore, this alternative would not avoid any significant environmental impacts identified for the proposed project and is not evaluated further within this SEIR.

Alternative Location

2016 Final EIR Alternative Determination

The 2016 Final EIR identified that many factors are considered in the selection of an aggregate mine, including quality and quantity of the resource, its location and distance to the market consumption area, roadway accessibility, availability of the land, a willing lessor or seller, mining economics (such as the amount of overburden that must be removed), and other factors. In fact, State CEQA Guidelines (Section 15126.6[f][2[B]) recognize mining projects to be an example of why evaluation of an alternative location may not be feasible, since location of the mineral resource is fixed to the site.

The 2016 EIR determined if the mining site were changed to another location under this alternative, the significant and unavoidable impacts associated with the approved project would remain the same or potentially increase. This is because wherever an open-pit alluvial aggregate mine is located, it will result in a large hole in the ground which has been determined to have a significant impact due to the irreversible change to the landform. Similarly, regardless of location, heavy equipment is needed for surface mining, which would result in a significant impact. Furthermore, a mine located farther away from either the processing plant or market area would result in increased air quality (and traffic) impacts due to aggregate hauling. The approved project site is near the market area and allows for the extension of the project applicant's existing electric conveyor belt system to send mined aggregate material to the existing permitted processing plant (i.e., Perkins Plant). Thus, the 2016 Final EIR determined that this alternative would not reduce any significant impacts identified for the approved project and could even result in some additional impacts beyond the approved project. Therefore, the alternative location alternative was considered but rejected for the approved project and was not further analyzed within the 2016 Final EIR.

Proposed Project Alternative Analysis

As described in Chapter 2, "Project Description," the overall intent of the proposed project is to continue to supply aggregates to the existing Perkins Plant, which is centrally located to many construction operations throughout Sacramento County. In addition, due to its proximity to the Perkins Plant, aggregate material from the project site would utilize existing aggregate-related infrastructure, such as the miles-long conveyor system and pre-wash facility, which would help to retain existing jobs, provide stability in the marketplace, and reduce costs. As the proposed project would be an extension of the existing Aspen VIII and IX mining areas and operation, the proposed project would be able to benefit from Teichert's previous improvements to flood protection weirs, conveyor under crossings, parking areas, and detention areas. This alternative would result in new environmental impacts from the creation of a new quarry site (land disturbance and operations) and associated supporting infrastructure that are avoided by the proposed project. This alternative would also not meet the basic project objectives of expanding existing mining operations near Teichert's Perkins Plant (project objectives 3, 4, and 5). Therefore, this alternative would not avoid any significant environmental impacts identified for the proposed project and is not evaluated further within this SEIR.

Reduced Production Rate Alternative

2016 Final EIR Alternative Determination

In the 2016 Final EIR, the Reduced Production Rate Alternative was evaluated in detail for the approved project in addition to the No Project Alternative. This alternative was designed to address the approved project's significant air quality oxides of nitrogen (NO_x) impacts by reducing the number of pieces of heavy equipment operating at any one time. Reducing heavy equipment use under this alternative was envisioned to be accomplished through either a specific restriction on the number of pieces of equipment or by prohibiting the operator from conducting multiple operations at the same time,

such as overburden hauling combined with aggregate extraction. The 2016 Final EIR determined that this alternative would have reductions in impacts related to air quality and noise locally. However, when considering the inherent cumulative nature of air quality analysis within the air basin, this alternative's impacts on air quality would be similar to those identified for the approved project. In addition, this alternative could cause increased surface mining operations elsewhere in the county or the import of aggregate for outside the county, which would result in additional air quality, noise, and traffic impacts. For these reasons, the 2016 Final EIR determined that while there could be slight reductions in some impacts compared to the approved project, this alternative would result in similar impacts as the approved project but would not fully achieve the approved project objectives. Furthermore, the 2016 Final EIR concluded that this alternative could result in greater impacts if other mines built additional processing capacity or aggregate was imported from other markets to account for the reduced production rate under this alternative.

Proposed Project Alternative Analysis

While the proposed project's contribution to air quality impacts would not be substantial, overall air quality (NO_x) impact would remain significant and unavoidable as identified in the 2016 Final EIR due to the ongoing operation of the approved project. However, since the Reduced Production Rate Alternative was designed to address the approved project's significant air quality (NO_x) impacts, this alternative would not eliminate a significant impact for the proposed project as air quality (NO_x) impacts are less-than-significant under the proposed project without mitigation. Furthermore, this alternative would put an unnecessary operational restriction on the proposed project for no environmental purpose. For these reasons, the Reduced Production Rate Alternative was considered but rejected for the proposed project and is not evaluated further within this SEIR.

Alternatives Selected for Detailed Analysis

Due to the nature of the proposed project being an expansion of the approved project, the only feasible alternative that is considered for further evaluation within this SEIR is the No Project Alternative (Alternative 1). Further details on the No Project Alternative and an evaluation of how it compares to the proposed project are provided below.

Alternative 1: No Project Alternative

Section 15126.6(e) of the State CEQA Guidelines requires that an EIR evaluate and analyze the environmental impacts of the No Project Alternative to examine and compare the potential environmental consequences associated with not approving the project.

For the purposes of this analysis, the No Project Alternative assumes that the proposed project is not approved. Under this alternative, the existing Aspen VIII and IX Mining Use Permit and Reclamation Plan for the approved project would not be amended to

expand surface mining and reclamation activities by 245.64 acres and no surface mining or reclamation activities would occur in the proposed Aspen VIII and IX Expansion Areas adjacent to the approved mine areas (project site). The existing electrical conveyor belt system would not be extended from the approved project site to the project site as no aggregate material would be mined from the project site that would need to be transported to the existing Perkins Plant. None of the site improvements that would occur under the proposed project, including the new access point along Knox Road or the culvert and well improvements, would occur under this alternative. Final reclamation of the project site would not occur, and no retention basins would be created. As such, the project site would remain undeveloped grassland areas under this alternative.

This alternative would not result in the expansion of the surface mining operation currently occurring on the approved project site and would not meet any of the proposed project objectives.

Aesthetics

Significant aesthetic impacts associated with visual character and lighting were identified in the 2016 Final EIR for the No Project Alternative as well as for the proposed project in this SEIR. While the proposed project would not result in a substantial increase in severity of this impact, it would still increase the extent of this change in the visual character of the area that is avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impact than the proposed project.

Agricultural Resources

The proposed project would result in the loss of 69.84 acres of Farmland of Statewide Importance and Farmland of Local Importance that would not occur under the No Project Alternative. This impact was identified as significant and unavoidable for the proposed project. Therefore, the No Project Alternative would result in less impact than the proposed project and would avoid this significant and unavoidable impact.

Air Quality

The 2016 Final EIR determined air quality impacts to be significant and unavoidable for the No Project Alternative while air quality impacts were determined to be significant but mitigable for the proposed project in this SEIR. While the proposed project would reduce the severity of this impact, it would create additional emissions from the proposed expansion areas that are avoided under the No Project Alternative. Therefore, the No Project Alternative would result in similar impacts to the proposed project.

Airport Compatibility

The 2016 Final EIR determined that the No Project Alternative would not create any conflicts or safety issues with the Mather Airport. The SEIR also determined that the proposed project would also not create any conflicts or safety issues with the Mather Airport. Therefore, No Project Alternative would have similar impacts as the proposed project regarding compatibility with Mather Airport.

Biological Resources

Significant but mitigable biological resource impacts were identified in the 2016 Final EIR for the No Project Alternative as well as for the proposed project in this SEIR. While the proposed project would not result in a substantial increase in severity of biological resource impacts, it would still increase land area disturbed that contain natural resources by surface mining activities that are avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impacts than the proposed project.

Cultural Resources

Significant but mitigable cultural resource impacts were identified in the 2016 Final EIR for the No Project Alternative as well as for the proposed project in this SEIR. While the proposed project would not result in a substantial increase in severity of cultural resource impacts, it would still increase land area disturbed that could contain cultural resources by surface mining activities that are avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impacts than the proposed project.

Energy

Less than significant impacts associated with energy use from construction and operation were identified in the 2016 Final EIR for the No Project Alternative as well as for the proposed project in this SEIR. While the proposed project would not result in a substantial increase in severity of this impact, it would involve additional energy use from the expansion area that is avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impacts than the proposed project.

Geology, Soils, and Mineral Resources

Significant but mitigable impacts associated with soil stability and paleontological resources were identified in the 2016 Final EIR for the No Project Alternative as well as for the proposed project in this SEIR. While the proposed project would not result in a substantial increase in severity of these impacts, it would still increase land area disturbed that could expand soil and paleontological resource impacts by surface mining activities that are avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impacts than the proposed project.

Greenhouse Gas Emissions

Less than significant impacts associated with greenhouse gas (GHG) emissions from construction and operation were identified in the 2016 Final EIR for the No Project Alternative as well as for the proposed project in this SEIR. While the proposed project would not result in a substantial increase in severity of this impact, it would involve additional GHG emissions from the expansion area that are avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impacts than the proposed project.

Hazards and Hazardous Materials

The 2016 Final EIR determined that the No Project Alternative could result in accidental release of hazardous materials. The SEIR also determined that the proposed project could also result in accidental release of hazardous materials. The extent of surface mining operations would be similar for the proposed project and the No Project Alternative. Therefore, No Project Alternative would have similar impacts to the proposed project regarding hazards.

Hydrology, Drainage, and Water Quality

Less than significant impacts associated with hydrology, water quality, and groundwater from construction and operation were identified in the 2016 Final EIR for the No Project Alternative as well as for the proposed project in this SEIR. While the proposed project would not result in a substantial increase in severity of this impact, it would involve ground disturbance from the expansion area and associated need to further address water quality issues through control best management practices that are avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impacts than the proposed project.

Noise

The 2016 Final EIR determined that the No Project Alternative significant noise impacts from surface mining operations to sensitive receptors. The SEIR also determined that the proposed project would result in noise impacts to sensitive receptors from surface mining activities. As identified in Chapter 15, “Noise,” the proposed project would result in increases in current noise levels that factor existing surface mining operations. Therefore, No Project Alternative would result in less impacts than the proposed project.

Public Services

The 2016 Final EIR determined that the No Project Alternative would not create any significant public services impacts. The SEIR also determined that the proposed project would also not significant public services impacts. The extent of surface mining operations would be similar for the proposed project and the No Project Alternative. Therefore, No Project Alternative would have similar impacts to the proposed project regarding public services.

Transportation

The 2016 Final EIR determined that the No Project Alternative would not create any significant transportation impacts. The SEIR also determined that the proposed project would also not result in significant transportation impacts. The extent of surface mining operations would be similar for the proposed project and the No Project Alternative. Therefore, No Project Alternative would have similar impacts to the proposed project regarding transportation.

TRIBAL CULTURAL RESOURCES

Because the 2016 Final EIR was certified prior to tribal cultural resources being included as a CEQA issue, the 2016 Final EIR did not evaluate the No Project Alternative's potential to result in impacts related to tribal cultural resources. However, the 2016 Final EIR did evaluate the potential for the approved project to result in substantial adverse physical impacts to historical and archaeological resources and buried human remains in Chapter 15, "Cultural Resources," of the 2016 Final EIR. These impacts were determined to be less than significant with implementation of mitigation. While the proposed project would result in less than significant impacts to tribal cultural resources with mitigation, it would still increase land area disturbed that could contain tribal cultural resources by surface mining activities that are avoided under the No Project Alternative. Therefore, the No Project Alternative would result in less impacts than the proposed project.

CONSISTENCY WITH PROPOSED PROJECT OBJECTIVES

NO PROJECT ALTERNATIVE

The No Project Alternative would not achieve any of the project objectives.

ENVIRONMENTALLY SUPERIOR ALTERNATIVE

Table 3-1 summarizes the significance conclusions reached for impacts on the resources evaluated in this SEIR for the proposed project compared to the No Project Alternative evaluated within this chapter. As indicated above, the No Project Alternative would reduce or result in similar impacts on all resource areas. As a result, this alternative would be environmentally superior. However, State CEQA Guidelines Section 15126.6(e)(2) requires that if an EIR determines that the No Project Alternative is environmentally superior to the project, the EIR must identify an environmentally superior alternative from among the other alternatives considered.

Because there were no other feasible alternatives to the proposed project other than the No Project Alternative, the proposed project is considered the environmentally superior alternative. The proposed project results in the fewest environmental impacts, some of which were reduced compared to the approved project, while still fully achieving the project objectives of the project applicant.

Table 3-1: Summary of Environmental Effects of the Alternatives Relative to the Proposed Project

Environmental Topic	Proposed Project	Alternative 1: No Project
Aesthetics	SU	Less
Agricultural Resources	SU	Less
Air Quality	SU	Similar
Airport Compatibility	LTS	Similar
Biological Resources	LTSM	Less
Cultural Resources	LTSM	Less
Energy	LTS	Similar
Geology, Soils, and Mineral Resources	LTS	Less
GHG Emissions	LTS	Less
Hazards and Hazardous Materials	LTSM	Similar
Hydrology, Drainage, and Water Quality	LTS	Less
Noise	LTSM	Less
Public Services	LTS	Similar
Transportation	LTS	Similar
Tribal Cultural Resources	LTSM	Less

Notes: LTS = less than significant; LTSM = less than significant with mitigation; SU = significant and unavoidable.

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4 AESTHETICS

INTRODUCTION

This chapter evaluates the potential aesthetics and visual quality impacts resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). This chapter also describes the existing aesthetic and visual resources of the project site and area; discusses applicable state and local regulations and policies related to aesthetics and visual resources; and assesses the potential for implementation of the proposed project to adversely affect aesthetic and scenic resources.

Comments received related to aesthetics in response to the Notice of Preparation (NOP) included requests to assess the potential for visual conflicts between the proposed project and future land uses proposed under the West Jackson Highway Master Plan. For issues related to visual conflicts between the proposed project and other cumulative projects, refer to Chapter 19, "Summary of Impacts and Other CEQA Considerations," of this SEIR. The NOP and comments are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, "Project Description", the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

VISUAL CHARACTER OF REGION

Sacramento County lies near the center of California's Central Valley, at the southern end of the Sacramento Valley. Open space views within the valley region are generally characterized by broad sweeping panoramas of flat agricultural lands and open space dotted with trees, divided by numerous rivers and creeks. To the east, the Sierra Nevada and their foothills are visible in the background, and the Coast Range provides a backdrop on the western horizon.

VISUAL CHARACTER OF PROJECT SITE

The visual character of the project site and surrounding area is typical of unincorporated Sacramento County: flat open fields intermixed with limited residential and commercial

development. The area to the north and west of the project site consists mainly of other mining operations and undeveloped agricultural land while the area to the south and east of the project site is generally comprised of agricultural land, scattered single-family homes, and industrial uses.

Existing onsite habitat includes annual grasslands and irrigated farmland, scattered wetlands, and other waters. The project site is primarily used for cattle grazing but also includes dirt roads and high-voltage power transmission lines.

Some views of the project site from Jackson Highway and Elder Creek Road are typically screened by fencing and landscaping consisting of trees and shrubs, which have been established as a result of adopted mitigation for the approved project in the 2016 Final EIR (refer to Representative Photos 3 and 4 below) as well as other nearby mining operations. Due to the high amount of mining activity in the area, screened views associated with mining activity are common along long stretches of these roadways.

In surrounding areas without mining operations, the visual character is rural, consisting of agriculture uses and grasslands used as grazing land. In addition, rural houses on 1- to 10-acre lots are interspersed among the mining sites and grasslands along Jackson Highway and Elder Creek Road. Commercial uses are also located sporadically along Elder Creek Road, which provides occasional views of storage yards with sand and gravel or rental equipment. Large overhead transmission towers surrounding the project site are located along the major roadways.

Scenic Views and Resources

Scenic vistas are elements of the broader viewshed such as mountain ranges, valleys, and ridgelines that possess visual and aesthetic qualities of high value to the community. They are usually middle ground or background elements of a viewshed that can be seen from a range of viewpoints, often along a roadway or other corridor. Distant views of the Sierra Nevada, the Coast Range, Mount Diablo, and the Sutter Buttes can be visible under clear conditions and are also considered part of the County's visual heritage (Sacramento County 2010). The Sierra Nevada mountain range, which is visible from the project site, is an important scenic vista in the area. However, no designated scenic vistas are located within the project site.

The County General Plan designates scenic corridors within the county. These corridors include River Road, Isleton Road, Garden Highway, Scott Road (from White Rock Road south to Latrobe Road), Latrobe Road, Michigan Bar Road, and Twin Cities Road (from State Route 160 east to Highway 99). SR 160/River Road from the Contra Costa County line to the southern city limit of Sacramento is a state designated scenic highway (Sacramento County 2010). There are no county-designated scenic corridors within or adjacent to the project site.

The project site is generally flat, where the topography generally slopes gently downward from east to west. The project site does not contain scenic resources such as trees, rock outcroppings, and historic buildings that act as the focal point of a viewshed.

Light and Glare Sources

There are no existing light or glare sources on the project site because it is currently undeveloped, vacant grassland. Adjacent light and glare sources are located on the approved project site associated with the operation of the approved project as well as with nearby rural residential and commercial uses. These rural land uses typically do not generate substantial amounts of glare, lighting, or illumination, and the ambient nighttime lighting and illumination levels are very low. Mobile light sources are generated by vehicles traveling on roadways.

Regulatory Setting

Federal

There are no federal regulations that pertain to aesthetics for this project.

State

California Scenic Highway Program

California's Scenic Highway Program was created by the California Legislature in 1963 and is managed by the California Department of Transportation. The goal of this program is to preserve and protect scenic highway corridors from changes that would affect the aesthetic value of the land adjacent to highways. A highway may be eligible or officially designated "scenic" depending on how much of the natural landscape travelers can see, the scenic quality of the landscape, and the extent to which development intrudes on travelers' enjoyment of the view. There are no designated scenic highways in the immediate vicinity of the project site (Caltrans 2024).

Nighttime Sky – Title 24 Outdoor Lighting Standards

The California legislature passed a bill in 2001 requiring the California Energy Commission to adopt energy efficiency standards for outdoor lighting for both the public and private sectors. In addition to improved energy efficiency standards, Title 24 standards regulate lighting characteristics such as maximum power and brightness, shielding, and sensor controls to turn lighting on and off. Different lighting standards are set by classifying areas by lighting zone. The classification is based on population figures of the 2010 Census. Areas can be designated as one of three lighting zones (LZs): LZ1 (dark), LZ2 (rural), or LZ3 (urban). Lighting requirements for dark and rural areas are stricter to protect the areas from new sources of light pollution and light trespass. Sacramento County Code designates the project site as LZ2 in conformance with Title 24 zoning rules.

LOCAL

SACRAMENTO COUNTY 2030 GENERAL PLAN

The following 2030 General Plan policies are applicable to the project (Sacramento County 2022):

- **Policy LU-18.** Encourage development that complements the aesthetic style and character of existing development nearby to help build a cohesive identity for the area.
- **Policy LU-19.** Incompatible land uses should be buffered from one another by methods that retain community character, and do not consume large land areas or create pedestrian barriers.
- **Policy LU-31.** Strive to achieve a natural nighttime environment and an uncompromised public view of the night sky by reducing light pollution.

COMMUNITY PLANS

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the project because the project site is located within the plan area.

VINEYARD COMMUNITY PLAN

The Vineyard Community Plan does not contain policies related to aesthetics.

SACRAMENTO COUNTY ZONING CODE

Title 1 (General Provisions) of the Zoning Code contains standards requiring that illumination of buildings, landscaping, signs, and parking and loading areas be shielded and directed so that no light trespasses onto adjacent properties. Title III (Use Regulations and Development Standards) requires that lighting shall be directed away from residential areas and public streets so that glare is not produced that could adversely affect the general safety of vehicular traffic and the privacy and well-being of residents.

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

Based on Appendix G of the State CEQA Guidelines, impacts to aesthetics would be significant if implementation of the proposed project would:

- have a substantial adverse effect on a scenic vista;
- substantially damage scenic resources, including but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway;
- substantially degrade the existing visual character or quality of public views of the plan area and its surroundings; or

- create a new substantial source of light and glare, which would adversely affect day or nighttime views in the area.

Issues Not Discussed Further

Substantial Adverse Effects on Scenic Vistas

The 2016 Final EIR noted that the approved project site does not occur in the vicinity of any scenic vistas and, therefore, implementation of the approved project would not adversely affect scenic vistas (Impact Evaluation AE-3). The 2016 Final EIR determined that this issue did not warrant detailed analysis as no impact would occur.

Because the proposed project would occur immediately adjacent to the approved project, there is no change in the potential to adversely affect scenic vistas compared to the previously approved project. Therefore, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

Substantial Adverse Effects on Scenic Resources within a State Scenic Highway

The 2016 Final EIR noted that the approved project site does not occur within the vicinity of a designated state scenic highway or corridor and, therefore, implementation of the approved project would not adversely affect scenic resources within a state scenic highway or corridor (Impact Evaluation AE-3). The 2016 Final EIR determined that this issue did not warrant detailed analysis as no impact would occur.

As discussed above under “Environmental Setting,” the project site is not visible from a designated state scenic highway or county scenic corridor (Caltrans 2024). Therefore, the proposed project would not damage scenic resources within view of a state scenic highway or locally designated roadways. As such, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

Methodology

The US Department of Transportation, Federal Highway Administration (FHWA) developed a manual to aid in the preparation of visual assessments for highway projects. Although the proposed project does not propose a highway, the key concepts established by FHWA apply to all visual settings and were used to help evaluate the visual character and quality of the region and the project site. Many of these same key concepts are used to evaluate aesthetics in many contexts, including artistic compositions, architecture, and residential landscaping design. For the purposes of landscapes, the concepts of vividness, intactness, and unity define visual quality. Definitions of key terms and the project impacts to visual quality and character are described below.

- *Vividness* is a measure of the visual impression that remains in the memory of the viewer (e.g. Niagara Falls). Vivid visual experiences are striking and distinctive.
- *Intactness* is the visual integrity of the natural and built landscape. This represents the degree to which past or present actions within the viewshed have

noticeably and unfavorably changed the view by introducing features which are incompatible or incongruent with the overall character of the viewshed.

- *Unity* refers to the pattern formed by connected landscape elements. A high degree of unity creates a harmonious visual pattern. This differs from “congruence” in that “unity” describes whether or not the combined visual elements within a viewshed have a noticeable pattern and cohesive composition, while “congruence” focuses on comparing individual elements. For instance, a cellular tower and a large industrial building would be consistent in character (congruent), but have very different shapes, massing, and overall appearance (not unified).

Visual character is derived from visual pattern elements and their dominance, scale (apparent size relationship), diversity, and/or continuity (uninterrupted flow of patterns). Visual pattern elements include form (visual mass or shape), line (silhouette), color, and texture (apparent coarseness). Although visual character and quality can be described objectively, there is no established official process that will identify all areas of high visual quality. Therefore, visual quality is often defined in part by viewer sensitivity. Viewer sensitivity is defined using the following criteria:

- visibility of resources in the landscape,
- proximity of viewers to the visual resource,
- elevation of viewers relative to the visual resource,
- frequency and duration of views,
- number of viewers, and
- types and expectations of individuals and viewer groups.

Viewer Groups

The visual experience is a combination of visual resources and viewer response. Different viewer groups respond differently to visual environments. The opinions or preferences of different groups depend on viewer activity and awareness, local values, and the cultural significance of the visual resources. Viewer activity affects the viewers’ ability to perceive the landscape. Depending on the activity, a viewer may be attracted or distracted from the landscape. For example, a person reclining in a backyard (“Resident”) or sitting on a bench will be encouraged to view the landscape, whereas a person driving along a road (“Motorist”) on an errand will be distracted from the landscape and concentrate more on the road itself.

Viewer awareness also affects the viewer’s receptivity to the landscape. Viewer awareness is affected by position, preconceptions, and recent visual experience. If viewer sensitivity is very high, any visible change in the area may be perceived as a negative effect. Typically, residents and recreational viewer groups are especially concerned about the appearance of their visual environment because their viewing experience is more than merely transitory. Perceived adverse visual impacts associated with a project typically occur not because of the quality of the project in question, but rather because of the substantial change in the nature of the view. Many viewers value

undisturbed open space views much more highly than views of urbanized or developed property, however well-designed and visually balanced the development may be.

The following groups are likely to have views of the project site: motorists on local roadways and residents adjacent to the project site. The visual character and availability of site views are similar from all viewing locations.

REPRESENTATIVE VIEWPOINTS

For the purpose of the following analysis, six viewpoints were identified that represent predominate public views of the project site. Descriptions of views from these viewpoints, as well as an assessment of visual quality and character of the views, are provided below. Viewpoint locations and photographs from each viewpoint are depicted in Figure 4-1 and Figures 4-2a through 4-2c, respectively.

VIEWPOINT 1: JACKSON ROAD, LOOKING SOUTHEAST

Viewpoint 1 (Figure 4-2a) is a representative view of the proposed Aspen VIII Expansion Area. As demonstrated in the view, industrial elements, such as transmission lines and associated structures, heavy machinery, and mining equipment, including a chain-link fence and signage heavily dominate the view from this angle under existing conditions.

VIEWPOINT 2: JACKSON ROAD, LOOKING SOUTHWEST

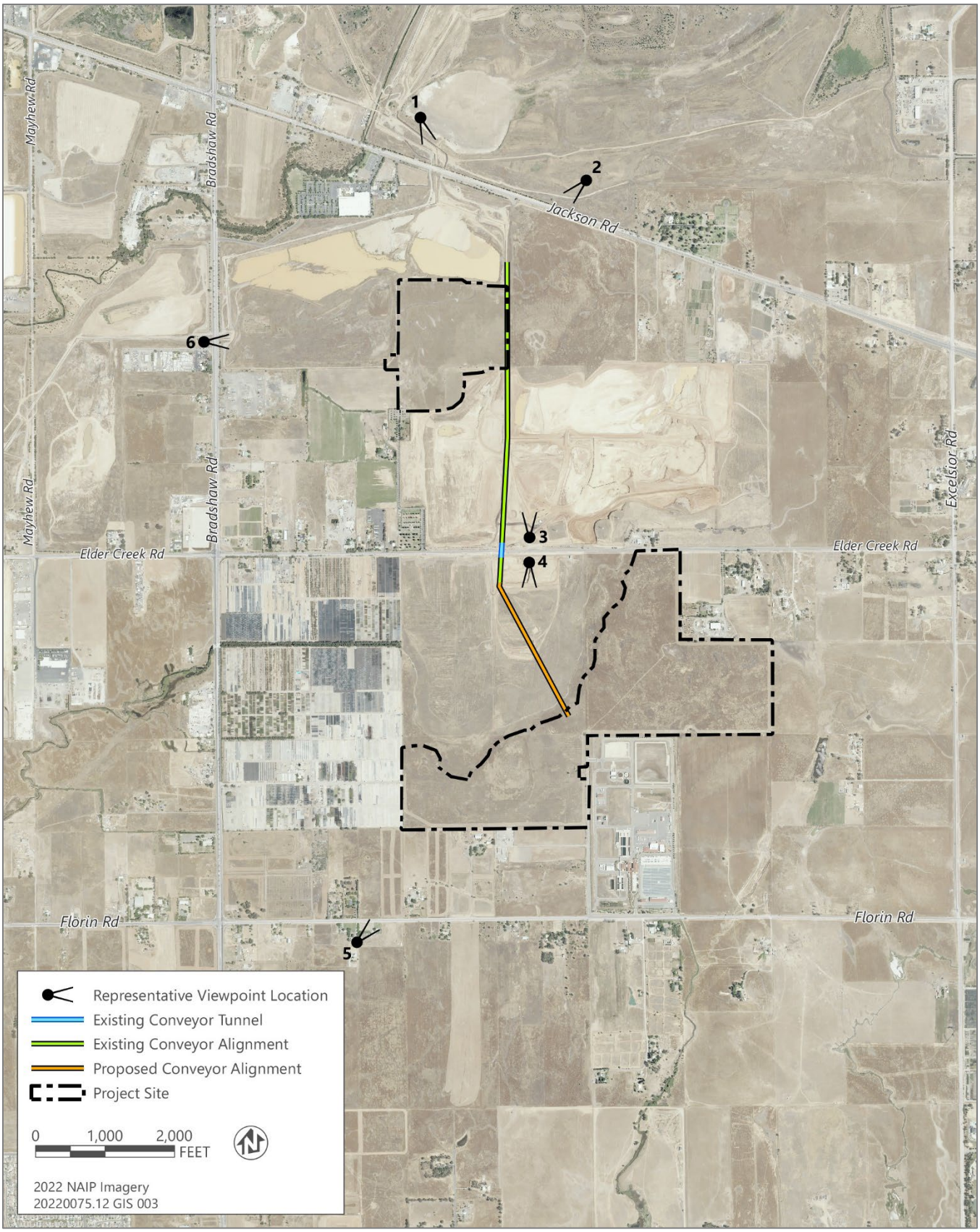
Viewpoint 2 (Figure 4-2a) represents the view of the proposed Aspen VIII Expansion Area. The visual character of this viewpoint is predominantly undeveloped and rural. The view from Jackson Road is average, containing common and typical landscapes for this area. It lacks significant natural or cultural features of interest. Levels of natural harmony, cultural order, and project coherence are average. There is an overall natural composition to the landscape with the blend of colors and rugged line of mature trees in the background.

VIEWPOINT 3: ELDER CREEK ROAD, LOOKING NORTH

Viewpoint 3 (Figure 4-2b) represents the view of the southeast portion of the proposed Aspen VIII Expansion Area. Similar to Viewpoint 1, the visual character of this viewpoint is predominantly industrial. As demonstrated in the view, industrial elements, such as a high voltage transmission line and associated structures, as well as a chain-link fence and signage heavily dominate the view from this angle under existing conditions.

VIEWPOINT 4: ELDER CREEK ROAD, LOOKING SOUTH

Viewpoint 4 (Figure 4-2b) looks towards the proposed Aspen IX Expansion Area from a rural public road located behind the existing Aspen IX mining site. In the center of the view, existing service lines can be seen traversing across the site, silhouetted against the sky above rudimental fencing and grasses. The foreground somewhat lacks significant natural or cultural features of interest.



Source: Adapted by Ascent in 2024.

Figure 4-1: Representative Viewpoint Locations



Source: Photograph taken by Ascent in 2024.

Viewpoint 1 – Jackson Road, Looking Southeast



Source: Photograph taken by Ascent in 2024.

Viewpoint 2 – Jackson Road, Looking Southwest

Figure 4-2a: Representative Site Photographs



Source: Photograph taken by Ascent in 2024.

Viewpoint 3 – Elder Creek Road, Looking North



Source: Photograph taken by Ascent in 2024.

Viewpoint 4 – Elder Creek Road, Looking South

Figure 4-2b: Representative Site Photographs



Source: Photograph taken by Ascent in 2024.

Viewpoint 5 – Florin Road, West of Residence



Source: Photograph taken by Ascent in 2024.

Viewpoint 6 – Bradshaw Road, Looking East

Figure 4-2c: Representative Site Photographs

VIEWPOINT 5: FLORIN ROAD, WEST OF RESIDENCE

Viewpoint 5 (Figure 4-2c) represents the view of the southwest portion of the proposed Aspen IX Expansion Area directly west of an existing residence on Florin Road. The visual character of this viewpoint is predominantly undeveloped and rural. The view from Florin Road is average, containing common and typical landscapes for this area. It lacks significant natural or cultural features of interest. Levels of natural harmony, cultural order, and project coherence are average. There is an overall natural composition to the landscape. In the center of the view, an existing rod iron fence can be seen traversing across the site, silhouetted against the sky above tall rudimental grasses.

VIEWPOINT 6: BRADSHAW ROAD, LOOKING EAST

Viewpoint 6 (Figure 4-2c) is a representative view of the western portion of the proposed Aspen VIII Expansion Area. As demonstrated in the view, industrial elements, such as transmission lines and associated structures, mining equipment, and a chain-link fence heavily dominate the view from this angle under existing conditions. It lacks significant natural or cultural features of interest.

IMPACTS AND ANALYSIS

IMPACT AE-1: DEGRADATION OF EXISTING CHARACTER OR QUALITY OF PUBLIC VIEWS OF THE PROJECT SITE AND ITS SURROUNDINGS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would result in high vividness, low intactness, and moderate unity levels across the approved project site. As such, impacts related to adverse changes to visual character would be considered significant because implementation of the approved project would irreversibly change the landform of the project area in that the Aspen VIII and IX mining pits would be approximately 355 acres in size and would be excavated down to 25 to 50 feet below grade (Impact Evaluation AE-1). The 2016 Final EIR included Mitigation Measure AE-1 to require that direct views of the approved project site from the north, east, and south be screened from public view through the use of landscaping and direct views of the approved project site from the west be screened using additional berms and landscaping or an 8-foot-tall solid fence. The 2016 Final EIR determined that impacts would be significant and unavoidable, even with implementation of Mitigation Measure AE-1, because screening would not totally hide or mitigate the visual impacts caused by the approved project.

At the time of preparation of this SEIR, the requirements of Mitigation Measure AE-1 have been met by the project applicant.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the

existing Mining Use Permit, which ends in 2031. While the proposed project would be located adjacent to the existing Aspen VIII and IX mining areas, which are currently operating in various phases of surface mining and reclamation, the proposed project would occur on areas that are currently undeveloped grassland, where project implementation would be visually noticeable.

Similar to the visual assessment of the approved project in the 2016 Final EIR, the proposed project's six representative viewpoints were evaluated to determine the degree of visual change of character and quality based on the key factors of vividness, intactness, and unity. Under existing conditions, the Aspen VIII and IX Expansion Areas' vividness is assessed at a high level and intactness and unity are assessed at moderate levels. With implementation of the proposed project, vividness would remain at a high level because the proposed project would be an expansion of an existing surface mining operation, where the new surface mining areas would be similar to the existing surface mining pits (e.g., in size and depth) and would be reclaimed in similar manners (e.g., similar landscaping and engineered slopes) within the same viewshed. With implementation of the proposed project, intactness would be reduced to a low level due to the introduction of additional surface mining pits into the viewshed by the proposed project, which would lessen the intactness of the rural landscape by increasing the size of the unnatural, depressed surface mining site. Lastly, implementation of the proposed project would maintain unity at a moderate level because the proposed project would ultimately result in reclaimed surface mining pits similar to the approved project but different than the surrounding agricultural land. As such, implementation of the proposed project would result in similar visual changes as those determined in the 2016 Final EIR for the approved project.

Because the proposed project would result in similar visual changes as the approved project, the proposed project would also be subject to the requirements of Adopted 2016 Final EIR Mitigation Measure AE-1, which have been revised based on the proposed project (hereinafter referred to as Revised 2016 Final EIR Mitigation Measure AE-1). Revised 2016 Final EIR Mitigation Measure AE-1 requires the use of landscaping, fencing, and/or additional berms to screen the surface mining pits from public view. Nevertheless, while implementation of Revised 2016 Final EIR Mitigation Measure AE-1 would help to screen the proposed project from public view, implementation of the proposed project would still result in an irreversible change of the landform of the project site, similar to the approved project. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to impacts related to visual character would be substantial and the overall impact would remain **significant and unavoidable**.

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measure AE-1.

Revised 2016 Final EIR Mitigation Measure AE-1: Viewsheds Mitigation Measure

A. Direct views of the site shall be screened from public view through the use of landscaping. Landscaping will include the following large trees; valley oak (*Quercus lobata*) and interior live oak (*Quercus wislizenii*); and the following shrubs; western redbud (*Cercis occidentalis*), toyon (*Heteromeles arbutifolia*), hoary coffeeberry (*Rhamnus tomentella*), snowdrop bush (*Styrax officinalis*), and Howard McMinn' manzanita (*Arctostaphylus densiflora*). The placement of landscaping shall be as show in Figure 2-13, "Landscaping and Culvert Details", in the Project Description of this SEIR. The landscaping that will be installed under the large transmission towers along Elder Creek Road shall be limited to landscaping that at maturity will not exceed 15 feet in height.

B. Additional berms and landscaping, or an 8-foot tall solid fence, shall be placed to screen the view of the mining pit for the benefit of those properties located southwest of the Aspen VIII Expansion Area, including the residence at 9895 Elder Creek Road, on accessor parcel number 063-0180-022, and the cemeteries at 9899 Elder Creek Road, on assessor parcel number 063-0180-029. This shall consist of a berm and landscaping combination, or a fence to visually screen, to the satisfaction of the Department of Community Development with input from the neighboring property owners.

Impact AE-2: New Sources of Light or Glare

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project had the potential to create new sources of lighting that could negatively affect adjacent homes and roadways, which could result in safety hazards or adversely affect day or nighttime views in the area (Impact Evaluation AE-2). The 2016 Final EIR included Mitigation Measure AE-2 to require that all new sources of light be shielded to reduce offsite light pollution on adjacent properties and roadways. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure AE-2.

At the time of preparation of this SEIR, the project applicant is continuing to implement Mitigation Measure AE-2 under the approved project.

Proposed Project Impact Evaluation

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. As discussed in Chapter 2, "Project Description," the proposed project would not amend the allowable hours established by the existing Mining Use Permit, which permits operations between 4 a.m. and 10 p.m.; however, typical operations would occur from 6 a.m. to 9 p.m. on weekdays. No surface

mining would occur overnight but portable lighting may be used for dark hours depending on the time of year. In addition, while the proposed project would establish a new access point along Knox Road to allow employees to access the Aspen IX Expansion Area, which would introduce new onsite lighting, no additional permanent lighting would be added along Knox Road.

Because the proposed project would introduce new sources of light to the project site, similar to the approved project, the proposed project would also be required to implement Adopted 2016 Final EIR Mitigation Measure AE-2, which would require that all new lighting sources, portable or permanent, are shielded and directed downward to reduce light pollution spillover on adjacent residences and roadways. Furthermore, effects of lighting would be further reduced as equipment moves below grade as surface mining progresses with project implementation, similar to the approved project. As such, the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts related to new sources of light or glare would not be substantial and the overall impact would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measure AE-2.

ADOPTED 2016 FINAL EIR MITIGATION MEASURE AE-2: REDUCING IMPACTS ASSOCIATED WITH LIGHTING

Any lighting shall be arranged and controlled so as not to illuminate public right of-ways or adjacent properties. In order to reduce direct and reflected light pollution, lighting at the project site shall be equipped with shields that concentrate the illumination downward such that no direct light is cast off the site. Energy efficient lights shall be used. The candle power of the illumination at ground level shall not exceed what is required by any safety or security regulations of any government agency with regulatory oversight of the mining operation.

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5 AGRICULTURAL RESOURCES

INTRODUCTION

This chapter evaluates the potential impacts related to agricultural resources resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the existing agricultural resources within the project site; describes the applicable state and local regulations and policies related to agricultural resources; and analyzes possible impacts to agricultural resources that could occur as the result of implementation of the proposed project.

There is no forest land (as defined in Public Resources Code Section 12220[g]) or timberland (as defined by Public Resources Code Section 4526) within or near the project site. As a result, the effects of project implementation on forestry resources are not evaluated in this SEIR.

No comments regarding agricultural resources were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, “Project Description”, the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project.

While historically the project site was used as rangeland for livestock, it is currently undeveloped, grassland areas that do not support agricultural uses. Surrounding agricultural uses including annual grasslands and grazing areas, rural residential homes, and a nursery facility (Everde Growers).

PROTECTED FARMLAND

FARMLAND MAPPING AND MONITORING PROGRAM DESIGNATION

The State of California maps and classifies farmland through the California Department of Conservation’s Farmland Mapping and Monitoring Program (FMMP). The goal of the FMMP, which typically updates maps every two years, is to document the location and extent of California’s agricultural resources so that they can be considered in the

planning process. While the goal of the FMMP is to record and report changes in the use of agricultural lands every two years, the most current important farmland data that is available in Sacramento County is from 2020 (DOC 2024). Classifications are based on a combination of land use and soil and climate characteristics that determine the degree of suitability of the land for crop production. The classifications under the FMMP are as follows:

- *Prime Farmland* is defined by the State as “land with the best combination of physical and chemical features able to sustain long-term production of agricultural crops.” Prime Farmland has the soil, quality, growing season, and moisture supply needed to produce sustained high yields. To be designated as Prime Farmland, the land must have been used for production of irrigated crops at some time during the four years prior to the mapping date.
- *Farmland of Statewide Importance* is defined by the State as “land similar to Prime Farmland that has a good combination of physical and chemical characteristics for the production of agricultural crops.” This land has less ability to store moisture than Prime Farmland. In order for land to be designated as Farmland of Statewide Importance, it must have been used for production of irrigated crops at some time during the four years prior to the mapping date.
- *Unique Farmland* consists of lower-quality soils but is nonetheless used for production of the state’s leading agricultural crops. Unique Farmland is usually irrigated but may include non-irrigated orchards or vineyards in some climatic zones in California. To qualify for this designation, land must have been used for crops at some time during the four years prior to the mapping date.
- *Farmland of Local Importance* is determined by each county's board of supervisors and a local advisory committee. For Sacramento County, this classification refers to lands which do not qualify as Prime, Statewide, or Unique designation but are currently irrigated crops or pasture or non-irrigated crops; lands that would be Prime or Statewide designation and have been improved for irrigation but are now idle; and lands which currently support confined livestock, poultry operations, and aquaculture.
- *Grazing Lan*d is land which is suitable for grazing livestock. The minimum mapping unit for this category is 40 acres.
- *Urban and Built-Up Land* is defined as land occupied by structures at a density of at least one dwelling unit per 1.5 acres.
- *Land Committed to Nonagricultural Use* consists of existing land that has a permanent commitment to development but has an existing land use of agricultural or grazing lands.
- *Other Land* is not included in any other mapping category, common examples of which include low-density rural developments, brush, timber, wetland, and vacant and nonagricultural land surrounded by urban development.

According to the current (2020) California Department of Conservation (DOC) FMMP, the project site contains roughly 4 acres of Farmland of Statewide Importance, 65.84 acres of Farmland of Local Importance, 160.5 acres of Grazing Land, and 2.85 acres of Other Land (DOC 2020). The category of "Other Land" is for land that does not fit into any other category. Examples of land in this category could include rural development, strip mines and borrow pits, or water bodies smaller than 40 acres. The FMMP designations within the project site are shown in Figure 5-1.

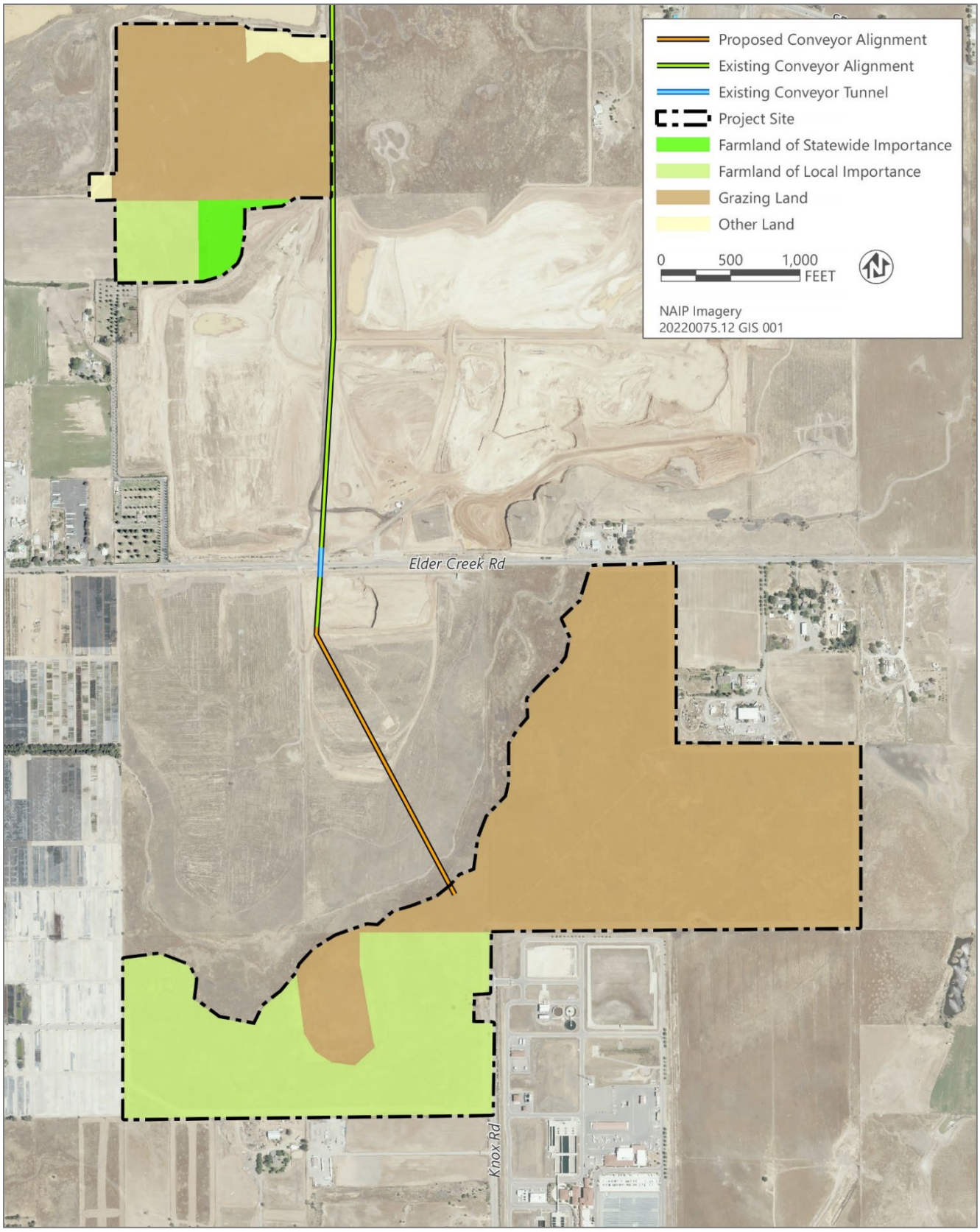
FARMLAND CONVERSION

Over the 6-year period from 2014 to 2020, DOC estimates that the total acreage of Important Farmland in Sacramento County decreased by approximately 1,371 acres annually, with notable losses to Prime Farmland and gains in Farmland of Statewide Importance and Unique Farmland. Table 5-1 summarizes the acreages of agricultural land in Sacramento County between 2014 and 2020 (DOC 2016, 2020).

Table 5-1: Farmland Conversion in Sacramento County, 2014-2020

Land Use Category	Acreage by Category				Average Annual Acreage Change (2014 – 2020)
	2014	2016	2018	2020	
Prime Farmland	91,569	90,691	86,963	84,684	-1,147.5
Farmland of Statewide Importance	43,104	43,342	44,003	43,825	120
Unique Farmland	15,125	15,540	15,579	15,642	86
Farmland of Local Importance	58,852	57,910	55,049	56,275	-429.5
Important Farmland Subtotal	208,650	207,483	201,594	200,426	-1,371
Grazing Land	153,454	153,174	149,987	147,789	-944
Agricultural Land Subtotal	362,104	360,657	351,581	348,215	-2,315
Urban and Built-Up Land	181,297	182,237	183,975	185,537	707
Other Land	74,558	75,069	83,619	85,437	1,813
Water Area	18,120	18,116	16,910	16,896	-204
Total Area Inventoried	636,079	636,079	636,085	636,085	-

Sources: DOC 2016, 2020.



Source: Data download from the CA Department of Conservation for Sacramento County for the year 2020.

Figure 5-1: Farmland Mapping and Monitoring Program Designations within the Project Site

REGULATORY SETTING

FEDERAL

There are no federal policies that pertain to agricultural resources for this project.

STATE

FARMLAND MAPPING AND MONITORING PROGRAM

The California Department of Conservation's FMMP was established in 1984 to document the location, quality, and quantity of agricultural lands and conversion of those lands over time. The program provides impartial analysis of agricultural land use changes throughout California.

The FMMP is tasked with mapping and monitoring important farmlands for most of the State's agricultural areas. The maps are prepared based on soil survey information and land inventory and monitoring criteria developed by the US Department of Agriculture, Natural Resources Conservation Service. The minimum mapping unit used for all agricultural land categories except grazing land is 10 acres. The minimum unit for grazing land is 40 acres. Though FMMP typically updates its farmland maps every two years based on information from local agencies and recent aerial photography, the most recent Sacramento County Important Farmland Map is dated 2020.

WILLIAMSON ACT

The Williamson Act, also known as the California Land Conservation Act of 1965, enables local governments to enter into contracts with private landowners for the purpose of restricting specific parcels of land to agricultural or related open space uses. When the County enters into a contract with the landowners under the Williamson Act, the landowner agrees to limit the use of the land to agriculture and compatible uses for a period of at least 10 years and the County agrees to tax the land at a rate based on the agricultural production of the land, rather than its real estate market value.

No lands within the project site are currently under an active Williamson Act contract.

PUBLIC RESOURCES CODE

The CEQA Statute, Public Resources Code Section 21060.1, defines "agricultural land" as: Prime Farmland, Farmland of Statewide Importance or Unique Farmland, as defined by the United States Department of Agriculture land inventory and monitoring criteria, as modified for California.

LOCAL

SACRAMENTO COUNTY 2030 GENERAL PLAN

The following 2030 General Plan policy is applicable to the proposed project:

- **Policy AG-5.** Projects resulting in the conversion of more than fifty (50) acres of farmland shall be mitigated within Sacramento County, except as specified in the paragraph below, based on a 1:1 ratio, for the loss of the following farmland categories through the specific planning process or individual project entitlement requests to provide in-kind or similar resource value protection (such as easements for agricultural purposes):
    - prime, statewide importance, unique, local importance, and grazing farmlands located outside the USB;
    - prime, statewide importance, unique, and local importance farmlands located inside the USB.

  The Board of Supervisors retains the authority to override impacts to Unique, Local, and Grazing farmlands, but not with respect to Prime and Statewide farmlands. However, if that land is also required to provide mitigation pursuant to a Sacramento County endorsed or approved habitat conservation plan (HCP), then the Board of Supervisors may consider the mitigation land provided in accordance with the HCP as meeting the requirements of this section including land outside of Sacramento County.

  Note: This policy is not tied to any maps contained in the Agricultural Element. Instead, the most current Important Farmland map from the Department of Conservation should be used to calculate mitigation.

COMMUNITY PLANS

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project because the project site is located within its plan area.

VINEYARD COMMUNITY PLAN

The Vineyard Community Plan does not contain policies related to agricultural resources that would apply to the proposed project.

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

Based on Appendix G of the State CEQA Guidelines, impacts to agricultural resources would be significant if implementation of the proposed project would:

- convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use;
- conflict with existing zoning for agricultural use or a Williamson Act contract; or
- involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use.

In addition to the State CEQA Guidelines criteria for significance of farmland loss, General Plan Policy AG-5 defines a substantial farmland loss as 50 acres. The State CEQA Guidelines indicate that loss of Prime Farmland, Farmland of Statewide Importance, and Unique Farmland may be a significant impact, but the General Plan further includes Farmland of Local Importance and Grazing Land – though in the case of Grazing Land, the threshold specifically applies only to such lands that occur outside of the Urban Service Boundary (USB). The project site is located within the County's USB (Sacramento County 2020). Therefore, the conversion of Grazing Land to non-agricultural use is not considered a significance threshold in the following analysis.

ISSUES NOT DISCUSSED FURTHER

CONFLICT WITH EXISTING WILLIAMSON ACT CONTRACTS

The 2016 Final EIR determined that implementation of the approved project would not conflict with existing Williamson Act contracts because there are no current Williamson Act contracts within the approved project site (Impact Evaluation AR-2). Therefore, the 2016 Final EIR determined that this issue did not warrant detailed analysis as no impact would occur.

As discussed above in the "Regulatory Setting," there are no active Williamson Act contracts within the project site. Therefore, there are no active Williamson Act contacts covering the project parcels for which the proposed project could conflict, similar to the approved project. As such, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

METHODOLOGY

The following evaluation of potential impacts associated with agricultural resources is based on a review of planning documents, including policies of the 2030 General Plan, field reviews, and maps. The impact evaluation is based on the thresholds established in the State CEQA Guidelines and the mitigation requirements in 2030 General Plan

Policy AG-5. Conversion of more than 50 acres of Farmland classified as Prime, Statewide Importance, Unique, or Local Importance within the USB is considered a significant impact. According to General Plan Policy AG-5, the most current Important Farmland map from the Department of Conservation should be used to calculate agriculture mitigation acreage. The 2020 FMMP map (Figure 5-1) is the most current map that is available at the time of preparing this document.

Impacts and Analysis

Impact AR-1: Convert Farmland to Non-Agricultural Uses

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project would result in the permanent conversion of 355 acres of farmland (39 acres of Prime Farmland, 225 acres of Farmland of Statewide Importance, and 91 acres of Farmland of Local Importance) (Impact Evaluation AG-1). The 2016 Final EIR included Mitigation Measure AG-1, which required the dedication of agricultural easements to mitigate for the conversion of onsite farmland. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure AG-1. At the time of preparation of this SEIR, the requirements of Mitigation Measure AG-1 have been met by the applicant.

Proposed Project Impact Evaluation

As shown in Figure 5-1, lands within the project site are designated Farmland of Statewide Importance and Farmland of Local Importance in the most current FMMP data. The acreage of farmland that would be converted is estimated and summarized in Table 5-2.

Table 5-2: Converted Farmland Acreage with Implementation of the Proposed Project

Land Use Category	Aspen VIII Expansion Area (acres)	Aspen IX Expansion Area (acres)	Total (acres)
Farmland of Statewide Importance	4	0	**4**
Farmland of Local Importance	7.81	58.03	**65.84**
		Total	**69.84**

Source: Compiled by Ascent in 2024 based on DOC 2020.

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. Compared with the approved project,

implementation of the proposed project would convert an additional 69.84 acres of Important Farmland (4 acres of Farmland of Statewide Importance and 65.84 acres of Farmland of Local Importance) to non-agricultural use (i.e., surface mining use) for up to 14 additional years. Once surface mining operations are complete, the project site would be reclaimed with a similar end use as the existing surrounding mining areas, which consists of open space annual grassland, irrigated pasture suitable for grazing, and stormwater retention pond areas (refer to Figure 2-15 in Chapter 2, "Project Description").

Because implementation of the proposed project would convert more than 50 acres of farmland, similar to the approved project, the proposed project would also be subject to the requirements of Adopted Mitigation Measure AG-1, which requires mitigation at a 1:1 ratio for impacts to farmland (Farmland of Statewide Importance and Farmland of Local Importance). Because the mitigation acreage is specific to the affected acreage, Adopted 2016 Final EIR Mitigation Measure AG-1 has been revised specific to the proposed project (hereinafter referred to as Revised 2016 Final EIR Mitigation Measure AG-1), which would convert 69.84 acres of Important Farmland, compared to the conversion of 355 acres of Important Farmland under the approved project.

Revised 2016 Final EIR Mitigation Measure AG-1 would require mitigation of Important Farmland (Farmland of Statewide Importance and Farmland of Local Importance) at a 1:1 ratio through the participation in the South Sacramento Habitat Conservation Plan consistent with Policy AG-5 of the 2030 General Plan. However, in accordance with CEQA case law (*King and Gardiner Farms, LLC v. County of Kern* (2020) 45 Cal.App.5th 81), agricultural conservation easements cannot mitigate the direct impacts of farmland conversion because they do not create new farmland to replace that which is lost. In addition, the County also recognizes that prime soils are a finite resource. When an area is permanently taken out of agricultural production, there has been a net loss of agricultural lands. Other agricultural lands may be preserved through compliance with mitigation, but new agricultural soils would not be created. Therefore, there would be a substantial net loss of agricultural production within Sacramento County as a result of the proposed project.

As described above, the proposed project would convert additional farmland beyond that identified for the approved project in the 2016 Final EIR. While similar mitigation would be applied (preservation of agricultural land), no new farmland would be created and the productivity of existing farmland would not be improved; therefore, this impact would not be fully mitigated and there would be a substantial increase in the farmland conversion impact identified in the 2016 Final EIR. The proposed project's contribution to impacts related to the conversion of agricultural land to non-agricultural uses would be substantial and the overall impact would now be **significant and unavoidable**.

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measure AG-1.

Revised 2016 Final EIR Mitigation Measure AG-1: Agricultural Farmland Impacts

Prior to approval of the Work Authorization Permit, the project applicant shall demonstrate that adequate land has been set aside for the farmland converted in the Aspen VIII and IX Expansion Areas through participation in the South Sacramento Habitat Conservation Plan to offset the loss of Important Farmland with implementation of the proposed project. Acreage of land preserved shall, at a minimum, result in a 1:1 preservation ratio for the portion of the Aspen VIII and IX Expansion Areas under consideration.

Impact AR-2: Conflict with Existing, Adjacent Agricultural Use and Zoning

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project would not introduce incompatible uses in the vicinity of existing agricultural uses due to the presences of other mines in the existing landscape, compatibility with agricultural operations, and reclamation to an agricultural or open space end use once mining activities are completed. Therefore, the 2016 Final EIR determined impacts related to conversion of farmland to non-agricultural uses due to conflicting with existing or adjacent agricultural uses and/or zoning to be less than significant (Impact Evaluation AR-3).

Proposed Project Impact Evaluation

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. As discussed in “Environmental Setting,” while the project site was historically used as rangeland for livestock, it is currently undeveloped, grassland areas that do not support agricultural uses. Surface mining activities associated with the proposed project would be similar to those already occurring on the approved project site as part of the approved project and would not interfere with offsite agricultural operations or uses near the project as concluded in the 2016 Final EIR.

Once surface mining activities are complete, the project site would be reclaimed in accordance with the Amended Reclamation Plan, which requires a similar end use as the existing surrounding mining areas (i.e., open space annual grassland, irrigated pasture suitable for grazing, and stormwater retention pond areas). Once final reclamation is completed, the end open space grassland uses would not conflict with the surrounding agricultural uses. Therefore, the proposed project would not conflict with existing, adjacent agricultural uses and zoning. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project’s contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

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6 AIR QUALITY

INTRODUCTION

This chapter evaluates the potential impacts related to air quality that could result from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the existing air quality conditions; discusses the applicable federal, state, and local regulations and policies related to air quality; and assesses the potential effects that implementation of the proposed project may have on air quality. This section is based on the *Air Quality, Health Risk, and Greenhouse Gas Assessment* prepared by Ascent in January 2025, presented in Appendix B1.

Comments related to air quality received in response to the Notice of Preparation (NOP) included requests to evaluate potential conflicts between air quality emissions generated by the proposed project and future West Jackson Highway Master Plan (WJHMP) land uses. Refer to Chapter 19, "Summary of Impacts and Other CEQA Considerations", of this SEIR for a discussion on the proposed project's potential to result in cumulative air quality impacts when considered with cumulative projects, including the WJHMP. The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, "Project Description," the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

The project site is located within the Sacramento Valley Air Basin (SVAB). The SVAB includes all of Butte, Colusa, Glenn, Sacramento, Shasta, Sutter, Tehama, Yolo, and Yuba counties. The ambient concentrations of air pollutant emissions are determined by the number of emissions released by the sources of air pollutants and the atmosphere's ability to transport and dilute such emissions. Natural factors that affect transport and dilution include terrain, wind, atmospheric stability, and sunlight. Therefore, the existing air quality conditions in the area are determined by several natural factors, including topography, meteorology, and climate, as well as the number of emissions released by existing air pollutant sources, as discussed separately below.

Climate, Meteorology, and Topography

The SVAB is a relatively flat area bordered by the north Coast Ranges to the west and the northern Sierra Nevada to the east. Air flows into the SVAB through the Carquinez Strait, the only breach in the western mountain barrier, and moves across the Sacramento River–San Joaquin River Delta (Delta) from the San Francisco Bay area.

The Mediterranean climate type of the SVAB is characterized by hot, dry summers and cool, rainy winters. During the summer, daily temperatures range from 50 degrees Fahrenheit (°F) to more than 100°F. The inland location and surrounding mountains shelter the area from much of the ocean breezes that keep the coastal regions moderate in temperature. Most precipitation in the area results from air masses that move in from the Pacific Ocean, usually from the west or northwest, during the winter months. More than half the total annual precipitation falls during the winter rainy season (November through February); the average winter temperature is a moderate 49°F. Also characteristic of SVAB winters are periods of dense and persistent low-level fog, which are most prevalent during periods between storms. The prevailing winds are moderate in speed, varying from moisture-laden breezes from the south to dry land breezes from the north (WRCC 2002).

The mountains surrounding the SVAB create a barrier to airflow, which leads to the entrapment of air pollutants when meteorological conditions are unfavorable for transport and dilution. The highest frequency of poor air movement occurs in the fall and winter when high-pressure cells are often present over the SVAB. The lack of surface wind during these periods, combined with the reduced vertical flow caused by a decline in surface heating, reduces the influx of air and leads to the concentration of air pollutants under stable meteorological conditions. Surface concentrations of air pollutant emissions are highest when these conditions occur in combination with agricultural burning activities or with temperature inversions, which hamper dispersion by creating a ceiling over the area and trapping air pollutants near the ground.

May through October is ozone season in the SVAB. This period is characterized by poor air movement in the mornings, with the arrival of the Delta breeze from the southwest in the afternoons. In addition, longer daylight hours provide a plentiful amount of sunlight to fuel photochemical reactions between reactive organic gases (ROG) and oxides of nitrogen (NO_x), resulting in the formation of ozone. Typically, the Delta breeze transports air pollutants northward out of the SVAB; however, a phenomenon known as the Schultz Eddy prevents this from occurring during approximately half of the time from July to September. The Schultz Eddy phenomenon causes the wind to shift southward, blowing air pollutants back into the SVAB. This phenomenon exacerbates the concentration of air pollutant emissions in the area and contributes to the area violating the ambient air quality standards.

Criteria Air Pollutants

Concentrations of criteria air pollutants are used to indicate the quality of the ambient air. A brief description of key criteria air pollutants in the SVAB is provided below.

Emission source types and health effects are summarized in Table 6-1. Sacramento County's attainment status for the California Ambient Air Quality Standards (CAAQS) and the National Ambient Air Quality Standards (NAAQS) are shown in Table 6-2.

Table 6-1: Sources and Health Effects of Criteria Air Pollutants

Pollutant	Sources	Acute[1] Health Effects	Chronic[2] Health Effects
Ozone	secondary pollutant resulting from the reaction of ROG and NO_X in the presence of sunlight. ROG emissions result from incomplete combustion and evaporation of chemical solvents and fuels; NO_X results from the combustion of fuels	increased respiration and pulmonary resistance; cough, pain, shortness of breath, lung inflammation	permeability of respiratory epithelia, the possibility of permanent lung impairment
Carbon monoxide (CO)	incomplete combustion of fuels; motor vehicle exhaust	headache, dizziness, fatigue, nausea, vomiting, death	permanent heart and brain damage
Nitrogen dioxide (NO_2)	combustion devices, e.g., boilers, gas turbines, and mobile and stationary reciprocating internal combustion engines	coughing, difficulty breathing, vomiting, headache, eye irritation, chemical pneumonitis or pulmonary edema; breathing abnormalities, cough, cyanosis, chest pain, rapid heartbeat, death	chronic bronchitis, decreased lung function
Sulfur dioxide (SO_2)	coal and oil combustion, steel mills, refineries, and pulp and paper mills	irritation of the upper respiratory tract, increased asthma symptoms	insufficient evidence linking SO_2 exposure to chronic health impacts
Respirable particulate matter (PM_{10}), Fine particulate matter ($PM_{2.5}$)	fugitive dust, soot, smoke, mobile and stationary sources, construction, fires, and natural windblown dust, and formation in the atmosphere by condensation and/or transformation of SO_2 and ROG	breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular diseases, premature death	alterations to the immune system, carcinogenesis
Lead	metal processing	reproductive/ developmental effects (fetuses and children)	numerous effects including neurological, endocrine, and cardiovascular effects

Notes: NO_X = oxides of nitrogen; ROG = reactive organic gases.

[1] "Acute" refers to the effects of short-term exposures to criteria air pollutants, usually at fairly high concentrations.

[2] "Chronic" refers to the effects of long-term exposures to criteria air pollutants, usually at lower, ambient concentrations.

Source: EPA 2025a.

Table 6-2: Attainment Status Designations for Sacramento County

Pollutant	National Ambient Air Quality Standard	California Ambient Air Quality Standard
Ozone	Attainment (1-hour)[1]	Nonattainment (1-hour) Classification-Serious[2]
	Nonattainment (8-hour)[3] Classification=Moderate	Nonattainment (8-hour) Nonattainment (8-hour)
Respirable particulate matter (PM_{10})	Attainment (Maintenance) (24-hour)	Nonattainment (24-hour)
		Nonattainment (Annual)
Fine particulate matter ($PM_{2.5}$)	Nonattainment (24-hour)	(No State Standard for 24-Hour)
	Attainment (Annual)	Attainment (Annual)
Carbon monoxide (CO)	Attainment (1-hour)	Attainment (1-hour)
	Attainment (8-hour)	Attainment (8-hour)
Nitrogen dioxide (NO_2)	Unclassified/Attainment (1-hour)	Attainment (1-hour)
	Unclassified/Attainment (Annual)	Attainment (Annual)
Sulfur dioxide (SO_2)[5]	(Attainment Pending) (1-hour)	Attainment (1-hour)
		Attainment (24-hour)
Lead (Particulate)	Attainment (3-month rolling avg.)	Attainment (30-day average)
Hydrogen Sulfide	No Federal Standard	Unclassified (1-hour)
Sulfates		Attainment (24-hour)
Visibly Reducing Particles		Unclassified (8-hour)
Vinyl Chloride		Unclassified (24-hour)

[1] Air Quality meets federal 1-hour Ozone standard (77 FR 64036). EPA revoked this standard, but some associated requirements still apply. SMAQMD attained the standard in 2009. SMAQMD has requested EPA recognize attainment to fulfill the requirements.

[2] Per Health and Safety Code Section 40921.5(c), the classification is based on 1989–1991 data, and therefore does not change.

[3] 2015 Standard.

[4] 2010 Standard.

Sources: CARB 2023. EPA 2025b.

Toxic Air Contaminants

According to the *California Almanac of Emissions and Air Quality* (CARB 2013), health risks from toxic air contaminants (TACs) can largely be attributed to relatively few compounds, the most important being diesel particulate matter exhaust from diesel engines (diesel PM) (CARB 2013:5-2 to 5-4). Diesel PM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances. Although diesel PM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emissions control system is being used. Unlike the other TACs, no ambient monitoring data are available for diesel PM because no routine measurement method currently exists. The TACs for which data are available

that pose the greatest existing ambient risk in California are benzene, 1,3-butadiene, acetaldehyde, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, and perchloroethylene. Diesel PM poses the greatest health risk among the 10 TACs mentioned. Overall, statewide emissions of diesel PM are forecasted to decline by 71 percent between 2000 and 2035 (CARB 2013: 3-8), and this trend is expected to continue post-2035. The project site is not located within 1,000 feet of any stationary or major TAC-emitting roadways. The Mather Airport is located approximately 2 miles to the northeast of the project site.

Odors

Odors are generally regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals can detect very small quantities of specific substances; others may not have the same sensitivity but may be sensitive to the odors of other substances. In addition, people may have different reactions to the same odor; an odor that is offensive to one person may be perfectly acceptable to another (e.g., fast food restaurant). It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is due to the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor, and recognition only occurs with an increase in intensity.

Odor sources of concern include wastewater treatment plants, sanitary landfills, composting facilities, recycling facilities, petroleum refineries, chemical manufacturing plants, painting operations, rendering plants, food packaging plants, and cannabis (SMAQMD 2022). There are no land uses typically associated with nuisance odors located within proximity of the project site.

Sensitive receptors

Sensitive receptors are generally considered to include those land uses where exposure to pollutants could result in health-related risks to sensitive individuals, such as children or the elderly. Residential dwellings, schools, hospitals, playgrounds, and similar facilities are of primary concern due to the presence of individuals who are particularly sensitive to pollutants and/or the potential for increased and prolonged exposure of these individuals to pollutants.

The nearest sensitive receptors to the Aspen VIII Expansion Area are the single-family homes, approximately 1,600 feet south, along Elder Creek Road. The Bethany Slavic Mission Church is also situated approximately 950 feet northwest of the Aspen VIII Expansion Area along Jackson Road. The nearest sensitive receptors to the Aspen IX Expansion Area include scattered single-family residences, approximately 90 to 950 feet south, along Florin Road, as well as scattered single-family residences, approximately 750 feet northeast, along Elder Creek Road.

REGULATORY SETTING

FEDERAL

The US Environmental Protection Agency (EPA) has been charged with implementing national air quality programs. EPA's air quality mandates draw primarily from the federal Clean Air Act (CAA), which was enacted in 1970. The most recent major amendments were made by Congress in 1990. EPA's air quality efforts address both criteria air pollutants and hazardous air pollutants (HAPs), federal parlance for TACs.

CRITERIA AIR POLLUTANTS

The CAA required EPA to establish the NAAQS for common air pollutants, referred to as criteria air pollutants. EPA has established primary and secondary NAAQS for the following criteria air pollutants: ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), respirable particulate matter (PM_{10}), and fine particulate matter ($PM_{2.5}$), and lead. Criteria air pollutants are compounds that, at certain concentrations, can cause harm to human and animal health, as well as the environment. Extensive scientific and economic research has been conducted to evaluate the specific concentrations at which these pollutants may cause harm to health and the environment. These concentrations are reflected in EPA's NAAQS, which are shown in Table 6-3. Sacramento County's attainment status of the NAAQS is summarized in Table 6-2. The primary standards protect public health, and the secondary standards protect public welfare. The CAA also requires each state to prepare a state implementation plan (SIP) for attaining and maintaining the NAAQS. The federal CCA Amendments of 1990 added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. The EPA is responsible for reviewing all SIPs to determine whether they conform to the mandates of the CAA and its amendments, as well as whether their implementation will achieve the air quality goals. If EPA determines a SIP to be inadequate, it may prepare a federal implementation plan that imposes additional control measures. If an approvable SIP is not submitted or implemented within the mandated timeframe, sanctions may be applied to transportation funding and stationary air pollution sources within the air basin.

California's SIP is updated periodically to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies. The 2022 State SIP Strategy, adopted on September 22, 2022, is the most current SIP and is a compilation of plans and regulations that govern how the region and state will comply with the CAA requirements to attain and maintain the 70 parts per billion (ppb) ozone standard by reducing emissions of ROG, NO_x, sulfur oxides (SO_x), and $PM_{2.5}$.

Table 6-3: National and California Ambient Air Quality Standards

Pollutant	Averaging Time	California (CAAQS)[a,b]	National (NAAQS)[c]	
			Primary[b,d]	Secondary[b,e]
Ozone	1-hour	0.09 ppm (180 µg/m^3)	–[e]	Same as primary standard
	8-hour	0.070 ppm (137 µg/m^3)	0.070 ppm (147 µg/m^3)	
Carbon monoxide (CO)	1-hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	Same as primary standard
	8-hour	9 ppm[f] (10 mg/m^3)	9 ppm (10 mg/m^3)	
Nitrogen dioxide (NO_2)	Annual arithmetic mean	0.030 ppm (57 µg/m^3)	53 ppb (100 µg/m^3)	Same as primary standard
	1-hour	0.18 ppm (339 µg/m^3)	100 ppb (188 µg/m^3)	—
Sulfur dioxide (SO_2)	24-hour	0.04 ppm (105 µg/m^3)	—	—
	3-hour	—	—	0.5 ppm (1,300 µg/m^3)
	1-hour	0.25 ppm (655 µg/m^3)	75 ppb (196 µg/m^3)	—
Respirable particulate matter (PM_{10})	Annual arithmetic mean	20 µg/m^3	—	Same as primary standard
	24-hour	50 µg/m^3	150 µg/m^3	
Fine particulate matter ($PM_{2.5}$)	Annual arithmetic mean	12 µg/m^3	9.0 µg/m^3	15.0 µg/m^3
	24-hour	—	35 µg/m^3	Same as primary standard
Lead[f]	Calendar quarter	—	1.5 µg/m^3	Same as primary standard
	30-day average	1.5 µg/m^3	—	—
	Rolling 3-month average	—	0.15 µg/m^3	Same as primary standard
Hydrogen sulfide	1-hour	0.03 ppm (42 µg/m^3)	No national standards	
Sulfates	24-hour	25 µg/m^3		
Vinyl chloride[f]	24-hour	0.01 ppm (26 µg/m^3)		
Visibility-reducing particulate matter	8-hour	Extinction of 0.23 per km		

Notes: µg/m^3 = micrograms per cubic meter; CAAQS = California ambient air quality standards; km = kilometers; mg/m^3 = milligrams per cubic meter; NAAQS = national ambient air quality standards; ppb = parts per billion; ppm = parts per million.

[a] California standards for ozone, carbon monoxide, SO_2 (1- and 24-hour), NO_2, particulate matter, and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25 degrees Celsius (°C) and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[c] National standards (other than the standards for ozone and particulate matter and those based on annual averages or annual arithmetic means) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. The PM_{10} 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than 1. The $PM_{2.5}$ 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact the US Environmental Protection Agency for further clarification and current federal policies.

[d] National primary standards: The levels of air quality necessary, with an adequate margin of safety, to protect public health.

[e] National secondary standards: The levels of air quality necessary to protect public welfare from any known or anticipated adverse effects of a pollutant.

[f] The California Air Resources Board has identified lead and vinyl chloride as toxic air contaminants with no threshold of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

Source: CARB 2024.

EPA has established several emission standards for on- and off-road heavy-duty diesel engines used in trucks and other equipment. These standards were established in part because diesel engines are a significant source NO_X, PM_{10}, and $PM_{2.5}$ and because EPA has identified diesel PM as a probable carcinogen. Implementation of the on-road heavy-duty diesel engine standards and the off-road heavy-duty diesel engine standards is estimated to reduce particulate matter and NO_X emissions from diesel engines by up to 95 percent by 2030, by which time the heavy-duty vehicle fleet is expected to be completely replaced with newer heavy-duty vehicles that comply with these emission standards.

In concert with the diesel engine emission standards, EPA regulations have also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of diesel PM. The new standards reduced the amount of sulfur allowed by 97 percent for highway diesel fuel (from 500 parts per million by weight [ppmw] to 15 ppmw), and by 99 percent for off-highway diesel fuel (from approximately 3,000 ppmw to 15 ppmw). The low-sulfur highway fuel (15 ppmw sulfur), also called ultra-low sulfur diesel, is currently required for use by all vehicles in the US. All the aforementioned federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications, making the requirements more stringent or the implementation dates sooner.

Hazardous Air Pollutants and Toxic Air Contaminants

TACs are a defined set of airborne pollutants that may pose a present or potential hazard to human health. A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations.

A wide range of sources, from industrial plants to motor vehicles, emit TACs. The health effects associated with TACs are quite diverse and generally are assessed locally rather than regionally. TACs can cause long-term health effects, such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage, or short-term acute effects, such as eye watering, respiratory irritation (a cough), runny nose, throat pain, and headaches.

For evaluation purposes, TACs are separated into carcinogens and noncarcinogens based on the nature of the physiological effects associated with exposure to pollutants. Carcinogens are assumed to have no safe threshold below which health impacts would not occur. This contrasts with criteria air pollutants, for which acceptable levels of exposure can be determined and for which the ambient standards have been

established (Table 6-3). Cancer risk from TACs is expressed as excess cancer cases per one million exposed individuals, typically over a lifetime of exposure.

EPA regulates HAPs through its National Emission Standards for Hazardous Air Pollutants. The standards for a particular source category require the maximum degree of emission reduction that EPA determines to be achievable, which is known as the Maximum Achievable Control Technology standards. These standards are authorized by Section 112 of the 1970 CAA, and the regulations are published in 40 Code of Federal Regulations (CFR) Parts 61 and 63.

STATE

CALIFORNIA AIR RESOURCES BOARD

The California Air Resources Board (CARB) is the agency responsible for coordinating and overseeing state and local air pollution control programs in California, as well as implementing the California Clean Air Act (CCAA). The CCAA, which was adopted in 1988, required CARB to establish the CAAQS (see Table 6-3).

CRITERIA AIR POLLUTANTS

CARB has established CAAQS for sulfates, hydrogen sulfide, vinyl chloride, visibility-reducing particulate matter, and the above-mentioned federally regulated criteria air pollutants. In most cases, the CAAQS are more stringent than the NAAQS. Differences in the standards are generally explained by the health effect studies considered during the standard-setting process and the interpretation of the study results. In addition, the CAAQS incorporates a margin of safety to protect sensitive individuals.

The CCAA requires that all local air districts in the state endeavor to attain and maintain the CAAQS by the earliest date practical. Sacramento County's attachment status of the CAAQS is summarized in Table 6-2. The CCAA specifies that local air districts should focus particular attention on reducing the emissions from transportation and areawide emission sources. The CCAA also provides air districts with the authority to regulate indirect sources, such as vehicle movement and residential, commercial, and industrial development.

TOXIC AIR CONTAMINANTS

TACs in California are regulated primarily through the Tanner Air Toxics Act (Assembly Bill [AB] 1807, Chapter 1047, Statutes of 1983) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (Hot Spots Act) (AB 2588, Chapter 1252, Statutes of 1987). AB 1807 sets forth a formal procedure for CARB to designate substances as TACs. Research, public participation, and scientific peer review are required before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and adopted EPA's list of HAPs as TACs. In 1998, diesel PM was added to CARB's list of TACs.

After a TAC is identified, CARB then adopts an airborne toxics control measure for sources that emit that particular TAC. If a threshold exists for a substance at which

there is no toxic effect, the control measure must reduce exposure to a level below that threshold. If no safe threshold exists, the measure must incorporate the best available control technology (BACT) to minimize toxic emissions.

The Hot Spots Act requires existing facilities that emit toxic substances above a specified level to prepare an inventory of toxic emissions, prepare a risk assessment if emissions are significant, notify the public of significant risk levels, and prepare and implement risk reduction measures.

CARB has adopted diesel exhaust control measures and more stringent emissions standards for various transportation-related mobile sources of emissions, including transit buses, and off-road diesel equipment (e.g., tractors, generators). Over time, the replacement of older vehicles will result in a vehicle fleet that produces substantially lower levels of TACs than under current conditions. Mobile-source emissions of TACs (e.g., benzene, 1-3-butadiene, diesel PM) have been reduced significantly over the last decade and will be reduced further in California through a progression of regulatory measures (e.g., Low Emission Vehicle/Clean Fuels and Phase II reformulated gasoline regulations) and control technologies. With the implementation of CARB's Risk Reduction Plan and other regulatory programs, it is estimated that emissions of diesel PM will be less than half of those in 2010 by 2035 (CARB 2020). Adopted regulations are also expected to continue reducing formaldehyde emissions from cars and light-duty trucks. As emissions are reduced, it is expected that risks associated with exposure to the emissions will also be reduced.

REGIONAL

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

CRITERIA AIR POLLUTANTS

The Sacramento Metropolitan Air Quality Management District (SMAQMD) is the primary agency responsible for regional air quality planning to attain the NAAQS and CAAQS in Sacramento County. SMAQMD works with other local air districts in the Sacramento region to maintain the region's portion of the SIP for ozone. The SIP is a compilation of plans and regulations that govern how the region and State will comply with the CAA requirements to attain and maintain the NAAQS for ozone. The Sacramento Region has been designated as a "severe" 2015 8-hour ozone nonattainment area with an extended attainment deadline of June 15, 2019. The *2018 Sacramento Regional 2008 8-Hour Ozone Attainment and Further Reasonable Progress Plan* was approved by CARB on November 16, 2017, with the 2018 Updates to the California SIP being adopted on October 25, 2018. The previous 2013 Update to the *8-Hour Ozone Attainment and Reasonable Further Progress Plan* was approved and promulgated by EPA for the 1997 8-Hour Ozone Standard. At a public meeting held on October 26, 2023, CARB approved the *2023 Sacramento Regional Plan for the 2015 70-ppb 8-Hour Ozone Standard* (2023 Plan). The 2023 Plan was prepared by the five local air districts of the Sacramento Federal Non-attainment Area (Sacramento Region, or Sacramento Federal Nonattainment Area [SFNA]), with the support of CARB.

On January 20, 1994, EPA classified Sacramento County as a "moderate" nonattainment area for the 24-hour PM_{10} NAAQS (58 CFR 67334). Sacramento County attained the standard from 1998 to 2000 (67 CFR 7082). To be reclassified as an attainment area, the CAA Section 175A requires attainment and maintenance of the NAAQS for 20 years, demonstrated in two consecutive 10-year maintenance periods. After Sacramento attained the standard, SMAQMD submitted a *PM_{10} Implementation/Maintenance Plan and Redesignation Request for Sacramento County* to EPA. EPA approved the first *Implementation/Maintenance Plan for Sacramento County* on September 26, 2013 (78 CFR 59261), which became effective on October 28, 2013, and covers the first 10-year maintenance period until 2023. For the second 10-year maintenance period, SMAQMD has prepared the Second 10-year PM_{10} Maintenance Plan for Sacramento County that shows maintenance of the 24-hour PM_{10} NAAQS from 2024 through 2033. This plan includes updated emission inventories, demonstrates maintenance of the PM_{10} standard, provides an updated control measure evaluation, and establishes new motor vehicle emissions budgets (SMAQMD 2021). The second *10-year PM_{10} Maintenance Plan for Sacramento County* was submitted to EPA as a revision to the California SIP on October 20, 2021, and the Final Rule became effective on April 15, 2024.

SMAQMD has developed a set of guidelines for use by lead agencies when preparing environmental documents. The guidelines contain thresholds of significance for criteria pollutants and TACs, and also make recommendations for conducting air quality analyses. After SMAQMD guidelines have been consulted and the air quality impacts of a project have been assessed, the lead agency's analysis undergoes a review by SMAQMD. SMAQMD submits comments and suggestions to the lead agency for incorporation into the environmental document.

All projects are subject to adopted SMAQMD rules and regulations in effect at the time of construction. Specific rules applicable to the proposed project may include the following:

- **Rule 201**: **General Permit Requirements.** Any project that includes the use of equipment capable of releasing emissions into the atmosphere may be required to obtain permit(s) from SMAQMD before equipment operation. The applicant, developer, or operator of a project that includes an emergency generator, boiler, or heater should contact SMAQMD early to determine whether a permit is required, and to begin the permit application process. Portable construction equipment (e.g., generators, compressors, pile drivers, lighting equipment) with an internal combustion engine greater than 50 horsepower must have a SMAQMD permit or CARB portable equipment registration.
- **Rule 202**: **New Source Review.** The purpose of this rule is to provide for the issuance of authorities to construct and permits to operate at new and modified stationary air pollution sources and to provide mechanisms, including emission offsets, by which authorities to construct such sources may be granted without interfering with the attainment or maintenance of ambient air quality standards.
- **Rule 402**: **Nuisance.** A person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury,

detriment, nuisance, or annoyance to any considerable number of persons or the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause or have natural tendency to cause injury or damage to business or property.

- **Rule 403**: **Fugitive Dust.** The developer or contractor is required to control dust emissions from earthmoving activities or any other construction activity to prevent airborne dust from leaving the project site. Fugitive dust controls include the following:
  - Water all exposed surfaces two times daily.
  - Cover or maintain at least 2 feet of free board on haul trucks transporting soil, sand, or other loose material on the site.
  - Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day.
  - Limit vehicle speeds on unpaved roads to 15 miles per hour.
  - All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
  - Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes.
  - Maintain all construction equipment in proper working condition according to manufacturer's specifications.
- **Rule 902**: **Asbestos.** The developer or contractor is required to notify SMAQMD of any regulated renovation or demolition activity. Rule 902 contains specific requirements for surveying, notification, removal, and disposal of material containing asbestos.

In addition, if modeled construction-generated emissions for a project are not reduced to levels below SMAQMD's mass emission threshold (85 pounds per day [lb/day] for NO_X, 80 lb/day or 13.2 tons per year (tpy) for PM_{10}, and 82 lb/day or 15 tpy for $PM_{2.5}$) after the standard construction best management practices are applied, then SMAQMD requires an offsite construction mitigation fee to purchase offsite emissions reductions. Such purchases are made through SMAQMD's Heavy Duty Incentive Program, through which select owners of heavy-duty equipment in Sacramento County can repower or retrofit their old engines with cleaner engines or technologies (SMAQMD 2022).

As discussed in greater detail below in the "Thresholds of Significance" and "Methodology" sections, the thresholds of significance have been developed in consideration of long-term regional air quality planning. Projects that are found to emit emissions in exceedance of these bright-line thresholds would generate a cumulatively considerable contribution of regional air pollution which could obstruct the region's attainment of the NAAQS and/or CAAQS or cause a localized exceedance of these concentration-based standards within the SVAB. Conversely, projects that emit levels of

air pollution below these thresholds would not affect the SVAB's ability to attain the NAAQs and/or CAAQS.

TOXIC AIR CONTAMINANTS

At the local level, air districts may adopt and enforce CARB control measures for TACs. Under SMAQMD Rule 201 ("General Permit Requirements"), Rule 202 ("New Source Review"), and Rule 207 ("Federal Operating Permit"), all sources that possess the potential to emit TACs are required to obtain permits from SMAQMD. Permits may be granted to these operations if they are constructed and operated in accordance with applicable regulations, including New Source Review standards and air toxics control measures. SMAQMD limits emissions and public exposure to TACs through a number of programs. SMAQMD prioritizes TAC-emitting stationary sources based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors. Sensitive receptors are people, or facilities that generally house people (e.g., schools, hospitals, residences), that may experience adverse effects from unhealthful concentrations of air pollutants.

HEALTH EFFECTS

SMAQMD has also issued *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District, Sacramento, California,* which contains guidance on how to address the California Supreme Court decision in Sierra Club v. County of Fresno, 6 Cal.5th 502 (2018)—a court decision often referred to as the Friant Ranch decision (SMAQMD 2020). In that decision, the California Supreme Court held that an EIR should "relate the expected adverse air quality impacts to likely health consequences or explain in meaningful detail why it is not feasible at the time of drafting to provide such an analysis." SMAQMD's guidance recommends using the Minor Project Health Effects Tool to estimate the level of health effects for an emissions source that results in emissions at or below criteria air pollutant and precursor thresholds of significance. The sole input for the Minor Project Health Effects Tool is the project's geographical location, and the output of the Minor Project Health Effects Tool is based on that location and modeled emissions at 82 lb/day of NO_X, ROG, or particulate matter, which are the highest thresholds of significance for each of these pollutants in the SMAQMD and neighboring air districts. Therefore, the Minor Project Health Effects Tool is used for projects with emissions at or below air district thresholds of significance. To estimate health effects for larger projects at strategic locations in the SFNA, a Strategic Area Project Health Effects Screening Tool (Strategic Area Project Tool) was developed with additional photochemical and health effects modeling for six locations at NO_X, ROG, and $PM_{2.5}$ emission rates two times and eight times the 82 lb/day thresholds of significance level. The user selects one of the six modeled locations and inputs the NO_x, ROG, and $PM_{2.5}$ emission rates for the proposed project. The Strategic Area Project Tool interpolates the health effects from the modeled emission rates to generate a health effects summary table for the user supplied emissions at the user selected location.

ODORS

Although offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable stress among the public and often generating citizen complaints to local governments and SMAQMD. SMAQMD's Rule 402 ("Nuisance") regulates odors.

LOCAL

SACRAMENTO COUNTY 2030 GENERAL PLAN

The following 2030 General Plan policies would apply to the proposed project (Sacramento County 2022):

- **Policy AQ-3.** Buffers and/or other appropriate exposure reduction measures shall be established on a project-by-project basis and incorporated during review to provide for protection of sensitive receptors from sources of air pollution or odor. CARB's "Strategies to Reduce Air Pollution Exposure Near High Volume Roadways" Technical Advisory and the SMAQMD's "Mobile Sources Air Toxics Protocol" or applicable SMAQMD guidance shall be utilized when establishing these exposure reduction measures.
- **Policy AQ-11.** Encourage contractors operating in the county to procure and to operate low-emission vehicles, and to seek low emission fleet status for their off-road equipment.
- **Policy AQ-13.** Use CARB and SMAQMD guidelines for Sacramento County facilities and operations to comply with mandated measures to reduce emissions from fuel consumption, energy consumption, surface coating operations, and solvent usage.
- **Policy AQ-16**. Prohibit the idling of on-and off-road engines when the vehicle is not moving or when the off-road equipment is not performing work for a period of time greater than five minutes in any one-hour period
- **Policy AQ-17.** Promote optimal air quality benefits through energy conservation measures in new development.
- **Policy AQ-19.** Require all feasible reductions in emissions for the operation of construction vehicles and equipment on major land development and roadway construction projects.
- **Policy AQ-21.** Support SMAQMD's particulate matter control measures for residential wood burning and fugitive dust.

COMMUNITY PLANS

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project as the project site is located within the plan area.

VINEYARD COMMUNITY PLAN

The Vineyard Community Plan does not contain policies related to air quality that would apply to the proposed project

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

According to Appendix G of the State CEQA Guidelines, impacts on air quality would be significant if implementation of the proposed project would:

- conflict with or obstruct implementation of the applicable air quality plan;
- result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard;
- expose sensitive receptors to substantial pollutant concentrations; or
- result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

For the proposed project, the significance criteria used to evaluate project impacts on air quality under CEQA are based on the criteria for air quality in Appendix G of the State CEQA Guidelines, as well as the thresholds of significance adopted by SMAQMD. SMAQMD's air quality thresholds of significance are tied to achieving or maintaining attainment designations with NAAQS and CAAQS, which are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health. Implementing the proposed project would have a significant impact related to air quality, such that human health would be adversely affected if it would (SMAQMD 2022):

- cause construction-generated criteria air pollutant or precursor emissions to exceed the SMAQMD-recommended thresholds of 85 lb/day for NOx, 80 lb/day or 14.6 tpy for PM_{10}, and 82 lb/day or 15 tpy for $PM_{2.5}$ after SMAQMD's Basic Construction Emission Control Practices (construction BMPs) have been implemented;
- result in a net increase in long-term operational criteria air pollutant or precursor emissions that exceed the SMAQMD-recommended thresholds of 65 lb/day for ROG and NOx, 80 lb/day or 14.6 tpy for PM_{10}, and 82 lb/day or 15 tpy for $PM_{2.5}$ after SMAQMD's BACT and operational BMPs have been applied;
- result in short-term construction and long-term operational local mobile-source CO emissions that would violate or contribute substantially to concentrations that exceed the 1-hour CAAQS of 20 ppm or the 8-hour CAAQS of 9 ppm;
- expose any off-site sensitive receptor to a substantial incremental increase in TACs emissions that exceed 10 in 1 million for carcinogenic risk (i.e., the risk of contracting cancer) and/or a noncarcinogenic hazard index of 1.0 or greater;

- conflict with or obstruct implementation of the applicable air quality plan; and/or
- result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Issues Not Discussed Further

Construction-generated Criteria Air Pollutant or Precursor Emissions Exceeding the SMAQMD-recommended Thresholds

Due to the nature of the approved project being a surface mining operations, where there is no distinction between construction and operational phases and activities, the 2016 Final EIR did not evaluate the approved project for impacts related to construction-generated criteria pollutants based on the applicable thresholds at the time. Rather, the 2016 Final EIR evaluated impacts related to operational-generated criteria pollutants associated with implementation of the approved project. For this reason, the 2016 Final EIR did not include a significance determination for this issue area.

As the proposed project is a surface mining operation, there would be no distinction between construction and operational phases and/or activities. For this reason, SMAQMD's construction thresholds would not be applicable to the proposed project and project emissions are instead compared to SMAQMD's operational numerical thresholds (refer to Impact AIR-1 below).

Methodology

The following analysis is based on the findings of the *Air Quality, Health Risk, and Greenhouse Gas Assessment for the Aspen Quarry VIII and IX Use Permit Amendment Project* (Ascent 2025) prepared for the proposed project (Appendix B1). Average annual air pollutant emissions were calculated for the reasonable worst-case conditions based on a combination of methods, including the use of emission factors from EPA, emission rates for equipment from CARB's OFFROAD, and emission rates for worker vehicles from CARB's EMFAC 2021 model (refer to Appendix B1). In determining the level of significance, the analysis assumes that the proposed project would comply with all applicable federal, state, and local laws, ordinances, and regulations.

Specific model assumptions, model inputs, and model outputs can be found in Appendix B1.

IMPACTS AND ANALYSIS

IMPACT AIR-1: RESULT IN A NET INCREASE IN LONG-TERM OPERATIONAL EMISSIONS OF CRITERIA POLLUTANTS AND PRECURSORS (NO_x, ROG, PM_{10}, AND $PM_{2.5}$) EXCEEDING SMAQMD-RECOMMENDED THRESHOLDS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would result in emissions of ROG, NO_X, PM_{10}, and $PM_{2.5}$ that would exceed SMAQMD numerical thresholds (Impact Evaluation AQ-1). The 2016 Final EIR included Mitigation Measures AQ-1.1 and AQ-1.2 to mitigate impacts related to ROG, NO_X, PM_{10}, and $PM_{2.5}$. Mitigation Measure AQ-1.1 requires submission of an equipment inventory to SMAQMD prior to the approval of a Work Authorization Permit in order to demonstrate that heavy-duty (50 horsepower [hp] or more) off-road vehicles will achieve a project-wide fleet average 20 percent NOx reduction, 20 percent ROG reduction and 45 percent particulate reduction compared to the most current CARB fleet average at the time. Mitigation Measure AQ-1.2 requires implementation of BACT and best management practices (BMPs) to reduce particulate matter emissions associated with on- and off-site haul trucks and equipment.

The 2016 Final EIR determined that with implementation of Mitigation Measures AQ-1.1 and AQ-1.2, impacts related to ROG, PM_{10}, and $PM_{2.5}$ emissions would be reduced to less than significant. However, even with application of Mitigation Measures AQ-1.1 and AQ-1.2, the 2016 Final EIR determined that NO_X emissions would continue to exceed SMAQMD thresholds with implementation of the approved project. Therefore, impacts related to NO_X emissions were determined to be significant and unavoidable.

At the time of preparation of this SEIR, the project applicant is continuing to implement Mitigation Measure AQ-1.1 and AQ-1.2 under the approved project.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would expand surface mining operations over 20 years, extending from 2026 to 2045, with final reclamation of the project site to be completed over two years ending in 2047. Surface mining operations primarily involve the use of construction equipment (e.g., graders, crawler tractors, dozers, excavators, off-highway trucks, and haul trucks). Therefore, due to the nature of the project, there is no distinction between construction and operational phases/activities. For this reason, this analysis evaluates project-related air quality impacts as a whole rather than by distinct construction and operational phases as compared to SMAQMD's operational numerical thresholds, similar to the analysis conducted in the 2016 Final EIR for the approved project.

Implementation of the proposed project would result in criteria air pollutant emissions (and precursors) from the use of heavy equipment, such as dozers and excavators. The proposed project would involve extending the existing conveyor belt system to enable the continuous conveyance of material to the existing Perkins Plant, rather than transporting it by trucks on the local roadway system. This would avoid pollutant

emissions related to on-road haul trucks. The proposed project would not result in new employee vehicle trips because the proposed project would not require any additional employees beyond the current nine full-time employees who are onsite at any given time under existing conditions. Thus, the emissions associated with employee commutes have been estimated based on existing conditions.

Table 6-4 summarizes the estimated criteria pollutants emissions that would result from implementation of the proposed project.

Table 6-4: Summary of Maximum Daily and Annual Emissions of Criteria Air Pollutants and Precursors before Implementation of Dust Control

Emission Source	ROG (lb/day)	NO_X (lb/day)	PM_{10} Exhaust (lb/day)	PM_{10} Dust (lb/day)	$PM_{2.5}$ Exhaust (lb/day)	$PM_{2.5}$ Dust (lb/day)	PM_{10} Total (tpy)	$PM_{2.5}$ Total (tpy)
Off-road equipment	17.2	59.2	3.9	<0.1	3.6	<0.1	0.2	0.1
On-road travel (worker trips)	0.2	0.4	0.1	0.1	0.1	<0.1	<0.1	<0.1
On-site fugitive dust	—	—	—	76	—	16	9	2
Total emissions	17.4	59.6	3.9	76	3.6	16	9	2
SMAQMD threshold [a]	65	65	0	—	0	—	0	0
Exceed threshold?	No	No	Yes	—	Yes	—	Yes	Yes

Notes: SMAQMD = Sacramento Metropolitan Air Quality Management District; ROG = reactive organic gases; NOx = oxides of nitrogen; $PM_{2.5}$ = fine particulate matter; PM_{10} = respirable particulate matter; lb/day = pounds/day; tpy = tons per year.

[1] SMAQMD recommends using a 0 lb/day threshold of significance for evaluating surface mining-related emissions of PM_{10} and $PM_{2.5}$ before the implementation of best management practices. Following the implementation of best management practices or the best available control technology, surface mining emissions of PM_{10} are evaluated against a threshold of significance of 80 lb/day, and $PM_{2.5}$ is evaluated against a threshold of significance of 82 lb/day (shown in Table 6-5).

Source: Modeled by Ascent in 2025.

As shown in Table 6-4, emissions of all criteria pollutants are below SMAQMD daily emission thresholds with implementation of the proposed project, with the exception for PM_{10} and $PM_{2.5}$. This exceedance of PM_{10} and $PM_{2.5}$ threshold is due primarily because SMAQMD recommends using a 0 lb/day threshold of significance for evaluating surface mining-related emissions of PM_{10} and $PM_{2.5}$ before application of best management practices. Following application of best management practices or the best available control technology, surface mining emissions of PM_{10} and $PM_{2.5}$ are evaluated against a threshold of significance of 80 lb/day and 82 lb/day, respectively. This exceedance of SMAQMD's PM_{10} and $PM_{2.5}$ thresholds is considered a potentially significant impact.

Similar to the approved project, the proposed project would be required to implement Adopted 2016 Final EIR Mitigation Measure AQ-1.2 to reduce PM_{10} and $PM_{2.5}$ emissions. Table 6-5 summarizes the estimated criteria pollutants emissions that would result from implementation of the proposed project with implementation of Adopted 2016 Final EIR Mitigation Measure AQ-1.2.

However, since ROG and NO_X emissions did not exceed SMAQMD thresholds with implementation of the proposed project (refer to Table 6-4), Adopted 2016 Final EIR Mitigation Measure AQ-1.1 would not be applicable to the proposed project.

Table 6-5: Summary of Maximum Daily and Annual Emissions of Criteria Air Pollutants and Precursors after Implementation of Adopted 2016 Final EIR Mitigation Measure AQ-1.2

Emissions Source	ROG (lb/day)	NO_x (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)	PM_{10} (TPY)	$PM_{2.5}$ (TPY)
Off-road equipment	17.2	59.2	<0.1	<0.1	0.2	0.1
On-road travel (worker trips)	0.2	0.4	0.1	<0.1	<0.1	<0.1
On-site fugitive dust	—	—	34	7	4	1
Total emissions	17.4	59.6	34	7	4	1
SMAQMD Thresholds of Significance	65	65	80	82	14.6	15
Threshold Exceeded?	No	No	No	No	No	No

Notes: ROG = reactive organic gas; NO_X = oxides of nitrogen; PM_{10} = respirable particulate matter; $PM_{2.5}$ = fine particulate matter; lb/day = pounds per day; tpy = tons per year; SMAQMD = Sacramento Metropolitan Air Quality Management District.

[1] SMAQMD recommends using a 0 lb/day threshold of significance for evaluating construction-related emissions of PM_{10} and $PM_{2.5}$ before the implementation of best management practices (shown in Table 6-4). Following the implementation of best management practices and/or the best available control technology, construction emissions of PM_{10} are evaluated against a threshold of significance of 80 lb/day, and $PM_{2.5}$ is evaluated against a threshold of significance of 82 lb/day.

Source: Modeling conducted by Ascent in 2025.

As shown in Table 6-5, with implementation of Adopted 2016 Final EIR Mitigation Measure AQ-1.2, the proposed project would not exceed SMAQMD daily emission thresholds for PM_{10} and $PM_{2.5}$ emissions. Impacts related to criteria pollutants emissions associated with the proposed project would be less than significant with mitigation incorporated, which would reduce impacts compared to the approved project as the proposed project would not result in any daily emissions that would exceed SMAQMD's thresholds (i.e., ROG and NOx emissions under the approved project prior to mitigation; NOx emissions under the approved project with mitigation). That is because the proposed project would use newer and cleaner equipment than previously analyzed for the approved project in the 2016 Final EIR. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR.

This impact would be reduced under the proposed project compared to the approved project and as such, the proposed project's contribution to this impact would not be significant. However, the overall impact would remain **significant and unavoidable** as identified in the 2016 Final EIR because, even with application of Mitigation Measures AQ-1.1 and AQ-1.2, the 2016 Final EIR determined that NO_X emissions would continue to exceed SMAQMD thresholds with implementation of the approved project..

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measures AQ-1.2.

ADOPTED 2016 FINAL EIR MITIGATION MEASURE AQ-1.2: IMPLEMENTATION OF BEST AVAILABLE CONTROL TECHNOLOGY (BACT) AND BEST MANAGEMENT PRACTICES (BMPS) TO REDUCE PM EMISSIONS MITIGATION MEASURE

Implement Basic Construction Emission Control Practices to control PM emission on and off-site, including:

- All disturbed areas on site shall be treated with appropriate dust suppressants, watered regular, vegetated or otherwise treated to minimize fugitive dust. Comply with Zoning Code Section 4.8.14.H.
- Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material off the site and onto public roadways. Any haul trucks that would be traveling along freeways or major roadways should be covered.
- Visible trackout of mud or dirt onto adjacent public roads shall be prevented through the incorporation of rumble strips, gravel aprons, appropriate dust suppressant, long sinuous driveway, or a combination thereof. It these measures are not adequate the applicant shall work with the County and SMQAMD to implement additional measures. If Trackout is present on public roads adjacent to the mine entrances, wet power vacuum street sweepers shall be used to remove any visible trackout mud or dirt.
- Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by California Code of Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site.
- Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.

Implement Enhanced Fugitive PM Dust Control Practices for soil disturbance areas and unpaved roads, including:

Soil Disturbance Areas

- All disturbed areas on site shall be treated with appropriate dust suppressants, watered regularly, vegetated, or otherwise treated to minimize fugitive dust.
- Suspend excavation, grading, and/or demolition activity when wind speeds exceed 20 mph.
- Plant vegetative ground cover (fast germinating native grass seed) in disturbed areas as soon as possible. Water appropriately until vegetation is established.

Unpaved Roads (Entrained Road Dust)

- Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The phone number of the District shall also be visible to ensure compliance.

IMPACT AIR-2: RESULT IN SUBSTANTIAL MOBILE-SOURCE CO CONCENTRATIONS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that vehicle trips generated by the approved project would not result in a level of service (LOS) E or F at any intersection, which allowed the approved project to be screened out of CO emission impacts per SMAQMD guidance regarding project-level CO impact assessment (Impact Evaluation AQ-1). Therefore, the 2016 Final EIR determined impacts related to CO emissions generated by the approved project to be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

CO is a pollutant of localized concern due to its highly dispersive properties and typically only poses a serious risk to health when concentrated to a small area, known as a "hotspot." Impacts from CO hotspots are most commonly associated with roadways and intersections, which experience high traffic volumes in a relatively short amount of time (typically measured on a per-hour basis). Various methods have been used to identify potential impacts associated with CO hotspots occurring from project-generated vehicle trips. Prior to the adoption of SB 743, the CEQA Guidelines were interpreted to require agencies to consider the transportation impacts of proposed projects by the amount of automobile delay caused. Therefore, the LOS standard, which measures the capacity of street intersections, highway interchanges, and roadway segments to accommodate traffic in terms of the delay caused by additional traffic, was commonly used to assess such delay. As the 2016 Final EIR was written prior to the adoption of SB 743, the CO hotspot analysis utilized the LOS method to assess impacts.

Following the transition from LOS to vehicle miles traveled (VMT) for transportation CEQA analyses, this type of report has not been prepared for this SEIR and therefore cannot be used to determine if a CO hotspot would occur from the implementation of the proposed project. Therefore, other methods have been used in this analysis.

One such method, used by the Bay Area Air District[1], implements a screening threshold that states that project-generated traffic that would increase traffic volumes at affected intersections to more than 44,000 vehicles per hour would potentially result in a CO impact and would therefore require further analysis. As noted above, the proposed project would not result in new employee vehicle trips, as the proposed project would

[1] As SMAQMD is silent the issue of screening localized CO impacts, the Bay Area Air District's localized CO screening thresholds were used as proxy thresholds.

not require any additional employees beyond the current nine full-time employees who are onsite at any given time under existing conditions and no materials would be hauled on public roadways. Therefore, implementation of the proposed project would not have the potential to increase traffic volumes at affected intersections to greater than 44,000 vehicles per hour. Furthermore, according to SMAQMD, CO emissions are of lesser concern compared to pollutants such as ROG and NO_X, as operational activities are unlikely to generate substantial quantities of CO, and the SVAB has been in attainment for CO for multiple years. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and overall impacts would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT AIR-3: EXPOSURE OF SENSITIVE RECEPTORS TO TACS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR evaluated impacts related to the exposure of sensitive receptors to emissions of TACs generated by the approved project (Impact Evaluation AQ-2). The analysis concluded that, due to the highly dispersive properties of diesel PM and the distance to the nearest off-site sensitive receptors identified for the approved project, combined with the limitation on heavy equipment usage in the vicinity of nearby residences, it was not anticipated approved project TAC emissions would expose nearby, off-site sensitive receptors to an incremental increase in cancer, chronic, and acute risk that exceeds applicable thresholds. Therefore, the 2016 Final EIR determined the approved project's impacts on sensitive receptors from pollutants to be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would result in emissions of diesel PM from off-road, heavy-duty diesel equipment exhaust used primarily for surface mining activities and other miscellaneous activities during the 20-year of operation. It should be noted that emissions of diesel PM would also occur during localized and final reclamation efforts, although to a much lesser extent and for shorter durations.

The dose to which receptors are exposed is the primary factor used to determine health risks. The dose is a function of the concentrations of a substance or substances in the environment and the duration of exposure to the substance. The dose is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for any exposed receptor. Thus, the risks estimated for an exposed individual are higher if a fixed exposure occurs over a longer period of time. According to the Office of Environmental Health Hazard Assessment, health risk assessments, which determine the exposure of sensitive receptors to TAC emissions, should be based on a 30-year exposure period (OEHAA 2015). However, such assessments should be limited to the period/duration of activities associated with the project.

Consequently, it is important to consider that the use of off-road heavy-duty diesel equipment would be limited to a period of 20 years, with peak daily activity occurring very rarely under extremely favorable market conditions.

Under the acquired permit, the proposed project could be operational for 20 years. During this time period, the site would be excavated by heavy equipment such as scrapers and excavators for the duration of the surface mining phase under the proposed project (i.e., 20 years).

Studies show that diesel PM is highly dispersive, for example, diesel PM emissions dissipate by 70 percent at 500 feet from the source (CARB 2005). The nearest existing off-site sensitive receptor is a residence located approximately 90 feet south of the project boundary. The rest of the sensitive receptors are located more than 700 feet from the project boundary.

A Health Risk Assessment (HRA) was conducted to analyze the potential health risks associated with diesel PM emissions (PM_{10} exhaust as surrogate) from diesel-powered heavy-duty surface mining equipment used within the project site on nearby receptors. This HRA considers the regulatory framework governing TAC generation, the proximity of contaminants to sensitive receptors, the quantity, volume, and toxicity of the contaminants, as well as the likelihood and potential level of exposure. See Appendix B1 for modeling details, including assumptions and calculations. The results of the HRA are summarized in Table 6-6.

Table 6-6: Estimate of Health Risk

Element	Risk Value
Project Maximum Incremental Cancer Risk	7.09 chances in 1 million
Cancer Risk Threshold	10 chances in 1 million
Exceed Thresholds?	No
Project Chronic Hazard Index	0.02
Hazard Index Threshold	1.0
Exceed Thresholds?	No

Source: Modeling conducted by Ascent in 2025.

As shown in Table 6-6, diesel PM emissions generated by the proposed project would result in a maximum increased cancer risk of approximately 7 chances in one million at the maximally exposed individual resident (the nearest sensitive receptor located 90 feet south of the project boundary), which is below the SMAQMD cancer risk threshold of 10 chances in 1 million. In addition, the maximum chronic hazard index is estimated to be 0.2 with implementation of the project, which is below the SMAQMD threshold of 1.0. Implementing the proposed project would not result in the exposure of nearby residential receptors to TAC-related health risks that exceed thresholds of significance for cancer risk or chronic risk. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's

contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT AIR-4: CONFLICT WITH AN AIR QUALITY PLAN

2016 FINAL EIR DETERMINATION

In 2018, the State CEQA Guidelines were comprehensively updated, which added and revised the air quality thresholds stated in Appendix G. As part of that update, this threshold was added to the air quality issue area, which requires public agencies to evaluate and mitigate a project's potential impacts related to conflicting with an applicable air quality plan.

Because the 2016 Final EIR was certified prior to this threshold being included as a CEQA issue, the 2016 Final EIR did not evaluate the approved project's potential to result in impacts related to conflicting with an applicable air quality plan. As such, the 2016 Final EIR did not provide a significance determination for the approved project as it related to this threshold.

However, while the 2016 Final EIR did not specifically address the approved project's potential to conflict with an air quality plan, the 2016 Final EIR determined that NO_X emissions would exceed SMAQMD thresholds despite the application of Mitigation Measure AQ-1.1 (Impact Evaluation AIR-1). At the time of the certification of the 2016 Final EIR, the *1994 Sacramento Area Regional Ozone Attainment Plan* and the *2009 Eight-Hour Ozone Attainment and Reasonable Further Progress Plan* were the most current air quality plans and thus were applicable to the project. Ozone is formed through complex chemical reactions between precursor emissions of ROG and NO_X in the presence of sunlight. Thus, by exceeding SMAQMD's numerical thresholds for NO_x, the approved project would have conflicted with the *1994 Sacramento Area Regional Ozone Attainment Plan* and the *2009 Eight-Hour Ozone Attainment and Reasonable Further Progress Plan* and its goal to attain the federal one-hour and eight-hour ozone standards, respectively. At the time of the certification of the 2016 Final EIR, the first *10-year PM_{10} Maintenance Plan for Sacramento County* was an applicable air quality plan and became effective on October 28, 2013. Impact AQ-1 of the 2016 Final EIR determined that with application of SMAQMD's BACT/BMPs (Mitigation Measure AQ-1.2), the approved project's particulate matter emissions would not exceed SMAQMD thresholds. Thus, the approved project would not have conflicted with the particulate matter emissions maintenance goals of the First *10-year PM_{10} Maintenance Plan for Sacramento County*.

Because the approved project exceeded SMAQMD's numerical thresholds for NO_x despite the application of Mitigation Measure AQ-1.1, the approved project would have conflicted with the *1994 Sacramento Area Regional Ozone Attainment Plan* and the *2009 Eight-Hour Ozone Attainment and Reasonable Further Progress Plan.*

PROPOSED PROJECT IMPACT EVALUATION

Sacramento County is currently in nonattainment for ozone and $PM_{2.5}$ relative to the NAAQS and for ozone and PM_{10} relative to the CAAQS. The most current air quality attainment plans adopted by SMAQMD are the *2023 Sacramento Regional Plan for the 2015 70 ppb 8-Hour Ozone Standard*, adopted in October 2023, and the 2020 Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS). The 2020 MTP/SCS was adopted on November 18, 2019.

The emissions inventories used to develop these plans are primarily based on projected population and employment growth, as well as associated VMT, for the SVAB. Estimates of this regional growth are based in part on the planned growth identified in regional and local land use plans such as general plans or distinct area plans. Therefore, projects that would result in population and/or employment growth beyond that projected in regional or local plans could result in increases in VMT exceeding that forecasted in the attainment plans, in turn resulting in mobile-source emissions that could conflict with or obstruct implementation of the air quality plans. Increases in VMT beyond that projected in the County's General Plan, SACOG's regional VMT modeling, and SMAQMD regional air quality plans generally would be considered to have a significant adverse incremental effect on the SVAB's ability to attain the NAAQS and CAAQS for all criteria air pollutants.

The proposed project would not induce growth, as it would utilize existing employees and therefore would not increase the population or employment. Further, the proposed project does not propose a change in land uses, as all assessor's parcel numbers within the project site are zoned for surface mining (SM), which indicates that these parcels have been determined by the County to be appropriate for surface mining with the grant of a mining use permit. Due to the existing SM zoning designation, the proposed project does not require any rezoning. Because the proposed project would not induce growth and would not result in a change in land use type, emissions from the proposed project would not exceed those accounted for in the *2023 Sacramento Regional Plan for the 2015 70 ppb 8-Hour Ozone Standard* or SACOG's MTP/SCS.

As discussed above in Section, "Regulatory Setting," the second *10-year PM_{10} Maintenance Plan for Sacramento County* became effective on April 15, 2024 and demonstrates Sacramento County's plan to maintain the 24-hour PM_{10} NAAQS Sacramento County as the second of two consecutive 10-year maintenance periods required by the CAA Section 175A to be reclassified as being in attainment for the PM_{10} NAAQS. As discussed in Impact AIR-1 and shown in Table 6-5, implementation of the proposed project would not exceed SMAQMD criteria pollutants emissions thresholds with implementation of Adopted 2016 Final EIR Mitigation Measure AQ-1.2, which enable the use of SMAQMD's non-zero thresholds for particulate matter emissions. Thus, implementation of the proposed project would not conflict with Sacramento County's plan to maintain the PM_{10} NAAQS.

As demonstrated above, with implementation of Adopted 2016 Final EIR Mitigation Measure AQ-1.2, the proposed project would not conflict with Sacramento County's plan to maintain the PM_{10} NAAQS and would not obstruct Sacramento County's Plan to attain the 2015 70 ppb 8-Hour ozone standard. Therefore, the proposed project

would not conflict with any applicable air quality plans. Impacts would be **less than significant with mitigation**.

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measures AQ-1.2 as described in Impact AIR-1 above.

IMPACT AIR-5: EXPOSURE TO ODORS AFFECTING A SUBSTANTIAL NUMBER OF PEOPLE

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that odors associated with implementation of the approved project would be temporary and would not be generated at any one location for an extended period as equipment and trucks would be moving throughout the approved project site, where diesel exhaust would dissipate rapidly from the source with an increase in distance (Impact Evaluation AQ-3). Thus, the 2016 Final EIR determined impacts related to odors would be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

The predominant source of power for construction equipment is diesel engines. Exhaust odors from diesel engines may be considered offensive to some individuals. The generation of these odor emissions would vary depending on the type of surface mining activity and equipment being used each day of operation. Minor odors from the use of heavy-duty diesel equipment would be intermittent and temporary and would dissipate rapidly from the source with an increase in distance. Given the large size of the project site pared with the dispersion properties of diesel PM, implementation of the proposed project would exposure odors to a substantial number of people. In addition, implementation of the proposed project would continue surface mining and reclamation activities already occurring at the approved project site, where odors would be similar.

Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

7 AIRPORT COMPATIBILITY

INTRODUCTION

This chapter evaluates the potential impacts related to airport compatibility resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (project). It describes the existing setting of Mather Airport, the closest airport to the project site; discusses the applicable federal, state, and local regulations and policies related to airport operations and compatibility; and assesses the potential for the proposed project to result in impacts related to airport compatibility.

The analysis in this chapter is based on the analyses and findings of the *Aspen VIII & IX Mining Use Permit Amendment Wildlife Hazard Analysis* (Conservation Research and Planning [CRP] 2024) prepared for the proposed project, presented in Appendix C.

No comments regarding airport compatibility were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, “Project Description,” the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

For development near airports, special considerations are taken into account for potential land use conflicts related to airport operations and the surrounding uses, as described in greater detail below. The nearest airport to the project site is Mather Airport, which is located approximately 2 miles northeast of the Aspen VIII Expansion Area and approximately 3 miles northeast of the Aspen IX Expansion Area.

As identified by the Federal Aviation Administration (FAA) guidance, the Aspen VIII Expansion Area is located inside the 10,000-Foot Critical Zone Buffer (critical zone buffer) for aircraft hazards while the Aspen IX Expansion Area is located outside of the critical zone buffer but within the 5-mile-radius buffer (CRP 2024).

Airport Land Use Compatibility Planning

Airport land use compatibility plans (ALUCPs), formerly called comprehensive land use plans (CLUPs), include policies and regulations to address the issues of airport noise and safety, with the intent of protecting airport operations from encroachment by incompatible land uses, as well as protecting citizens on the ground from the impacts of excessive noise and the potential for aircraft accidents. Under provisions of the California Public Utilities Code, Chapter 4, Article 35, Section 21670.1, Airport Land Use Commission Law, the Sacramento Area Council of Governments (SACOG) has been designated the Airport Land Use Commission (ALUC) for Sacramento, Sutter, Yolo, and Yuba Counties.

ALUCPs and CLUPs regulate land use in three major areas: safety zones, noise zones, and height restrictions, which are defined below. Due to its proximity to Mather Airport, the project site is subject to the safety zones, noise contours, and height restrictions established in the Mather Airport ALUCP, as described below in the “Regulatory Setting” section.

Safety Zones

The probability of airplane accidents is highest in the immediate vicinity of airports. Consequently, safety zones are delineated around airports and restrict land use. The densities of land uses allowed in these zones are inversely related to probability of an accident in the zone.

Noise Contours

Aircraft noise is one of the primary motivators for land use compatibility planning. Typically, the sound of aircraft operations is the most recognizable issue for people living and working in the vicinity of an airport. Depending on the size of the airport and the types of aircraft it accommodates, aircraft noise can be experienced over large areas.

The community noise equivalent level (CNEL) is used to describe noise exposure cumulatively for an annual-average day of aircraft operations. The annual-average day represents all aircraft operations for every day in a year divided by 365, the number of days in a year. This is intended to represent a typical day of operations within a study year. The CNEL for this annual-average day is calculated by mathematically combining the number of single noise events that occur during this period (24 hours) with how loud the events were and what time of day they occurred. The CNEL metric addresses the fact that noise events occurring after 7:00 p.m. and before 7:00 a.m. are considered more intrusive by adding noise penalties. The penalized time period is further subdivided into evening (7:00 p.m. through 9:59 p.m.) and nighttime (10:00 p.m. to 6:59 a.m.). CNEL treats every evening operation as though it were three operations and every nighttime operation as though it were ten operations. This “weighting” adds a 4.77 decibel (dB) penalty during the evening hours and a 10 dB penalty during the nighttime hours.

Noise that emanates away from airstrips and airplane flight paths is represented by concentric noise contours around the airport referred to as Theoretic Capacity Noise Contours. The contours delineate zones where land use is restricted, protecting citizens

from the detrimental effects of exposure to excessive airplane noise. The contours are constructed using FAA approved modeling. The actual noise levels around an airport are a function of the number, time of day, and frequency of operations of each aircraft type. Noise levels are also influenced by the variations in monthly and seasonal flight schedule changes by the airlines. The contours are used to determine compatible land uses around the airport.

Height Restrictions

Buildings surrounding airports are prohibited from intruding into aircraft airspace except when permitted by the California Department of Transportation, Division of Aeronautics. Compliance with the height restrictions is tested by comparing the height of proposed projects with an imaginary surface surrounding each airport.

Mather Airport

Mather Airport is located within the unincorporated area of Sacramento County. The airport is 2,239 acres in size and the airport elevation is 98.3 feet above mean sea level (AMSL) (SACOG 2022). Mather Airport is surrounded by a mix of residential, commercial, industrial, and open space land uses, including the Mather Preserve. The airport was originally established in 1918 as Mather Air Force Base, as a military base and pilot training school. The base went through a series of changes but continued to operate under the military until 1988 when the US Department of Defense decided to close it. The property was transitioned via lease to Sacramento County and officially reopened in May 1995 as Mather Airport, a civilian airport. In 2012, the property was purchased by Sacramento County. However, the airport continues to receive federal funding and limited military use continues.

Mather Airport includes two parallel runways that are situated in a southwest-northeast orientation and supports two helipads (North Helipad and South Helipad) located adjacent to the runways (SACOG 2022). The northern of the two runways is 6,040 feet long and 150 feet wide (a planned runway extension would increase the overall length of to 7,178 feet); and the southern runway is 11,301 feet long and 150 feet wide (SACOG 2022). Mather Airport accommodates the United Parcel Service for cargo services; regional general aviation demand, including corporate general aviation and recreational general aviation; and air taxis. Mather Airport's general aviation aircraft are primarily used for corporate, government, and recreational purposes (SCDA 2013).

According to the Mather Airport airline landing statistics, Mather Airport saw 3,282 landings in 2019; 3,337 landings in 2020; 3,266 landings in 2021; 3,155 landings in 2022; 3,029 landings in 2023, and 1,469 landings in the first six months of 2024 (SCDA 2024). Mather Airport typically receives between 240 to 275 landings a month, with the majority of these being cargo planes. December typically has increased landings (325 to 450 landings) (SCDA 2024). The majority of cargo operations occur during the evening and early morning hours at low-level overflights. Military operations consist of touch and go (take-off and landing operations), in which Air Force T-38 jet fighters are used. These aircraft are small, single-engine supersonic aircraft, which are quite loud. Touch and go operations occur at low level flight decks generally between 1,500 and 3,500 feet.

Approximately 88 percent of all aircraft operations occur on the southern runway. Flights can take various flight paths depending on a variety of factors.

MATHER AIRPORT LAND USE PLANNING

The Mather Airport ALUCP was adopted by SACOG in August 2022 and replaces the Mather Airport CLUP adopted by SACOG in May 1997. The updated ALUCP is based on the Mather Airport 2013 Revised Draft Master Plan and the FAA-approved 2014 Airport Layout Plan prepared by the Sacramento County Department of Airports. The 2013 Revised Draft Master Plan was not formally adopted.

The Mather Airport ALUCP provides land use compatibility guidelines and establishes planning boundaries for safety zones (Figure 7-1), noise (Figure 7-2), and height restrictions (Figure 7-3).

The specific policies in the ALUCP are focused around four compatibility factors. These factors include:

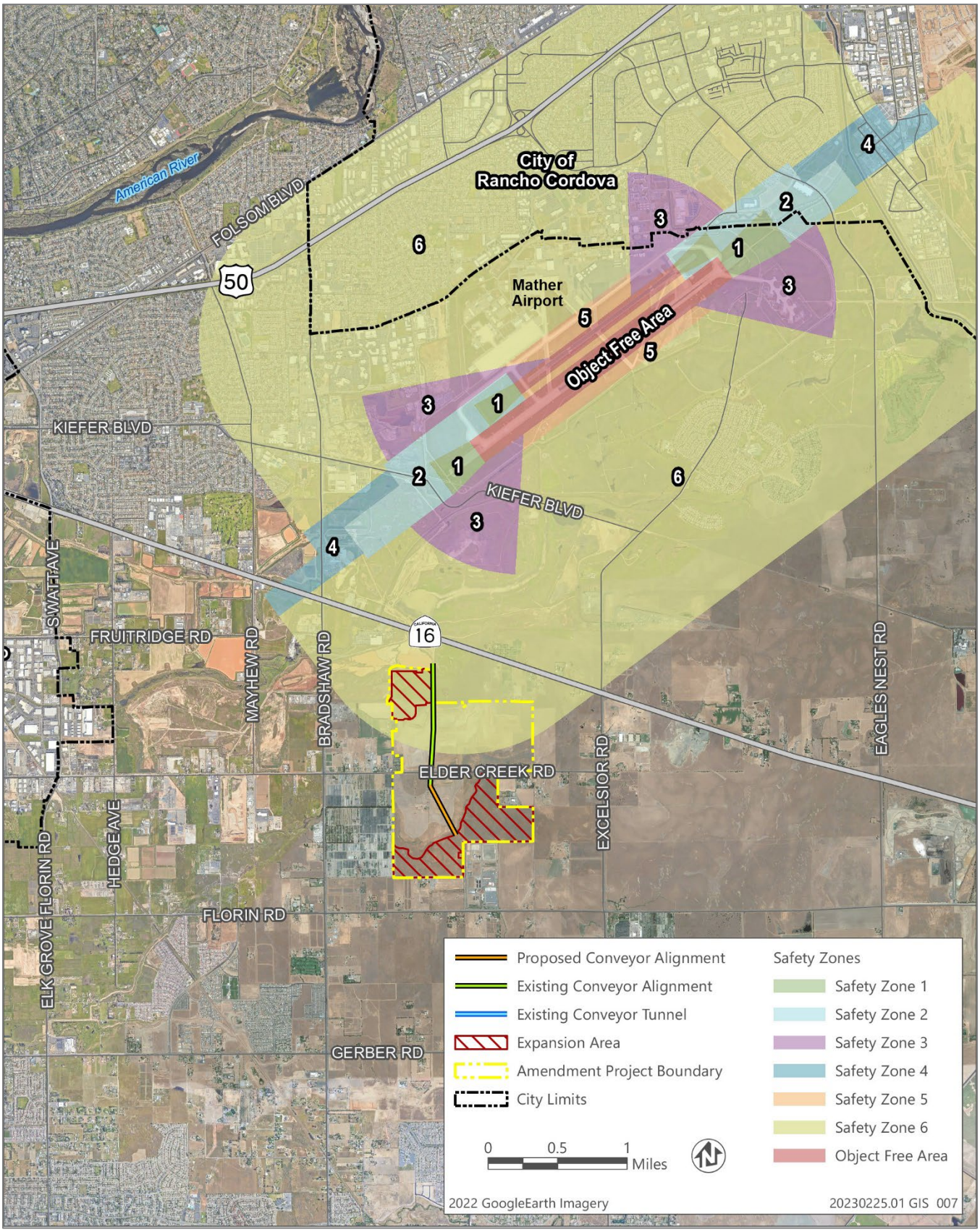
Noise – The aircraft noise policies promote the goals of the California Airport Noise Standards (California Code of Regulations, Title 21, Section 5000 et seq.) and the California Noise Insulation Standards (25 California Administrative Code Section 1092) by avoiding the establishment of noise-sensitive land uses in areas around the Airport that are exposed to significant levels of aircraft noise.

Safety – The safety policies minimize the potential number of future residents and land use occupants exposed to hazards related to aircraft operations such as aircraft accidents.

Airspace Protection – The airspace protection policies maintain the safe and efficient operation of the airspace around the airport by avoiding potential hazards to aircraft in flight and protecting the navigable airspace around the Airport consistent with the requirements of 14 Code of Federal Regulations Part 77, Safe, Efficient Use and Preservation of the Navigable Airspace, FAA Order 8260.3B, United States Standard for Terminal Instrument Procedures, and other relevant federal regulations.

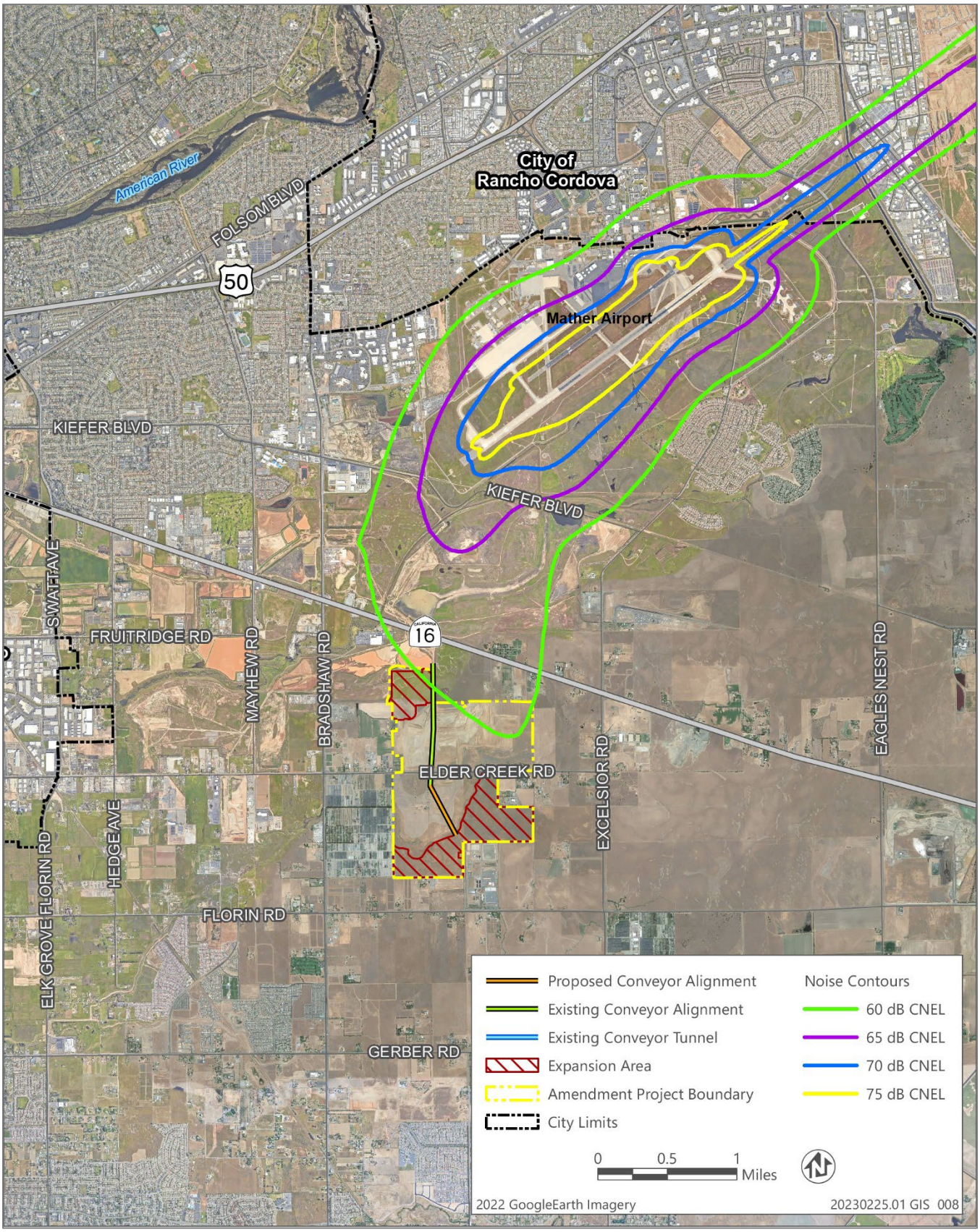
Overflight Notification – The overflight notification policies address issues related to aircraft overflights by identifying the area within which flights to and from the airport occur frequently enough and at a low enough altitude to be noticeable by sensitive residents. Within this area, real estate disclosure notices are required, pursuant to state law (California Business and Professions Code Section 11010 and California Civil Code, Sections 1102.6 and 1103.4).

The airport land use compatibility policies and criteria in the ALUCP apply only to new development. Under State law, the ALUC has no jurisdiction over existing development, except for nonconforming uses that are proposed for expansion or redevelopment. The ALUCP is discussed in greater detail below.



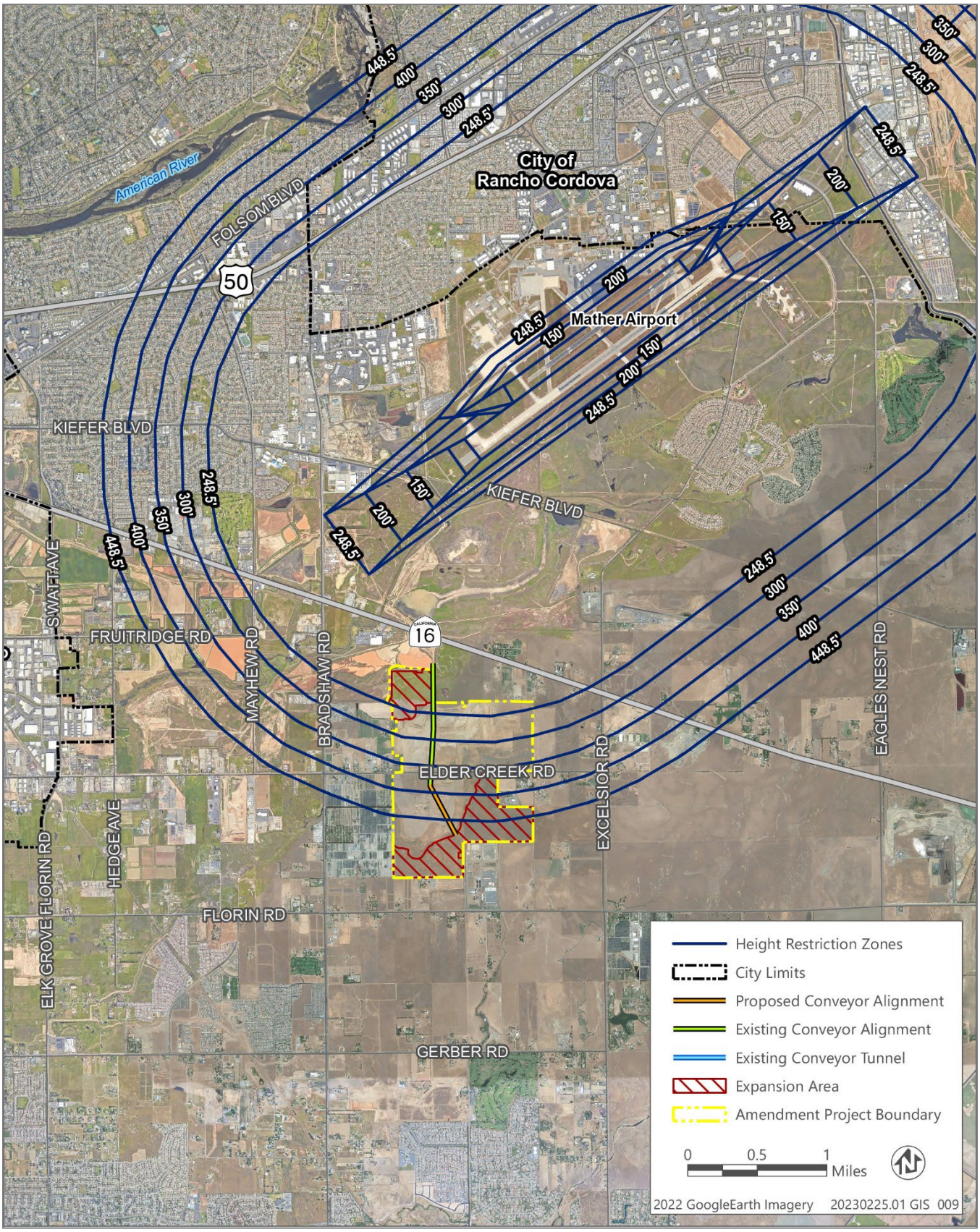
Source: Data received from Sacramento County in 2024 from SACOG; adapted by Ascent in 2025.

Figure 7-1: Mather Airport Safety Zones



Source: Data downloaded from SACOG in 2023; adapted by Ascent in 2025.

Figure 7-2: Mather Airport Theoretic Capacity Noise Contours



Source: Adapted from the County of Sacramento in 2024; adapted by Ascent in 2025.

Figure 7-3: Mather Airport Height Restrictions

REGULATORY SETTING

FEDERAL

FEDERAL AVIATION ADMINISTRATION REGULATIONS

Federal Regulation Title 14 Part 77 establishes standards and notification requirements for objects affecting navigable airspace. Notification serves as the basis for FAA to:

- evaluate the effect of the construction or alteration on operating procedures,
- determine the potential hazardous effect of the proposed construction on air navigation,
- identify mitigating measures to enhance safe air navigation, and
- chart new objects.

Notification allows the FAA to identify potential aeronautical hazards in advance, thus preventing or minimizing the adverse impacts to the safe and efficient use of navigable airspace. Any person or organization who intends to sponsor any of the following construction or alterations must notify the Administrator of the FAA:

- any construction or alteration exceeding 200 feet above ground level;
- any construction or alteration:
    - within 20,000 feet of a public use or military airport which exceeds a 100:1 surface from any point on the runway of each airport with at least one runway more than 3,200 feet,
    - within 10,000 feet of a public use or military airport which exceeds a 50:1 surface from any point on the runway of each airport with its longest runway no more than 3,200 feet,
    - within 5,000 feet of a public use heliport which exceeds a 25:1 surface;
- any highway, railroad or other traverse way whose prescribed adjusted height would exceed that above noted standards;
- when requested by the FAA; and
- any construction or alteration located on a public use airport or heliport regardless of height or location.

WILDLIFE ATTRACTANTS

The FAA provides guidance on certain land uses that have the potential to attract hazardous wildlife on or near public-use airports. The FAA also requires airports that receive Federal grant-in-aid assistance, such as Mather Airport, to utilize these

guidelines for projects within their boundaries. Moreover, it recommends that land use planners and project developers use the FAA's guidance for privately owned or initiated projects on or near airports.

On February 21, 2020, the FAA released a revised *Advisory Circular for Hazardous Wildlife Attractants On or Near Airports* (AC 150/5200-33C, replacing AC 150/5200-33B) that provides guidance on certain land uses that have the potential to attract hazardous wildlife on or near public-use airports. It also discusses airport development projects (including airport construction, expansion, and renovation) affecting aircraft movement near hazardous wildlife attractants. The Advisory Circular, among other things, addresses stormwater detention facilities as potential hazardous wildlife attractants. According to the FAA, all stormwater facilities located within 10,000 feet of all airports' operations areas must drain within 48 hours of the design storm. Furthermore, for a 5-mile radius (nearly 20 square miles) the Advisory Circular discourages hazardous wildlife attractants, including detention basins that do not drain within 48 hours (FAA 2020).

State

State Airport Land Use Policy

The State of California regulates airports under the authority of the Airport Land Use Commission Law, Chapter 4, Article 3.5, California Public Utilities Code. The objectives of the Airport Land Use Commission Law are to:

- protect public health, safety, and welfare through the adoption of land use standards that minimize the public's exposure to safety hazards and excessive levels of noise; and
- prevent the encroachment of incompatible uses around public-use airports, thereby preserving the utility of these airports into the future.

Under the provisions of the law, the ALUC is required to prepare an ALUCP for each public airport within its jurisdiction. The ALUCP or CLUP must be based on either a 20-year master plan or an airport layout plan if the Caltrans Division of Aeronautics decides that the existing airport layout plan is adequate for use in ALUCP/CLUP preparation.

State law requires that General Plans be made consistent with adopted ALUCPs and/or CLUPs. Consistency can be achieved through either of the following actions:

- Amending general/community plan elements and other land use regulations, where necessary, to be consistent with the ALUCP/CLUP, or prevent the encroachment of incompatible uses around public-use airports, thereby preserving the utility of these airports into the future; or
- In the event the Board of Supervisors does not agree with a provision of the plan, it can satisfy the consistency requirement for that provision by overruling the ALUC by a two-thirds vote. The overruling must, however, be made after a public

hearing and must be based on specific findings that the proposed actions are consistent with the purposes of the Airport Land Use Commission Law.

Once consistency is achieved between the ALUCP/CLUP and County land use controls through either of the above two methods, State law requires that certain types of projects be referred to the ALUC for a determination of their consistency with an adopted ALUCP/CLUP. Such projects include amendments to the 2030 General Plan, or a community plan, and adoption or amendments to zoning ordinances that affect an area within an airport planning boundary as established by an ALUCP/CLUP. If the ALUC determines the project to be inconsistent, the County may overrule the ALUC by a two-thirds vote, again after a public hearing, and based on specific findings.

LOCAL

MATHER AIRPORT LAND USE COMPATIBILITY PLAN

The Mather Airport ALUCP was adopted by SACOG in August 2022. The ALUCP established new safety zones, noise contours, and height restrictions for Mather Airport. Sacramento County subsequently amended its General Plan Land Use and Noise Elements to incorporate the updated Mather Airport ALUCP, including the new safety zones and noise contours. The General Plan Amendments were adopted in December 2022.

MATHER AIRPORT SAFETY ZONES

Consistent with State airport land use policy as described above, the purpose of having safety zones is to minimize the number of people exposed to hazards related to aircraft operations and accidents. Figure 7-1 depicts the adopted safety zones for Mather Airport. The Aspen VIII Expansion Area is located within Safety Zone 6, which is the Airport Traffic Pattern Zone. The Aspen IX Expansion Area is located outside of the Mather Airport safety zones. The Mather Airport ALUCP identifies mining activities, including short-term borrow mining and surface mining, as compatible uses in Safety Zone 6 (SACOG 2022: Table 4-2).

MATHER AIRPORT NOISE CONTOURS

Noise generated from aircraft operations can be bothersome to the public. The Mather Airport ALUCP defines airport noise contours and land uses that are incompatible with noises 60 CNEL or above. Therefore, the Mather Airport ALUCP has restricted uses within the 60-75+ CNEL noise contours to minimize the number of people exposed to bothersome noise from aircraft operations. Uses outside of these contours are not restricted.

As shown in Figure 7-2, a portion of the Aspen VIII Expansion Area is located within the Mather Airport 60 dB CNEL noise contour line, which generally prohibits certain types of sensitive land uses such as homes and schools. The Mather Airport ALUCP identifies mining activities (e.g., short-term borrow mining and surface mining) and open space as compatible land uses within the 60-65 dB and 65-70 dB CNEL noise contour lines (SACOG 2022: Table 4-1).

MATHER AIRPORT HEIGHT RESTRICTIONS

According to the Mather Airport ALUCP, height standards for defining obstructions to air navigation are established by the FAA and are defined in the Federal Aviation Regulation (FAR) Part 77, *Objects Affecting Navigable Airspace*. The Mather Airport ALUCP further discusses the need for height restrictions as follows:

> Height restrictions are necessary to ensure that objects will not impair flight safety or decrease the operational capability of the airport. FAR Part 77 defines a series of imaginary surfaces surrounding airports. Any object or structure which would penetrate any of these imaginary surfaces is considered by the FAA to be an obstruction of air navigation.

As shown in Figure 7-3, the Aspen VIII Expansion Area and the northern portion of the Aspen IX Expansion Area would be subject to various height restrictions, which restrict building heights ranging from 248.5 feet to 448.5 feet depending on location.

SACRAMENTO COUNTY 2030 GENERAL PLAN

The following 2030 General Plan policy is applicable to the proposed project (Sacramento County 2022):

- **Policy LU-87.** Because land use decisions around airports by local governments have a direct impact on an airport's long-term viability and utility, proposed new land use projects and land use practices near airports within Sacramento County shall consider consistency with current federal, State, and local airport land use compatibility regulations, orders, policies, plans, standards and guidance pertaining to public safety and minimization of hazardous wildlife attractants within five statute miles of County airports.

COMMUNITY PLANS

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project as the project site is located within the plan area.

VINEYARD COMMUNITY PLAN

The Vineyard Community Plan was developed in 1985 and provides guidance for growth and development in the community plan area. The following Vineyard Community Plan policy applies to the proposed project (Sacramento County 1985):

- **Policy CI 5.** Employment intensive industrial/commercial development will be opposed within the Mather Air Force Base accident potential zones (APZs).

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

An impact on airport compatibility would be significant if implementation of the proposed project would:

- result in a safety hazard for people residing or working in the vicinity of an airport/airstrip;
- expose people residing or working in the project area to aircraft noise levels in excess of applicable standards;
- result in a substantial adverse effect upon the safe and efficient use of navigable airspace by aircraft; or
- result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks.

The California Supreme Court concluded in *California Building Industry Association v. Bay Area Air Quality Management District*, (2015) 62 Cal.4th 369, 377-378, “agencies subject to CEQA generally are not required to analyze how existing environmental conditions will impact a project’s future users or residents. But when a proposed project risks exacerbating those environmental hazards or conditions that already exist, an agency must analyze the potential impact of such hazards on future residents or users. In those specific instances, it is the project’s impact on the environment—and not the environment's impact on the project—that compels an evaluation of how future residents or users could be affected by exacerbated conditions.” With this ruling, the impact of existing conditions on a project is not considered an impact requiring consideration under CEQA, unless the project could exacerbate an existing environmental hazard, or the lead agency elects to provide the analysis.

ISSUES NOT DISCUSSED FURTHER

CHANGE IN AIR TRAFFIC PATTERNS

The 2016 Final EIR determined that implementation of the approved project would not change air traffic patterns and would not increase air traffic or cause a location change that would result in safety risks. Therefore, the 2016 Final EIR determined that implementation of the approved project would not result in impacts related to causing a change in air traffic patterns and as such, detailed analysis of this resource area was not warranted (Impact Evaluation AC-4).

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres on the adjacent Aspen VIII and IX Expansion Areas (i.e. project site). Therefore, the proposed project would be located on the adjacent property to the approved project site that was evaluated in the 2016 Final EIR. The proposed project would not alter air traffic patterns because the proposed project would continue surface mining and reclamation activities similar to

existing conditions under the approved project and would comply with all applicable FAA and Mather Airport ALUCP requirements, including height restrictions. Furthermore, the proposed project would not construct or operate a new private airstrip, which could introduce new air traffic into the Mather Airport airspace. Therefore, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

METHODOLOGY

The following analysis is based on the findings of the *Aspen VIII & IX Mining Use Permit Amendment Wildlife Hazard Analysis* (CRP 2024) prepared for the proposed project (Appendix C) as well as on a review of applicable regulations and planning documents, including the *FAA Advisory Circular for Hazardous Wildlife Attractants On or Near Airports* (AC 150/5200-33C) and the Mather Airport ALUCP (SACOG 2022).

IMPACTS AND ANALYSIS

IMPACT AC-1: RESULT IN A SAFETY HAZARD TO PEOPLE LIVING AND WORKING IN THE VICINITY OF AN AIRPORT

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would not result in a safety hazard for people residing or working in the vicinity of Mather Airport because the surface mining activities would occur at the extreme edge of the airport's Overflight Zone (i.e., the Overflight Zone extends approximately 300 feet into the northeast portion of the Aspen VIII mining area while the Aspen IX mining area is completely outside) and only a limited number of miners would be at the site. Therefore, the 2016 Final EIR determined impacts would be less than significant (Impact Evaluation AC-3).

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. As discussed above in the "Environmental Setting," the Aspen VIII Expansion Area is located within the Mather Airport Safety Zone 6, while the Aspen IX Expansion Area is located outside of any designated airport safety zones (refer to Figure 7-1). Implementation of the proposed project would continue surface mining and reclamation activities similar to existing conditions under the approved project and would comply with all applicable FAA and Mather Airport ALUCP requirements. In addition, the Mather Airport ALUCP identifies mining activities, including short-term borrow mining and surface mining, as compatible uses in Safety Zone 6 (SACOG 2022: Table 4-2). Because the proposed project would be consistent with the uses allowed in Safety Zone 6, the proposed project would not

create substantial safety hazards to people living and working in the vicinity of an airport. Once surface mining activities have been completed, the project site would be reclaimed to open space grassland in accordance with the requirements of the Amended Reclamation Plan. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT AC-2: RESULT IN EXPOSURE TO EXCESSIVE NOISE LEVELS ASSOCIATED WITH AIRPORT OPERATIONS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR noted that the approved project site is located in in both the 50-55 CNEL and 55-60 CNEL noise contours emanating from Mather Airport. Pursuant to General Plan Policy NO-2, mining and quarrying are compatible uses where aircraft noise levels are less than 70 CNEL. Therefore, the 2016 Final EIR determined that due to the approved project's location, the approved project is compatible with the airport noise standards of the General Plan. Thus, impacts would be less than significant (Impact Evaluation AC-1).

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres. The northeastern portion of the Aspen VIII Expansion Area would be located within the CNEL 60 zone, while the Aspen IX Expansion Area would be located outside of any designated noise contour for the Mather Airport (refer to Figure 7-2). Implementation of the proposed project would continue surface mining and reclamation activities similar to existing conditions under the approved project and would comply with all applicable FAA and Mather Airport ALUCP requirements. In addition, the Mather Airport ALUCP identifies mining activities, including short-term borrow mining and surface mining, as compatible uses within the 60-65 dB and 65-70 dB CNEL noise contour lines (SACOG 2022: Table 4-1). Because the proposed land uses are compatible with the Mather Airport noise standards, the project would not expose people residing or working in the project area to aircraft noise levels in excess of applicable standards. Once surface mining activities have been completed, the project site would be reclaimed to open space grassland in accordance with the requirements of the Amended Reclamation Plan. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT AC-3: RESULT IN EFFECTS ON SAFE AND EFFICIENT USE OF NAVIGABLE AIRSPACE

2016 FINAL EIR DETERMINATION

The 2016 Final EIR analyzed the impacts related to the safe and efficient use of navigable airspace by aircraft, which included an assessment of navigable airspace, ground fog, and bird airstrike hazards. The 2016 Final EIR determined that implementation of the approved project would not result in a substantial adverse effect upon the safe and efficient use of navigable airspace by aircraft as the approved project would not include construction of any permanent structures and the electric conveyor would not be over 50 feet in height when raised; not cause any additional adverse ground fog hazards for aircraft; and would reduce the number of hazardous species that fly at high altitudes due to the elimination of extensive irrigated agricultural lands in the vicinity of the airport. Therefore, the 2016 Final EIR determined impacts would be less than significant (Impact Evaluation AC-2).

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. The assessment of the proposed project's potential to impact navigable airspace, ground fog, and bird airstrike hazards is provided below.

HEIGHT RESTRICTIONS

As shown in Figure 7-3, the Aspen VIII Expansion Area and the northern portion of the Aspen IX Expansion Area would be subject to various height restrictions, which restrict building heights ranging from 248.5 feet to 448.5 feet depending on location. Similar to the approved project, the proposed project would not construct any permanent structures onsite and would continue to use the existing conveyor belt system to transport aggregate material to the existing Perkins Facility as well as the existing temporary office/employee and security trailers and mobile restroom facilities (i.e., "port-o-potties"). Implementation of the proposed project would establish a new site access point, consisting of a parking lot and staging area, along Knox Road to allow employees to access the Aspen IX Expansion Area. Construction equipment used for surface mining and/or reclamation activities for the proposed project would be similar to those used currently onsite for the approved project, which comply with FAA and the Mather Airport ALUCP requirements.

Once surface mining activities have been completed, the parking lot, staging area, conveyor system, and all temporary structures would be removed and the project site would be reclaimed to open space grassland, irrigated pasture suitable for grazing, and

stormwater retention pond areas in accordance with the requirements of the Amended Reclamation Plan. Therefore, the proposed project would not result in any new permanent structures that would exceed building height restrictions and thus affect navigable airspace.

BIRD STRIKE HAZARDS

Navigable airspace can be adversely affected by project features that could attract wildlife causing bird strike hazards. The Mather Airport ALUCP includes regulations and guidelines to limit the potential of wildlife hazards, such as bird strikes. Additionally, the FAA has established regulations and policies addressing land uses with potential to attract hazardous wildlife on and near airports.

Consistent with FAA regulations, the *Aspen VIII & IX Mining Use Permit Amendment Wildlife Hazard Analysis* (2024 WHA) (CRP 2024) was prepared for the proposed project to evaluate whether implementation of the proposed project would increase the risk of bird-aircraft collisions. The 2024 WHA was prepared based on review of the wildlife hazard analyses prepared for the approved project and 2016 Final EIR (2014 WHA) and the West Jackson Highway Master Plan Project (2023 WHA). The analysis focused on 18 species or species groups considered to pose the greatest risk to aircraft (potentially hazardous bird species), identified as hazardous in the 2014 WHA. Results of the 2024 WHA are summarized below.

The 2024 WHA considered the following contributing factors to hazard levels:

- changes in habitat conditions,
- changes in on-site bird populations,
- aircraft flight volumes and heights and heights of past bird-aircraft collisions,
- flight heights of potentially hazardous species, and
- potential for creation of bird flight paths to and from project lands in the path of aircraft (synergistic effects).

CHANGES IN HABITAT CONDITIONS

The proposed Aspen VIII and IV Expansion Areas currently support mixed annual grassland/seasonal wetland habitat. Implementation of the proposed project would amend the existing Mining Use Permit and Reclamation Plan to permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing permit, which ends in 2031. Implementation of the proposed project would remove existing annual grassland/seasonal wetland habitat with surface mining activities over the next approximately 20 years. During surface mining operations, the project site would be highly disturbed and with localized reclamation efforts to stabilize slopes and exposed areas in accordance with the Amended Reclamation Plan. Following completion of surface mining, the project site would be reclaimed to open space grassland, irrigated pasture suitable for grazing, and stormwater retention pond areas in accordance with the requirements of the Amended Reclamation Plan. Final reclamation of the project site would recreate a total of approximately 158.4 acres of annual grassland, representing

reclaimed pit floor, surrounded by approximately 61.7 acres of grassland slopes and approximately 16 acres of other grassland areas (reclaimed roads, conveyors, etc.). The grasslands on reclaimed lands are likely to be floristically similar to existing grasslands but may support more undesirable weeds (CRP 2024). The reclaimed project site would not be designed to create seasonal wetlands, other than swales used to transport excess runoff to stormwater retention ponds.

Two stormwater detention ponds within the Aspen IX Expansion Area would be designed to detain runoff from the 10-year storm event. The stormwater retention ponds would be approximately 4.0 and 5.5 acres in size, respectively, and would be at minimum 10 feet deep at maximum fill and steep-sided to minimize surface area and wildlife attraction. The ponds would be expected to be drawn down completely by mid-summer each year through evaporation and infiltration.

CHANGES IN ON-SITE BIRD POPULATIONS

Construction of the two stormwater detention ponds would increase surface water within the Aspen IX Expansion Area. Despite incorporation of steep sides into pond designs to reduce waterbird attractiveness, the presence of approximately 9.5 acres of surface water would attract waterbirds for breeding, feeding, and resting. Post-project conditions and bird use levels would be expected to increase for three hazardous bird species (Canada Goose, ducks, and swallows) due to the increase of surface water in the stormwater retention ponds. Post-project habitat value and bird use would remain similar to pre-project conditions for 15 hazardous bird species that rely mainly on grassland habitat. Table 7-1 provides a summary of changes in on-site bird use levels.

Table 7-1: Summary of Changes in on-site Bird Use Levels

Species/Species Group	Existing Use	Post-Project Use	Net Project Effect	Rationale for Determination
Canada Goose	Moderate	Moderate-High	Increase	Increased surface water in detention ponds
Ducks	Low-Moderate	Moderate		
Swallows	Low-Moderate	Moderate		Detention ponds a likely attractant
Bald Eagle	Low	Low-Moderate		Increase in waterbird prey
Great Blue Heron and Great Egret	Moderate	Moderate	No Change	Loss of seasonal wetland habitat roughly balanced by creation of detention ponds
Gulls	Moderate	Moderate	No Change	Gulls would continue using grasslands during wet seasons, but would not extensively use small detention ponds
Turkey Vulture	Moderate	Moderate	No Change	Grassland conditions for these species would be generally similar before and after mining because of similarity of existing and reclaimed lands.
Northern Harrier	Moderate	Moderate		
Wild Turkey	Low-Moderate	Low-Moderate		
Swainson's Hawk/White-tailed kite	Low-Moderate	Low-Moderate		
Red-tailed Hawk	Moderate-High	Moderate-High		
Red-shouldered Hawk/Copper's Hawk	Low	Low		
Rock Pigeon	Moderate	Moderate		
Great Horned Owl and Barn Owl	Moderate	Moderate		
Horned Lark	Moderate	Moderate		
American Crow	Moderate-High	Moderate-High		
Comon Raven	Moderate	Moderate		
American Kestrel	Moderate	Moderate		
Mourning Dove	Moderate-High	Moderate-High		
Blackbirds/Starlings	Moderate-High	Moderate-High		
Western Meadowlark /Horned Lark	Moderate-High	Moderate-High		
Sparrows	Moderate-High	Moderate-High		

Source: CRP 2024: Table 2.

AIRCRAFT FLIGHT VOLUMES AND HEIGHTS AND HEIGHTS OF PAST BIRD-AIRCRAFT COLLISIONS

Aircraft flight patterns included in the 2014 WHA and 2023 WHA were reviewed to identify the flight frequency over the project site. As noted in the 2014 WHA, approximately 500 flights per month crossed above the project site. Of the 500 flights, approximately 16 flights flew below 1,000 feet and less than 5 flights flew below 500 feet. The 2023 WHA quantified the number of flight minutes that flights occurred at various heights over the project site. The 2023 WHA found that no flights crossed the properties below 500 feet, and planes were at 500-1,500 feet above the project site for only 16 and 13 minutes per month, respectively. At above 1,500 feet, planes crossed the project site for 71 and 48 minutes per month, respectively.

The 2014 WHA and 2023 WHA indicated that bird collisions occurred infrequently for aircraft using Mather Airport, with 11 bird-aircraft collisions out of 66,446 flights in 2022. Nearly 80 percent of the bird-aircraft collisions at Mather Airport occurred at heights below 200 feet during final approach and departure.

FLIGHT HEIGHTS OF POTENTIALLY HAZARDOUS SPECIES

The flight frequency and heights of potentially hazardous species are summarized in Table 7-2. As shown in Table 7-2, most potentially hazardous species flew predominantly at heights below 100 feet; some species regularly flew at between 100 and 500 feet; and all species seldom fly at heights above 500 feet.

Table 7-2: Flight Frequency of Potentially Hazardous Species at Various Heights

Species/Species Groups	Flight Frequency at Various Heights (feet)				
	0-20	20-100	100-500	500-1,500	1,500-3,000
Canada Goose	High	High	Moderate	Low	Very Low
Ducks	High	High	Moderate	Low	Very Low
Rock Pigeon	High	High	Low	Very Low	None
Mourning Dove	High	High	Moderate	Low	Low
Wild Turkey	High	Moderate	None	None	None
Gulls	High	High	Moderate	Low	Very Low
Heron and Egret	High	Moderate	Low	Very Low	None
Turkey Vulture	High	High	Low	Low	Low
Bald Eagle	High	High	Moderate	Low	Very Low
White-tailed Kite, Northern Harrier	High	Moderate	Low	Very Low	None
Copper's Hawk, Red-shouldered Hawk	High	High	Moderate	Very Low	None
Swainson's Hawk	High	High	Moderate	Low	Very Low
Red-tailed Hawk	High	High	Moderate	Low	Very Low
American Kestrel	High	High	Low	Very Low	None
Great Horned Owl and Barn Owl	High	High	Low	Very Low	None
American Crow/Common Raven	High	High	Moderate	Low	None
Blackbirds/Starling	High	High	Moderate	Very Low	None
Western Meadowlark/Horned Lark	High	Moderate	Low	Very Low	None
Swallows	High	High	Moderate	Low	None
Sparrows	High	Moderate	Low	Low	None

Notes: High = Most of time spent at this heigh; Moderate = Regularly found at this height, (i.e., daily); Low = Infrequently found at this height; Very Low = Occurrence possible, but very rarely; and None = Almost never expected to fly at this height.

Source: CRP 2024: Table 4.

SYNERGISTIC EFFECTS

Synergistic effects are defined as hazards created as a result of project conditions, in combination with other off-site conditions. The potential for an increase in detrimental synergistic effects is based on the species' uses of various land covers and other habitat elements for nesting, roosting, and foraging activities and the potential for movements among habitats for these uses. Two factors could result in movements among different land covers or habitats: whether the species move among different land covers for these uses and whether the land covers used increase or decrease.

The post-project grasslands onsite would be similar to pre-project conditions, except that there would be less area for seasonal wetlands on reclaimed lands. Seasonal wetlands are attractive to some species for foraging and drinking sites. As a result, the post-project grassland habitats would be less attractive as nesting, roosting and foraging habitats, and potential to attract hazardous bird species from adjacent lands would be lower than in existing conditions. However, the creation of the two new stormwater retention ponds with implementation of the proposed project could attract bird species to the Aspen IX Expansion Area from elsewhere to rest and drink. Nevertheless, the Aspen IX Expansion Area is outside the 10,000 feet Critical Zone Buffer around Mather Airport, which would avoid creating significant synergistic hazards.

OVERALL EFFECTS ON BIRD AIRCRAFT COLLISION RISK

The potential magnitude and change in wildlife hazards to aircraft is based on the evaluation of all of the contributing factors discussed above. The risk of bird-aircraft collision would not be expected to significantly increase as a result of the proposed project based on the evaluation of the combination of the contributing factors. The distance of the Aspen VIII and IX Expansion Areas from Mather Airport, the different heights at which aircraft and bird fly over the project site, and the similarity of pre- and post-project habitat conditions would reduce the potential for any net change in bird-aircraft collision hazard between the proposed project compared to the approved project. The addition of two stormwater retention ponds in the Aspen IX Expansion Area could result in an increase in waterbird use under reclaimed conditions, but the ponds would be located outside of the 10,000 Critical Zone Buffer. Therefore, the potential increase in waterbird use due to the creation of the stormwater retention ponds would not be likely to significantly affect collision risk. The incidence of bird-aircraft collisions would not be expected to change substantially under post-project conditions with implementation of the proposed project. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

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8 BIOLOGICAL RESOURCES

INTRODUCTION

This chapter evaluates the potential impacts related to biological resources resulting from implementation of the Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the applicable federal, state, and local regulations and policies related to biological resources; discusses the existing setting; and assesses the potential for implementation of the proposed project to adversely affect biological resources. The analysis within this chapter is based on the *Biological Resources Assessment for the Aspen VII and IX Use Permit Amendment Project* prepared by Teichert Materials in April 2025, presented in Appendix D.

No comments regarding biological resources were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

This chapter describes the vegetation and land cover types and sensitive biological resources (including special-status species) known to occur or that have the potential to occur on the project site. Background information was gathered from the following sources:

- Biological Resources Assessment (BRA) Aspen VIII & IX Mine Project Amendment Sacramento County, California (Teichert 2025; Appendix D of this SEIR);
- Results of California Natural Diversity Database (CNDDB) record search of the US Geological Survey (USGS) 7.5-minute quadrangles including and surrounding the project site (CNDDB 2024);
- Results of California Native Plant Society (CNPS), Inventory of Rare and Endangered Plants record search of the USGS 7.5-minute quadrangles including and surrounding the project site (CNPS 2024); and
- South Sacramento Habitat Conservation Plan (SSHCP; Sacramento County et al. 2018).

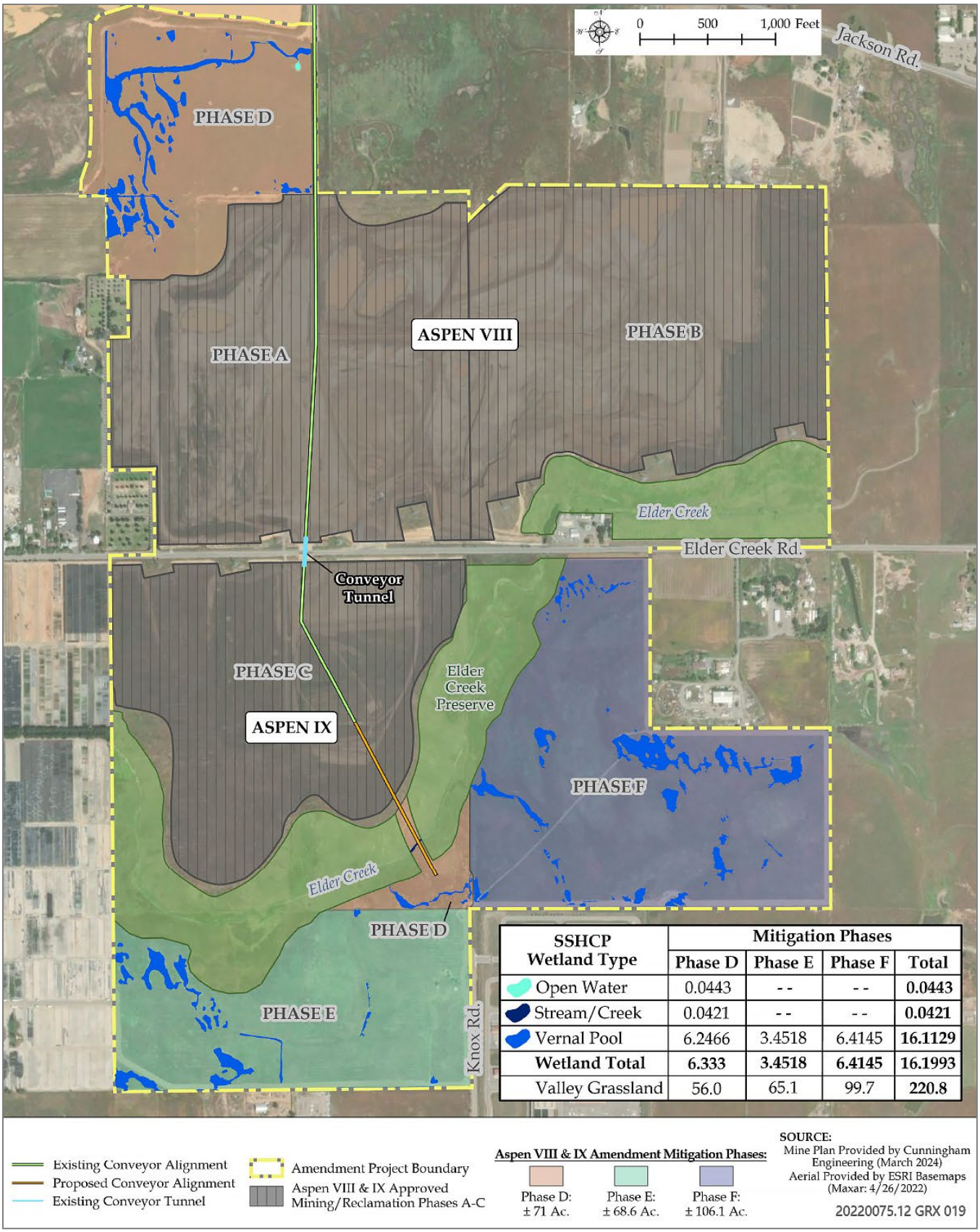
As discussed in Chapter 2, “Project Description,” the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), located adjacent to the existing Aspen VIII and IX surface mining areas. The proposed project also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not

located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

As a condition of approval for the approved project (existing Mining Use Permit [PLNP2014-00201] and the corresponding US Army Corps of Engineers permit number SPK-2008-00909), the Elder Creek Open Space Preserve (Preserve) was established as mitigation for impacts associated with the approved project to protected trees, tree canopy, and herbaceous riparian vegetation (Adopted 2016 Final EIR Mitigation Measure BR-4). The 92-acre Preserve is a conservation and preservation area that protects the portion of Elder Creek that flows through the existing Aspen VIII and IX mining areas as well as associated wetland and grassland habitats immediately adjacent to the creek channel. As part of the approved project, a long-term management plan was approved for the Preserve to ensure the protection of these habitat features and functions in perpetuity and a Conservation Easement was recorded for the Preserve on May 5, 2017. A total of 218 valley oak, interior live oak, and Oregon ash seedlings were planted in the Preserve and the Aspen IV-South Preserve. The successful establishment of these mitigation plantings created 3.67 acres of riparian habitat to satisfy mitigation for impacts to tree canopy and riparian vegetation. As of 2022, Teichert fulfilled these mitigation requirements. The mitigation plantings and riparian habitat established within the Preserve are now managed as part of the Preserve. It should be noted that establishment of the Preserve pre-dates establishment of the South Sacramento Habitat Conservation Plan (Teichert 2025).

Vegetation and Land Cover

Field surveys to assess existing conditions on the project site and an aquatic resources delineation of the project site were conducted by EcoSynthesis Scientific and Regulatory Services in 2023 and additional information relating to federal wetland jurisdictional status was gathered and submitted to US Army Corps of Engineers (USACE) in 2024 with a request for an approved jurisdictional determination (Teichert 2025). At the time publication of this SEIR, the jurisdictional status of the wetlands and waters on the project site is currently unknown (Teichert 2025). A preliminary jurisdictional determination was issued by USACE in 2014 for analysis in the 2016 Final EIR, and it is likely that wetlands on the project site will be determined to be waters of the United States and/or waters of the state; however, due to changes in the regulatory environment related to waters of the United States, some vernal pools may no longer qualify as waters of the United States. The predominant vegetation type on the project site is valley grassland (Table 8-1; Figure 8-1; Teichert 2025). The project site also contains disturbed land cover and wetland habitats (i.e., vernal pools, open water [a seasonal pond], stream/creek; Table 8-1; Figure 8-1; Teichert 2025). These vegetation and land cover types are described in the following paragraphs and the acreage of each is provided in Table 8-1. Existing land cover on the project site is shown in Figure 8-1.



SSHCP Wetland Type	Mitigation Phases			
	Phase D	Phase E	Phase F	Total
Open Water	0.0443	--	--	**0.0443**
Stream/Creek	0.0421	--	--	**0.0421**
Vernal Pool	6.2466	3.4518	6.4145	**16.1129**
Wetland Total	**6.333**	**3.4518**	**6.4145**	**16.1993**
Valley Grassland	56.0	65.1	99.7	**220.8**

Source: Data provided by Teichert, adapted by Ascent in 2025.

Figure 8-1: Vegetation and Land Cover Types on the Project Site

Table 8-1: Vegetation and Land Cover on the Project Site

Habitat Type	Acres on the Project Site
Valley Grassland	221
Disturbed	8.7
Vernal Pool	16.1
Open Water	0.04
Stream/Creek (Elder Creek)	0.04

Source: Teichert 2025.

Valley Grassland

The project site contains approximately 221 acres of valley grassland, characterized by natural areas with gently undulating topography as well as historically leveled areas. Some of the area is subject to cattle grazing (Table 8-1; Figure 8-1). Most of the grassland is composed of annual brome grasslands (i.e., ripgut brome [*Bromus diandrus*], soft chess [*Bromus hordeaceus*]) and patches of wild oat grasslands (i.e., slender oat [*Avena barbata*], wild oat [*Avena fatua*]). Other grass species present on the project site include medusahead (*Elymus caput-medusae*) and perennial ryegrass (*Festuca perennis*).

Valley grasslands that maintain a natural topography and have not been leveled are located south of Elder Creek, in the southern and eastern portions of Aspen IX Expansion Area. Similar landscapes are also present near the northwestern corner and south-central portion of Aspen VIII Expansion Area. These areas consist of relatively flat to moderately rolling hills dominated by soft chess, ripgut brome, hare barley (Hordeum murinum), brome fescue (*Festuca bromioides*), longbeak filaree (*Erodium botrys*), perennial mustard (*Hirschfeldia incana*), winter vetch (*Vicia villosa* var. *varia*), common fiddleneck (*Amsinckia intermedia*), yellow star-thistle (*Centaurea solstitialis*), and field bindweed (*Convolvulus arvensis*). Vernal pools are common within these relatively undisturbed landscapes.

Trees are largely absent in the valley grassland on the project site except along borders where other features exist (e.g., roads, ditches) and most of these trees are ornamental (see discussion under the heading “Native and Nonnative Trees,” below).

Disturbed

Approximately 8.7 acres of disturbed land cover is present on the project site (Table 8-1; Figure 8-1). Disturbed land is defined in the SSHCP as open space areas that have been subjected to previous or ongoing disturbances such as along roadsides, trails, and parking lots. Scraped or graded land, gravel mining, and waste disposal sites are included in this land cover type (Sacramento County et al. 2018). Disturbed land on the project site is characterized by previously graded land in the Aspen VIII Expansion Area. Disturbed lands are often vegetated by nonnative grasses and forbs similar to annual grasslands, but they may harbor invasive plant species such as milk thistle (*Silybum marianum*), yellow-star thistle, and stinkwort (*Dittrichia graveolens*).

Vernal Pools

Vernal pools are characterized as shallow depressions underlain by an impermeable soil layer that captures and stores seasonal rainfall in its basin, losing water primarily through evaporation rather than drainage. Numerous pools, totaling approximately 16.1 acres, occur throughout the undisturbed valley grassland areas on the project site (Table 8-1; Figure 8-1). The vernal pools vary in maximum water depth between a few inches to 20 inches deep, and range in size from approximately 0.0016 to 2.2 acres. Some vernal pools on the project site support native vernal pool plants such as slender popcornflower (*Plagiobothrys stipitatus* var. *micranthus*), Carter's buttercup (*Ranunculus bonariensis* var. *trisepalus*), Fremont's goldfields (*Lasthenia fremontii*), smooth goldfields (*Lasthenia glaberrima*), Great Valley coyote thistle (*Eryngium castrense*), creeping spikerush (*Eleocharis macrostachya*), annual hairgrass, Mediterranean barley, white navarretia (*Navarretia leucocephala*), double-horned downingia (*Downingia bicornuta* var. *picta*), dwarf woolly-marbles (*Psilocarphus brevissimus*), field owl's-clover (*Castilleja campestris*), and rosy Douglas' meadowfoam (*Limnanthes douglasii* ssp. *rosea*). The vernal pool fairy shrimp (*Branchinecta lynchi*) and vernal pool tadpole shrimp (*Lepidurus packardi*), listed as threatened and endangered pursuant to the Endangered Species Act (ESA), respectively, are also likely to occur within several vernal pools on the project site and adjacent areas (Teichert 2025). Some of the vernal pool land cover on the project site are dominated by nonnative wetland generalist plants, including perennial ryegrass, Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*), Mediterranean beardgrass (*Polypogon maritimus*), common hawkbit (*Leontodon saxatilis* subsp. *longirostris*), and hyssop loosestrife *(Lythrum hyssopifolia*).

Open Water

One 0.04-acre area of open water is present on the project site, and consists of a seasonal pond. This feature is hydrologically similar to a vernal pool but is slightly deeper and differs from features categorized as vernal pools in having less than 5 percent absolute cover of vascular plants.

Stream/Creek (Elder Creek)

A small segment (i.e., 123 linear feet; 0.04 acres) of Elder Creek is present on the project site, and a perpendicular conveyor crossing would be placed over a small portion of this creek. The small segment of Elder Creek on the project site does not have hydrophytic vegetation and the plant species observed near the creek were common hawkbit, Mediterranean barley, Fitch's spikeweed (*Centromadia fitchii*), and hyssop loosestrife. Flow within the segment of the creek on the project site occurs for weeks or at most months each year. In the SSHCP, this habitat type is called "Stream/Creek" (Sacramento County et al. 2018).

Native and Nonnative Trees

As described below under the heading "Regulatory Setting," the Sacramento County Tree Preservation Ordinance and policies in the General Plan Conservation Element afford protections to native trees and native and nonnative tree canopy. An arborist

survey was conducted for the project site to determine the presence and distribution of tree species on and immediately adjacent to the project site (Attachment C in Appendix D of this SEIR). A total of 132 trees of 29 species were surveyed. Most trees were found along property fence lines, ditches, ponds, and associated with residential and business landscaping. Of the trees surveyed, 62 were on or immediately adjacent to the proposed limits of disturbance for the proposed project, and therefore, have the potential to be adversely affected by project activities. Of those trees, 20 were native species of sufficient size (i.e., greater than 6 inches diameter at breast height [DBH]) to be regulated by the Sacramento County Tree Preservation Ordinance, with a cumulative DBH of 313.1 inches. These native tree species included valley oak (*Quercus lobata*), Gooding's black willow (*Salix goodingii*), Fremont cottonwood (*Populus fremontii*), and northern California black walnut (*Juglans hindsii*).

Special-Status Species

A "special-status" species is one which has been identified as having relative scarcity and/or declining populations. Special-status species include those formally listed as threatened or endangered, those proposed for federal listing, candidates for state or federal listing, and those classified as species of special concern by CDFW. Also included are those species considered to be "fully protected" under California Fish and Game Code, those granted "special animal" status for tracking and monitoring purposes, those plant species considered to be rare, threatened, or endangered in California by CNPS, and covered species under the SSHCP.

There are multiple status designations applied to animal and plant species; the relevant definitions are provided below:

- Endangered Species: Any species which is in danger of extinction throughout all or a significant portion of its range.
- Threatened Species: Any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.
- Species of Concern: Any species with declining population levels, limited ranges, and/or other factors that make them vulnerable to extinction and may ultimately qualify the species for threatened or endangered status.
- Fully Protected: The classification of Fully Protected was California's initial effort to identify and provide additional protection to those animals that were rare or faced possible extinction. Most have subsequently been defined as endangered or threatened, but there are exceptions.
- California Rare Plant Ranks: Plant taxa considered by CDFW to be "rare, threatened, or endangered in California" and assigned a California rare plant rank (CRPR) of 1A, presumed extinct in California and not known to occur elsewhere; 1B, considered rare or endangered in California and elsewhere; 2A, presumed extinct in California, but more common elsewhere and 2B, considered rare or endangered in California but more common elsewhere).

The 2016 Final EIR assessed the potential for special-status species to occur within the existing Aspen VIII and IX mining areas for the approved project. The special-status species considered for analysis in the 2016 Final EIR consisted of 12 special-status plant species and 19 special-status wildlife.

Since the adoption of the 2016 Final EIR, four additional species have been listed as special-status species, including the Crotch's bumble bee (*Bombus crotchii*), monarch butterfly (*Danaus plexippus*), western red bat (*Lasiurus frantzii*), and pallid bat (*Antrozous pallidus*). Crotch's bumble bee is a candidate for listing under CESA; monarch butterfly is proposed for listing under ESA; and western red bat and pallid bat are both CDFW species of special concern and western red bat is also a covered species under the SSHCP. While these new special-status species were not surveyed within the existing Aspen VIII and IX mining areas or evaluated within the 2016 Final EIR, these species were not considered likely to occur in the previously approved project site analyzed in the 2016 Final EIR (Teichert 2025). Furthermore, since adoption of the 2016 Final EIR, western burrowing owl has been designated as a candidate for listing under the California Endangered Species Act (CESA), which represents an upgrade in its designation since the 2016 Final EIR.

In addition, hogwallow starfish (*Hesperevax caulescens*) and yellow-billed magpie (*Pica nuttalli*), both of which were considered as special-status species in the 2016 Final EIR, are now not considered special-status species under CEQA. Therefore, these species are not considered further in this analysis.

As described in greater detail in the BRA, additional field surveys were conducted to document existing conditions of the project site and assess the potential for habitats to support special-status species (Teichert 2025). In addition, the following focused- and protocol-level field surveys were conducted:

- botanical survey (Attachment B of Appendix D);
- arborist survey (i.e., trees and tree canopy) (Attachment C of Appendix D);
- bumble bee survey (Attachment D of Appendix);
- bird surveys (Attachment E of Appendix D of this SEIR); and
- bat habitat assessment (Attachment F of Appendix D of this SEIR).

Based on the species and designation changes from the 2016 Final EIR and the additional field surveys conducted for the proposed project, updated special-status species lists were generated for preparation of this SEIR (Tables 8-2 and 8-3). Table 8-2 provides an updated list of special-status plant species and Table 8-3 provides an updated list of special-status wildlife species that have been documented within the USGS 7.5-minute quadrangles including and surrounding the project site, or that otherwise have geographic ranges that overlap the project site. The tables describe the species' regulatory status, habitat, and potential for occurrence on the project site. Special-status species that are "known to occur" on the project site are those species with occurrences from the CNDDB in or overlapping the project site. Special-status species that are not known to occur on the project site are indicated as either "may

occur" or "not expected to occur" on the project site based on habitat associations and species geographic ranges.

As shown in Table 8-2, of the 15 special-status plant species that are known to occur within or around the project site, 7 species were determined to have the potential to occur on the project site based on the geographic ranges of these species and the presence of habitat suitable for the species (CNDDB 2024; CNPS 2024; Teichert 2025). The remaining 8 plant species are not expected to occur on the project site due to the lack of suitable habitat and/or because the geographic ranges of these species do not overlap the project site (Table 8-2).

As shown in Table 8-3, of the 55 special-status wildlife species that are known to occur within or around the project site, 6 species are known to occur, and 10 species were determined to have potential to occur on the project site based on the geographic ranges of these species and the presence of suitable habitat (CNDDB 2024; Teichert 2025). The remaining 39 wildlife species are not expected to occur on the project site due to the lack of suitable habitat and/or because the geographic ranges of these species do not overlap the project site (Table 8-3).

Out of the 16 special-status wildlife species that are known or may occur on the project site,13 species are covered species under the SSHCP: western spadefoot (*Spea hammondii*), western burrowing owl (*Athene cunicularia hypugaea*), ferruginous hawk (*Buteo regalis*), loggerhead shrike (*Lanius ludovicianus*), northern harrier (*Circus hudsonius*), Swainson's hawk (*Buteo swainsoni*), tricolored blackbird (*Agelaius tricolor*), white-tailed kite (*Elanus leucurus*), midvalley fairy shrimp (*Branchinecta mesovallensis*), Ricksecker's water scavenger beetle (*Hydrochara ricksecker*i), vernal pool fairy shrimp, vernal pool tadpole shrimp, and western red bat (Table 8-3). Because the SSHCP was not adopted at the time of certification of the 2016 Final EIR, coverage by the SSHCP for these species was not considered in the 2016 Final EIR.

Table 8-2: Special-Status Plants Known to Occur in the Project Region and their Potential to Occur on the Project Site

Name	Federal Status[1]	State Status[1]	CRPR[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Peruvian dodder *Cuscuta obtusiflora* var. *glandulosa*	—	—	2B.2	—	Marshes and swamps (freshwater). Freshwater marsh. 50–920 feet in elevation. Blooms July–October. Annual.	**Not expected to occur**. The project site does not contain freshwater marsh habitat.
Dwarf downingia *Downingia pusilla*	—	—	2B.2	Covered Species	Valley and foothill grassland (mesic sites), vernal pools. Vernal lake and pool margins with a variety of associates. In several types of vernal pools. 5–1,610 feet in elevation. Blooms March–May. Annual.	**May Occur**. The project site contains vernal pool habitat suitable for this species.

Name	Federal Status[1]	State Status[1]	CRPR[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Tuolumne button-celery *Eryngium pinnatisectum*	—	—	1B.1	—	Vernal pools, cismontane woodland, lower montane coniferous forest. Volcanic soils; vernal pools and mesic sites within other natural communities. 230–3,000 ft in elevation. Blooms May–August. Annual/Perennial.	**Not expected to occur.** The project site does not contain volcanic soils.
Abrams' spurge *Euphorbia abramsiana*	—	—	2B.2	—	Mojavean desert scrub, Sonoran desert scrub. Sandy sites. 150–4,740 feet in elevation. Blooms September–November. Annual.	**Not expected to occur.** The project site does not contain scrub habitat.
Boggs Lake hedge-hyssop *Gratiola heterosepala*	—	SE	1B.2	Covered Species	Marshes and swamps (freshwater), vernal pools. Clay soils; usually in vernal pools, sometimes on lake margins. 35–7,790 feet in elevation. Blooms April–August. Annual.	**May Occur.** The project site contains wetland and vernal pool habitat suitable for this species.
Woolly rose-mallow *Hibiscus lasiocarpos* var. *occidentalis*	—	—	1B.2	—	Moist, freshwater-soaked riverbanks and low peat islands in sloughs; can also occur on riprap and levees. In California, known from the delta watershed. 0–510 feet in elevation. Blooms June–September. Geophyte.	**Not expected to occur.** The project site does not contain freshwater marsh or riverbank habitat. The segment of Elder Creek on the project site does not provide habitat suitable for this species.
Ahart's dwarf rush *Juncus leiospermus* var. *ahartii*	—	—	1B.2	Covered Species	Valley and foothill grassland. Restricted to the edges of vernal pools in grassland. 100–330 feet in elevation. Blooms March–May. Annual.	**May Occur.** The project site contains vernal pool habitat suitable for this species.
Alkali-sink goldfields *Lasthenia chrysantha*	—	—	1B.1	—	Vernal pools. Alkaline. 0–655 feet in elevation. Blooms February–June. Annual.	**Not expected to occur.** The project site is outside of the known geographical range of this species.
Legenere *Legenere limosa*	—	—	1B.1	Covered Species	Vernal pools, wetland. In beds of vernal pools. 5–2,885 feet in elevation. Blooms April–June. Annual.	**May Occur**. The project site contains wetland and vernal pool habitat suitable for this species.

Name	Federal Status[1]	State Status[1]	CRPR[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Heckard's pepper-grass *Lepidium latipes* var. *heckardii*	—	—	1B.2	—	Grassland, and sometimes vernal pool edges. Alkaline soils. 5–100 feet in elevation. Blooms March–May. Annual.	**Not expected to occur.** The project site does not contain alkaline soils.
Pincushion navarretia *Navarretia myersii* ssp. *myersii*	—	—	1B.1	Covered Species	Vernal pools, wetland. Clay soils within non-native grassland. 150–330 feet in elevation. Blooms April–May. Annual.	**May Occur**. The project site contains vernal pool habitat suitable for this species.
Slender Orcutt grass *Orcuttia tenuis*	FT	SE	1B.1	Covered Species	Vernal pools, wetland. Often in gravelly substrate. 80–5,760 feet in elevation. Blooms May–September. Annual.	**May Occur.** The project site contains vernal pool habitat suitable for this species.
Sacramento Orcutt grass *Orcuttia viscida*	FE	SE	1B.1	Covered Species	Vernal pools, wetland. 50–280 feet in elevation. Blooms April–July. Annual.	**May Occur.** The project site contains vernal pool habitat suitable for this species.
Sanford's arrowhead *Sagittaria sanfordii*	—	—	1B.2	Covered Species	Marshes and swamps. In standing or slow-moving freshwater ponds, marshes, and ditches. 0–2,135 feet in elevation. Blooms May–October. Geophyte.	**Not expected to occur.** Sanford's arrowhead colonies were previously observed growing in two irrigated ditches near the western part of Aspen VIII mining area on the project site during protocol-level surveys conducted for the 2016 Final EIR. These plants were successfully transplanted by Teichert from the Aspen VIII mining area to Teichert's nearby Aspen III-South and Aspen IV-South properties pursuant to 2016 Final EIR Mitigation Measure BR-1.1 (Teichert Materials 2025). The project site no longer contains aquatic habitat suitable for this species.

Name	Federal Status[1]	State Status[1]	CRPR[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Saline clover *Trifolium hydrophilum*	—	—	1B.2	—	Wetland. Marshes and swamps, valley and foothill grassland, vernal pools. Mesic, alkaline sites. 0–985 ft in elevation. Blooms April–June. Annual.	**Not expected to occur.** The project site does not contain alkaline soils.

Notes: CRPR = California Rare Plant Rank; CNDDB = California Natural Diversity Database

[1 & 2] Legal Status Definitions

Federal:
FE Endangered (legally protected)
FT Threatened (legally protected)
State:
SE Endangered (legally protected)
ST Threatened (legally protected)

California Rare Plant Ranks:
1B Plant species considered rare or endangered in California and elsewhere (protected under CEQA, but not legally protected under ESA or CESA)
2B Plant species considered rare or endangered in California but more common elsewhere (protected under CEQA, but not legally protected under ESA or CESA)

Threat Ranks:
0.1 Seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat)
0.2 Moderately threatened in California (20-80% occurrences threatened; moderate degree and immediacy of threat)
0.3 Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Sources: CNDDB 2024; CNPS 2024; Sacramento County et al. 2018; Teichert 2025.

Table 8-3: Special-Status Wildlife Known to Occur in the Project Region and their Potential to Occur on the Project Site

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Amphibians and Reptiles					
California tiger salamander - central California DPS *Ambystoma californiense* pop. 1	FT	ST	Covered Species	Lives in vacant or mammal-occupied burrows throughout most of the year; in grassland, savanna, or open woodland habitats. Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	**Not expected to occur.** No SSHCP modeled habitat for California tiger salamander is present on the project site, and this species is also not typically found in fragmented valley floor sites.
Coast horned lizard *Phrynosoma blainvillii*	—	SSC	—	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	**Not expected to occur.** Shrub habitat with sandy soil is not present on the project site.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Giant gartersnake *Thamnophis gigas*	FT	ST	Covered Species	Marsh and swamp, riparian scrub, wetland. Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals and irrigation ditches. This is the most aquatic of the garter snakes in California.	**Not expected to occur.** The project site does not contain perennial waters and is outside of the known geographic range of this species.
Northwestern pond turtle *Actinemys marmorata*	FP	SSC	Covered Species	Ponds, marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, below 6,000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to approximately 0.3 miles (0.5 km) from water for egg-laying.	**Not expected to occur.** The seasonal presence of surface water on the project site is not sufficient for this primarily aquatic species.
Western spadefoot *Spea hammondii*	FP	SSC	Covered Species	Occurs primarily in grassland habitats but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	**May occur.** Vernal pool habitat on the project site may provide habitat suitable for this species.
Bird					
American peregrine falcon *Falco peregrinus anatum*	FD	SD	—	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.	**Not expected to occur.** The project site does not contain nesting habitat (e.g., tall cliffs, tall buildings) or high-quality foraging habitat for this species.
Bald eagle *Haliaeetus leucocephalus*	FD	SE FP	—	Lower montane coniferous forest, old growth. Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests are within 1 mile of water. Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	**Not expected to occur.** The project site does not contain nesting habitat (e.g., large trees adjacent to large bodies of water) for this species.
Bank swallow *Riparia riparia*	—	ST	—	Riparian scrub, riparian woodland. Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, and the ocean to dig nesting hole.	**Not expected to occur.** Bank and cliff habitat suitable for this species is not present on the project site.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Western burrowing owl *Athene cunicularia hypugaea*	—	SSC SC	Covered Species	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	**Known to occur.** A burrowing owl was observed in November of 2024 in the Elder Creek Preserve, adjacent to the project site and within 155 feet of the boundary of the project site (Teichert Materials 2025).
California least tern *Sternula antillarum browni*	FE	SE FP	—	Alkali playa, wetland. Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, landfills, or paved areas.	**Not expected to occur.** Nesting habitat suitable for this species is not present on the project site.
Cooper's hawk *Accipiter cooperi*	—	—	Covered Species	Frequents landscapes where wooded areas occur in patches and groves. Often uses patchy woodlands and edges with snags for perching. Prefers dense stands with moderate crown-depths used for nesting	**Not expected to occur.** Woodland habitat is not present on the project site.
Ferruginous hawk *Buteo regalis*	—	—	Covered Species	Uncommon winter resident and migrant at lower elevations and open grasslands in the Modoc Plateau, Central Valley, and Coast Ranges. Fairly common winter resident of grasslands and agricultural areas in southwestern California. Frequents open grasslands, sagebrush flats, desert scrub, low foothills surrounding valleys, and fringes of pinyon-juniper habitats.	**May occur.** Trees and grassland habitat may be used by wintering ferruginous hawks for perching and foraging.
Golden eagle *Aquila chrysaetos*	—	FP	—	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	**Not expected to occur.** Nesting habitat (i.e., large trees, cliffs) and foraging habitat (i.e., large expanses of grassland or shrubland) for this species are not present on the project site.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Grasshopper sparrow *Ammodramus savannarum*	—	SSC	—	Dense grasslands on rolling hills, lowland plains, in valleys and on hillsides on lower mountain slopes. Favors native grasslands with a mix of grasses, forbs and scattered shrubs. Loosely colonial when nesting.	**Not expected to occur.** The project site is outside of the limited regional range of this species.
Greater sandhill crane *Antigone canadensis tabida*	—	ST FP	Covered Species	Nests in wetland habitats in northeastern California; winters in the Central Valley. Prefers grain fields within 4 miles of a shallow body of water used as a communal roost site; irrigated pasture used as loafing sites.	**Not expected to occur.** The project site does not contain grain fields or irrigated pastures suitable for this species.
Least bittern *Ixobrychus exilis*	—	SSC	—	Colonial nester in marshlands and borders of ponds and reservoirs which provide ample cover. Nests usually placed low in tules, over water.	**Not expected to occur.** The project site does not contain marsh habitat preferred by this species.
Loggerhead shrike *Lanius ludovicianus*	—	SSC	Covered Species	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub, and washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	**Known to occur.** A loggerhead shrike has been observed approximately 500 feet from the project site; however, nesting has not been confirmed (Teichert Materials 2025).
Long-eared owl *Asio otus*	—	SSC	—	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses. Require adjacent open land productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	**Not expected to occur**. Nesting habitat (i.e., dense riparian habitat) preferred by this species and high-quality foraging habitat is not present on the project site.
Mountain plover *Charadrius montanus*	—	SSC	—	Short grasslands, freshly plowed fields, newly sprouting grain fields, and sometimes sod farms. Short vegetation, bare ground, and flat topography. Prefers grazed areas and areas with burrowing rodents.	**Not expected to occur.** The valley grassland habitat on the project site is too tall and dense to provide habitat for this species.
Northern harrier *Circus hudsonius*	—	SSC	Covered Species	Coastal salt and freshwater marsh. Nest and forage in grasslands, from salt grass in desert sink to mountain cienagas. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	**Known to occur.** Northern harriers have been observed multiple times on and adjacent to the project site; however, nesting has not been confirmed (Teichert Materials 2025).

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Purple martin *Progne subis*	—	SSC	—	Broadleaved upland forest, lower montane coniferous forest. Inhabits woodlands, low elevation coniferous forest of Douglas fir, ponderosa pine, and Monterey pine. Nests in old woodpecker cavities mostly, also in human-made structures. Nest often located in tall, isolated tree/snag.	**Not expected to occur.** Forest habitat suitable for this species or human made nesting substrates (e.g., bridges) are not present on the project site.
Short-eared owl *Asio flammeus*	—	SSC	—	Great Basin grassland, marsh and swamp, meadow and seep, valley and foothill grassland, and wetlands. Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields. Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.	**Not expected to occur.** The project site does not contain marsh or swamp habitat preferred by this species.
Song sparrow ("Modesto" population) *Melospiza melodia* pop. 1	—	SSC	—	Ranges from Colusa County south to Stanislaus County and east of Suisun Marshes. Breeds chiefly below 200 feet elevation. Freshwater marshes, riparian thickets, sparsely vegetated irrigation canals, and valley oak restoration sites. Cover consists of willow and nettle thickets, growths of tules and cattails, and riparian oak forests with sufficient understory of blackberry.	**Not expected to occur.** Dense riparian or marsh habitat preferred by this species is not present on the project site.
Swainson's hawk *Buteo swainsoni*	—	ST	Covered Species	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	**Known to occur.** In July of 2023, a Swainson's hawk was observed exhibiting territorial behavior and hunting on the project site (Teichert Materials 2025). In 2024, a pair of Swainson's hawks nested successfully in a tree directly above the Teichert field office, approximately 170 feet from the project site (Teichert Materials 2025).

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Tricolored blackbird *Agelaius tricolor*	—	ST SSC	Covered Species	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few miles of the colony.	**Known to occur.** Tricolored blackbirds were observed foraging on the project site in the summer of 2024; likely associated with a nesting colony located west of the project site. Nesting habitat for this species is not present on the project site.
Vaux's swift *Chaetura vauxi*	—	SSC	—	Lower montane coniferous forest, north coast coniferous forest, old growth, redwood. Redwood, Douglas fir, and other coniferous forests. Nests in large hollow trees and snags. Often nests in flocks. Forages over most terrains and habitats but shows a preference for foraging over rivers and lakes.	**Not expected to occur.** Forest habitat suitable for this species is not present on the project site.
Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT	SE	—	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	**Not expected to occur.** Dense riparian habitat preferred by this species is not present on the project site.
White-tailed kite *Elanus leucurus*	—	FP	Covered Species	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	**Known to occur.** In March of 2023, a pair of white-tailed kites were observed exhibiting nesting behaviors in a large valley oak project site (Teichert Materials 2025).
Yellow warbler *Setophaga petechia*	—	SSC	—	Riparian plant associations near water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	**Not expected to occur.** Dense riparian habitat preferred by this species is not present on the project site.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Yellow-breasted chat *Icteria virens*	—	SSC	—	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 feet of ground.	**Not expected to occur.** Dense riparian habitat preferred by this species is not present on the project site.
Yellow-headed blackbird *Xanthocephalus xanthocephalus*	—	SSC	—	Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds. Nests only where large insects such as Odonata are abundant, nesting timed with maximum emergence of aquatic insects.	**Not expected to occur.** Dense riparian habitat preferred by this species is not present on the project site.
Fish					
Chinook salmon - Central Valley fall / late fall-run Evolutionarily Significant Unit *Oncorhynchus tshawytscha* pop. 13	—	SSC	—	Populations spawning in the Sacramento and San Joaquin rivers and their tributaries.	**Not expected to occur**. Aquatic habitat suitable for this species is not present on the project site.
Chinook salmon - Central Valley spring-run ESU *Oncorhynchus tshawytscha* pop. 11	FT	ST	—	Adult numbers depend on pool depth and volume, amount of cover, and proximity to gravel. Water temperatures greater than 27 C are lethal to adults. Federal listing refers to populations spawning in Sacramento River and tributaries.	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.
Chinook salmon - Sacramento River winter-run ESU *Oncorhynchus tshawytscha* pop. 7	FE	SE	—	Sacramento River below Keswick Dam. Spawns in the Sacramento River, but not in tributary streams. Requires clean, cold water over gravel beds with water temperatures between 6 and 14 C for spawning.	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.
Delta smelt *Hypomesus transpacificus*	FT	SE	—	Seasonally in Suisun Bay, Carquinez Strait and San Pablo Bay. Seldom found at salinities greater than 10 ppt. Most often at salinities less than 2 ppt.	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Green sturgeon *Acipenser medirostris*	FT	SSC	—	These are the most marine species of sturgeon. Abundance increases northward of Point Conception. Spawns in the Sacramento, Klamath, and Trinity rivers. Spawns at temperatures between 8-14 degrees C. Preferred spawning substrate is large cobble, but can range from clean sand to bedrock.	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.
Hardhead *Mylopharodon conocephalus*	—	SSC	—	Low to mid-elevation streams in the Sacramento-San Joaquin drainage. Also present in the Russian River. Clear, deep pools with sand-gravel-boulder bottoms and slow water velocity. Not found where exotic centrarchids predominate.	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.
Longfin smelt San Francisco Bay-Delta Distinct Population Segment *Spirinchus thaleichthys* pop. 2	FE	ST SSC	—	Found in open waters of estuaries, mostly in middle or bottom of water column. Can be found in completely freshwater to almost pure seawater.	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.
Pacific lamprey *Entosphenus tridentatus*	—	SSC	—	Found in Pacific Coast streams north of San Luis Obispo County, however regular runs in Santa Clara River. The size of runs is declining. Swift-current gravel-bottomed areas for spawning with water temperatures between 12-18 degrees C. Ammocoetes (the larval stage of this species) need soft sand or mud.	**Not expected to occur**. Aquatic habitat suitable for this species is not present on the project site.
Sacramento splittail *Pogonichthys macrolepidotus*	—	SSC	—	Endemic to the lakes and rivers of the Central Valley, but now confined to the Delta, Suisun Bay, and associated marshes. Slow moving river sections, dead end sloughs. Requires flooded vegetation for spawning and foraging for young.	**Not expected to occur**. Aquatic habitat suitable for this species is not present on the project site.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Steelhead - Central Valley DPS *Oncorhynchus mykiss irideus* pop. 11	FT	—	—	Populations in the Sacramento and San Joaquin rivers and their tributaries.	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.
Western river lamprey *Lampetra ayresii*	—	SSC	—	Lower Sacramento River, San Joaquin River, and Russian River. May occur in coastal streams north of San Francisco Bay. Adults need clean, gravelly riffles, ammocoetes need sandy backwaters or stream edges, good water quality and temperatures less than 25 C	**Not expected to occur.** Aquatic habitat suitable for this species is not present on the project site.
Invertebrates					
Crotch's bumble bee *Bombus crotchii*	—	SC	—	Found primarily in California: mediterranean, Pacific coast, western desert, Great Valley, and adjacent foothills through most of southwestern California. Habitat includes open grassland and scrub. Nests underground.	**May occur.** Valley grassland habitat on the project site likely provides foraging and nesting habitat suitable for this species.
Conservancy fairy shrimp *Branchinecta conservatio*	FE	—	—	Endemic to the grasslands of the northern two-thirds of the Central Valley; found in large, turbid pools. Inhabit astatic pools located in swales formed by old, braided alluvium; filled by winter/spring rains, last until June.	**Not expected to occur.** The vernal pools on the project site are too shallow to provide habitat for this species.
Midvalley fairy shrimp *Branchinecta mesovallensis*	—	—	Covered Species	Vernal pools in the Central Valley.	**May occur.** Vernal pool and wetland habitat on the project site likely provides habitat suitable for this species.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Monarch Butterfly *Danaus plexippus*	FP	—	—	Habitat requirements include host plants for larvae (primarily milkweeds [*Asclepias* spp.]); adult nectar sources (i.e., flowering plants); and sites for roosting, thermoregulation, mating, hibernation, and predator escape. Additionally, monarch butterfly requires conditions and resources for initiating and completing migration both to and from winter roosting areas. Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	**May occur.** The project site is outside of the overwintering range of this species; however, two species of milkweed (*Asclepias eriocarpa* and *Asclepias fascicularis*), have been observed on the project site which may provide breeding habitat for monarch butterfly, as well as a modest diversity of wildflowers which may provide nectar sources for adults (Teichert Materials 2025).
Ricksecker's water scavenger beetle *Hydrochara rickseckeri*	—	—	Covered Species	Sacramento/San Joaquin flowing waters and standing waters.	**May occur.** Vernal pool and wetland habitat on the project site likely provides habitat suitable for this species.
Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	FT	—	Covered Species	Riparian scrub. Occurs only in the Central Valley of California, in association with blue elderberry (*Sambucus mexicana*). Prefers to lay eggs in elderberries 2–8 inches in diameter; some preference shown for "stressed" elderberries.	**Not expected to occur.** The project site contains one isolated elderberry shrub with stems significantly less than 1 inch in diameter, that likely does not provide habitat for this species.
Vernal pool fairy shrimp *Branchinecta lynchi*	FT	—	Covered Species	Endemic to the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains, in astatic rain-filled pools. Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	**May occur.** Vernal pool habitat on the project site likely provides habitat suitable for this species.
Vernal pool tadpole shrimp *Lepidurus packardi*	FE	—	Covered Species	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in grass bottomed swales of unplowed grasslands. Some pools are mud-bottomed and highly turbid.	**May occur.** Vernal pool habitat on the project site likely provides habitat suitable for this species.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Mammals					
American badger *Taxidea taxus*	—	SSC	Covered Species	American badgers are most commonly found in treeless areas including tallgrass and shortgrass prairies, grass-dominated meadows and fields within forested habitats, and shrub-steppe communities. Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils, and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	**Not expected to occur.** The project site is surrounded by urban uses and is fragmented from other natural habitat areas; therefore, habitat suitable for this species is not present.
Pallid bat *Antrozous pallidus*	—	SSC	—	Most common in open, dry habitats with rocky areas for roosting. Tree roosting has also been documented in large conifer snags, inside basal hollows of redwoods and giant sequoias, and bole cavities in oaks. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	**May occur.** Roost habitat for this species may be present in trees on the project site.
Townsend's big-eared bat *Corynorhinus townsendii*	—	SSC	—	Throughout California in a wide variety of habitats. Most common in mesic sites. Requires large cavities for roosting, which may include abandoned buildings and mines, caves, and basal cavities of trees. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	**Not expected to occur.** Roost habitat for this species (i.e., caves, abandoned buildings, large tree cavities) is not present on the project site.
Western mastiff bat *Eumops perotis*	—	SSC	—	Found in a variety of habitats, from desert scrub to chaparral to oak woodland and into the ponderosa pine belt and high elevation meadows of mixed conifer forests. The distribution of this species is likely geomorphically determined, with the species being present only where there are significant rock features offering roosting habitat.	**Not expected to occur.** Roost habitat for this species (i.e., crevices in cliffs, high buildings, tunnels) is not present on the project site.

Name	Federal Status[1]	State Status[1]	SSHCP	Habitat	Potential to Occur on the Project Site
Western red bat *Lasiurus frantzii*	—	SSC	Covered Species	Cismontane woodland, lower montane coniferous forest, riparian forest, riparian woodland Roosts primarily in trees, 2–40 feet above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	**May occur.** Roost habitat for this species may be present in trees on the project site.

General references: Unless otherwise noted all habitat and distribution data provided by CNDDB.

Note: CNDDB = California Natural Diversity Database

[1] Legal Status Definitions

Federal:
FE Endangered (legally protected)
FT Threatened (legally protected)
FP Proposed for listing

State:
SE Endangered (legally protected)
ST Threatened (legally protected)
FP Fully protected (legally protected)
SSC Species of special concern (no formal protection other than CEQA consideration)

Source: CNDDB 2024; Sacramento County et al. 2018; Teichert 2025.

REGULATORY SETTING

FEDERAL

FEDERAL ENDANGERED SPECIES ACT

Pursuant to ESA (16 US Code [USC] Section 1531 et seq.), the US Fish and Wildlife Service (USFWS) and National Oceanic and Atmospheric Administration (NOAA) Fisheries regulate the taking of species listed in ESA as threatened or endangered. In general, people subject to ESA (including private parties) are prohibited from "taking" endangered or threatened fish and wildlife species on private property and from "taking" endangered or threatened plants in areas under federal jurisdiction or in violation of state law. Under Section 9 of ESA, the definition of "take" is to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." NOAA Fisheries and USFWS have also interpreted the definition of "harm" to include significant habitat modification that could result in take. ESA requires that recovery plans be developed that describe the steps necessary to restore the species. Similarly, the act provides for the designation of "critical habitat" when prudent and determinable.

Section 10 of ESA applies if a nonfederal agency is the lead agency for an action that results in take and no other federal agencies are involved in permitting the action. Section 7 of ESA applies if a federal discretionary action is required (e.g., a federal

agency must issue a permit), in which case the involved federal agency consults with USFWS and NOAA Fisheries.

Clean Water Act Section 401 and Section 404

Section 404

Section 404 of the Clean Water Act (CWA) (33 USC Section 1344) prohibits the discharge of dredged or fill material into waters of the United States, including wetlands, except as permitted under separate regulations by the USACE and US Environmental Protection Agency. Fill material is material placed in waters of the United States where the material has the effect of replacing any portion of a water of the United States with dry land or changing the bottom elevation of any portion of a water of the United States. To discharge dredged or fill material into waters of the United States, including wetlands, Section 404 requires projects to receive authorization from the Secretary of the Army, acting through USACE. Waters of the United States include navigable waters of the United States; interstate waters; all other waters where the use, degradation, or destruction of the waters could affect interstate or foreign commerce; tributaries to any of these waters that are relatively permanent standing or continuously flowing bodies of water; and wetlands adjacent to and with a continuous surface connection to these waters. Wetlands are defined as areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Potentially jurisdictional wetlands must meet three wetland delineation criteria: hydrophytic vegetation, hydric soil types, and wetland hydrology. Wetlands that meet the delineation criteria may be jurisdictional under Section 404 of the CWA pending USACE verification.

Section 401

Under Section 401 of the CWA (33 USC Section 1341), an applicant for a Section 404 permit must obtain a certificate from the appropriate state agency stating that the intended dredging or filling activity is consistent with the state's water quality standards and criteria. In California, the authority to grant water quality certification is delegated by the State Water Resources Control Board (SWRCB) to the regional water quality control boards (RWQCBs).

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA), first enacted in 1918, provides for protection of international migratory birds and authorizes the Secretary of the Interior to regulate the taking of migratory birds. MBTA provides that to pursue, take, or kill any migratory bird or any part, nest, or egg of any such bird is unlawful except as permitted by regulations. Under MBTA, "take" is defined as "to pursue, hunt, shoot, wound, kill, trap, capture, or collect, or any attempt to carry out these activities." Take does not include habitat destruction or alteration as long as birds, nests, eggs, or parts thereof are not directly taken. The current list of species protected by MBTA can be found in Title 50 of the Code of Federal Regulations (CFR), Section 10.13 (50 CFR 10.13). The list includes nearly all birds native to the United States.

State

California Endangered Species Act

Pursuant to CESA, a permit from CDFW is required for projects that could result in the "take" of a plant or animal species that is listed by the state as threatened or endangered. Section 2080 of CESA prohibits unauthorized take of state-listed species. Under CESA, "take" is defined as an activity that would directly or indirectly kill an individual of a species, but does not include "harm" or "harass," as does the federal definition. As a result, the threshold for take is higher under CESA than under ESA.

California Fish and Game Code

Protection of Bird Nests and Raptors

Section 3503 of the Fish and Game Code states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird. Section 3503.5 of the California Fish and Game Code states that it is unlawful to take, possess, or destroy any raptors (i.e., species in the orders Falconiformes and Strigiformes), including their nests or eggs. Typical violations include destruction of active nests as a result of tree removal or disturbance caused by project construction or other activities that cause the adults to abandon the nest, resulting in loss of eggs or young.

Fully Protected Species

The regulation of fully protected species is described in Sections 3511, 4700, 5050, and 5515 of the California Fish and Game Code. These statutes prohibit take or possession of fully protected species and generally do not provide for authorization of incidental take unless the species is covered and conserved in a natural community conservation plan (NCCP), or the project activities qualify for incidental take permitting under Section 2080.15 of the California Fish and Game Code. CDFW's fully protected status was California's first attempt to identify and protect animals that were rare or facing extinction. Most species listed as fully protected were eventually listed as threatened or endangered under CESA; however, some species remain listed as fully protected but do not have simultaneous listing under CESA.

Lake and Streambed Alteration

All diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake in California that supports wildlife resources are subject to regulation by CDFW under Section 1602 of the California Fish and Game Code. Section 1602 makes it unlawful for any person, governmental agency, or public utility to do the following without first notifying CDFW:

- substantially divert or obstruct the natural flow of or substantially change or use any material from the bed, channel, or bank of any river, stream, or lake; or
- deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake.

The regulatory definition of a stream is a body of water that flows at least periodically or intermittently through a bed or channel that has banks and supports fish or other aquatic life. This definition includes watercourses with a surface or subsurface flow that supports or has supported riparian vegetation (California Code of Regulations [CCR] Title 14, Section 1.72). CDFW jurisdiction within altered or artificial waterways is based on the value of those waterways to fish and wildlife. A CDFW streambed alteration agreement must be obtained for any action that would result in an impact on a river, stream, or lake.

California Native Plant Protection Act

State listing of plant species began in 1977 with the passage of the California Native Plant Protection Act (NPPA), which directed CDFW to carry out the legislature's intent to "preserve, protect, and enhance endangered plants in this state." NPPA gave the California Fish and Game Commission the power to designate native plants as endangered or rare and to require permits for collecting, transporting, or selling such plants. CESA expanded on the original NPPA and enhanced legal protection for plants. CESA established threatened and endangered species categories and grandfathered all rare animals—but not rare plants—into the act as threatened species. Thus, three listing categories for plants are employed in California: rare, threatened, and endangered. Sixty-four species, subspecies, and varieties of plants are protected as rare under NPPA. The act prohibits take of endangered or rare native plants but includes exceptions for agricultural and nursery operations; for emergencies; and, after proper notification to CDFW, for vegetation removal from canals, roads, and other building sites; changes in land use; and other situations.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act requires that each of the nine RWQCBs in California prepare and periodically update basin plans for water quality control. Each basin plan sets forth water quality standards for surface water and groundwater, as well as actions to control nonpoint and point sources of pollution to achieve and maintain these standards. Basin plans offer an opportunity to protect wetlands through the establishment of water quality objectives. The jurisdiction of the RWQCBs includes waters of the United States, as well as areas that meet the definition of "waters of the state." "Waters of the state" is defined as any surface water or groundwater, including saline waters, within the boundaries of the state. The RWQCB has the discretion to take jurisdiction over areas not federally protected under CWA Section 404 provided they meet the definition of waters of the state. SWRCB published a new set of procedures for discharges of dredged or fill material into waters of the state on March 22, 2019. Mitigation requiring no net loss of wetlands functions and values of waters of the state typically is required by the RWQCB.

LOCAL

SACRAMENTO COUNTY 2030 GENERAL PLAN

The following 2030 General Plan policies would apply to the proposed project.

- **Policy CO-58.** Ensure no net loss of wetlands, riparian woodlands, and oak woodlands.
- **Policy CO-59.** Ensure mitigation occurs for any loss of or modification to the following types of acreage and habitat function:
  - vernal pools,
  - wetlands,
  - riparian,
  - native vegetative habitat, and
  - special-status species habitat.
- **Policy CO-60.** Mitigation should be directed to lands identified on the Open Space Vision Diagram and associated component maps (please refer to the Open Space Element).
- **Policy CO-61.** Mitigation should be consistent with Sacramento County-adopted habitat conservation plans.
- **Policy CO-62.** Permanently protect land required as mitigation.
- **Policy CO-66.** Mitigation sites shall have a monitoring and management program including an adaptive management component including an established funding mechanism. The programs shall be consistent with Habitat Conservation Plans that have been adopted or are in draft format.
- **Policy CO-68.** Preserves shall be planned and managed to the extent feasible so as to avoid conflicts with adjacent agricultural activities (Please also refer to the Agricultural Element).
- **Policy CO-138.** Protect and preserve non-oak native trees along riparian areas if used by Swainson ’s hawk, as well as landmark and native oak trees measuring a minimum of 6 inches in diameter or 10 inches aggregate for multi-trunk trees at 4.5 feet above ground.
- **Policy CO-139.** Native trees other than oaks, which cannot be protected through development, shall be replaced with in-kind species in accordance with established tree planting specifications, the combined diameter of which shall equal the combined diameter of the trees removed.
- **Policy CO-145.** Removal of nonnative tree canopy for development shall be mitigated by creation of new tree canopy equivalent to the acreage of nonnative tree canopy removed. New tree canopy acreage shall be calculated using the 15-year shade cover values for tree species.

Sacramento County Tree Preservation Ordinance

The Sacramento County Tree Preservation Ordinance provides protection for trees within the designated urban area of the unincorporated area of Sacramento County. The Tree Preservation Ordinance applies only to the designated urban area, except for projects that require a discretionary land use entitlement, such as a parcel map. The project site is not within this designated urban area. The ordinance defines “trees” as living native oak trees having at least one trunk of six inches or more in diameter measured four and one-half feet above the ground, or a multi-trunked native oak tree having an aggregate diameter of ten inches or more, measured four and one-half feet above the ground. The ordinance gives the County authority to mandate a variety of control measures to mitigate damage to oak trees caused by land development.

South Sacramento County Habitat Conservation Plan

The SSHCP is a regional approach to conserving species and addressing issues related to urban development, habitat conservation, open space preservation, and agricultural protection. To develop the SSHCP, the County is partnered with Rancho Cordova, Galt, the Sacramento Regional County Sanitation District, the Capital Southeast Connector Joint Powers Authority, and the Sacramento County Water Agency. The intent of the SSHCP is to minimize regulatory hurdles and streamline the permitting process for projects that engage in development-related activities inside the urban development area (UDA). The UDA generally corresponds to land within the county’s urban service boundary, and to land within the city limits of Rancho Cordova and Galt, and Galt’s adopted sphere of influence. The SSHCP consolidates environmental efforts to protect and enhance vernal pool habitat and other aquatic and upland habitats to provide ecologically viable conservation areas in south Sacramento County for numerous species. The SSHCP provides a mechanism by which the County and its partners are authorized to issue permits that allow landowners to engage in specific development activities (Covered Activities) that could result in the incidental take of listed species (covered species). The intent is that the County and its partners have adopted a developer-paid fee system based on loss of habitat acreage, habitat type, and long-term management costs. Fees are used to fund the habitat preservation, restoration, and management elements of the SSHCP. The final SSHCP and supporting EIR/EIS were approved and certified, respectively, by the County Board of Supervisors and the issuance of permits by the resource agencies has been completed.

Covered Activities include activities and projects related to urban development and associated infrastructure. Covered Activities are allowable under the SSHCP’s Incidental Take Permits and can use the SSHCP to mitigate impacts that result from implementation of the Covered Activity. Covered Activities must comply with all SSHCP requirements, including SSHCP avoidance and minimization measures (AMMs).

The SSHCP calls for the preservation of land within the Preserve Planning Unit (PPU) that encompass areas where important SSHCP covered species resources are present. The SSHCP Conservation Strategy is based on the principles of conservation biology and landscape ecology and the nature, quality, and geographic distribution of the

resources in the SSHCP plan area. The SSHCP plan area was divided into eight PPUs to assist with the development of an adequate SSHCP Conservation Strategy.

The project site is located in the SSHCP Plan Area, in the SSHCP UDA. Mining activities, including development related to the extraction of resources and construction of associated infrastructure, buildings, and facilities, are considered covered activities.

Sacramento County Swainson's Hawk Ordinance

Chapter 16.130 of Title 16 of the Sacramento County Code addresses the reduction in Swainson's hawk foraging habitat within unincorporated Sacramento County. Participating in the County's Swainson's Hawk Mitigation Program, which is voluntary, is one option for mitigating the loss of foraging habitat within unincorporated areas of the county. Under this program, mitigation for impacts less than 40 acres can be achieved by paying a mitigation fee or providing replacement habitat (title or easement to suitable Swainson's hawk mitigation lands on a per-acre basis); mitigation for impacts of 40 acres or greater can be achieved only by providing replacement habitat under this program (e.g., provide title or easement to approved Swainson's hawk mitigation lands, pay a per-acre endowment fee not to exceed $3,500 per acre). Other mitigation options usually involve working on an individual basis with CDFW. For example, participation in a CDFW-approved conservation bank with available credits for Swainson's hawk foraging habitat could meet mitigation requirements.

Participation in the SSHCP (described above) for covered activities replaces the requirement to comply with the provisions of the Swainson's Hawk Mitigation Program, because payment of fees in accordance with the SSHCP would also mitigate for impacts on Swainson's hawk foraging habitat.

Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project because the project site is within the plan area.

Vineyard Community Plan

The Vineyard Community Plan does not contain policies related to biological resources that would apply to the proposed project.

Significance Criteria and Methodology

Significance Criteria

Based on Appendix G of the State CEQA Guidelines, impacts on biological resources would be significant if implementation of the proposed project would:

- have a substantial adverse effect on any special-status species, either directly or through habitat modifications, on any species as identified as a candidate,

sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or by USFWS;

- have a substantial adverse effect on any riparian habitat or other sensitive natural community, identified in local or regional plans, policies, regulations or by CDFW or by USFWS;
- have a substantial adverse effect on state or federally protected wetlands (including but not limited to, marsh, vernal pool, coastal, etc.), through direct removal, filling, hydrological interruption, or other means;
- adversely affect or result in the removal of native or landmark trees;
- conflict with any local policies or ordinances protecting biological resources;
- have a substantial adverse effect on the movement of any native resident of migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites; or
- conflict with the provisions of an adopted Habitat Conservation Plan, natural community conservation plan, or other approved local, regional, state or federal plan for the conservation of habitat.

Issues Not Discussed Further

All the issues identified in the significance criteria are addressed in the following analysis.

Methodology

The methodologies used to determine significance rely on documents published by or endorsed by regulatory agencies. The applicable documents and methods are cited and described in the applicable impact discussions below. In the absence of such published documents, the analyses rely on the general definitions of significance. In addition, information from the BRA prepared for the proposed project (Teichert 2025; Appendix D of this SEIR) have been incorporated into the analysis as appropriate.

Impacts and Analysis

Impact BR-1: Have a substantial adverse effect on special-status species

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project would result in potentially significant impacts related to special-status plants and species and included the following mitigation measures:

- Sanford's Arrowhead – Mitigation Measure BR-1.1 (transplant no less than 40 plugs to suitable habitat, preferably within the Elder Creek watershed, with survey requirements);

- habitat for vernal pool invertebrates – Mitigation Measure BR-1.2 (USFW protocol survey to conclude if species is absent and follow up measures);
- Western Spadefoot Toad – Mitigation Measure BR-1.3 (Pre-ground disturbing survey in habitat area and follow up measures);
- Western Pond Turtle – Mitigation Measure BR-1.4 (Pre-ground disturbing survey in habitat area and follow up measures);
- Swainson's Hawk, Northern Harrier, and Other Raptors – Mitigation Measure BR-1.5 (Pre-construction/mining surveys and follow up measures);
- Nesting or Roosting Burrowing Owl – Mitigation Measure BR-1.6 (Pre-mining survey and follow up measures);
- Nesting Birds Protected Under the Migratory Bird Treaty Act – Mitigation Measure BR-1.7 (Pre-construction/mining surveys and follow up measures);
- Loss of Foraging Habitat for Tricolored Blackbird, White-Tailed Kite and Swainson's Hawk – Mitigation Measure BR-1.8 (mitigate for the loss of foraging habitat at 1:1 ratio based on options)
- Disturbance to Nesting Loggerhead Shrike – Mitigation Measure BR-1.9 (Pre-construction/mining surveys and follow up measures);
- Disturbance to Nesting or Roosting Yellow-Billed Magpie – Mitigation Measure BR-1.10 (Pre-construction/mining surveys and follow up measures);
- Disturbance to Nesting Tricolored Blackbird – Mitigation Measure BR-1.11 (Pre-construction/mining surveys and follow up measures);
- Loss of Foraging Habitat for Tricolored Blackbird – Mitigation Measure BR-1.12 (mitigate for the loss of foraging habitat at 1:1 ratio based on options)

Therefore, the 2016 Final EIR determined impacts on special-status species would be reduced to less than significant with implementation of Mitigation Measures BR-1.1 through BR-1.12 (Impact Evaluation BR-1).

At the time of preparation of this SEIR, the requirements of Adopted 2016 Final EIR Mitigation Measure BR-1.1, which required the transplantation of the Sanford's arrowhead colonies that were observed growing on the Aspen VIII mining area during protocol-level surveys conducted for the 2016 Final EIR to Teichert's nearby Aspen III-South and Aspen IV-South properties, have been met by the project applicant. Additionally, the requirements of Mitigation Measures BR-1.8 and BR-1.12, which require either land dedication or fee payment at a 1:1 ration as mitigation for loss of foraging habitat for Tricolored Blackbird, White-Tailed Kite and Swainson's Hawk, have also been met by the project applicant at the time of preparation of this SEIR. Furthermore, the project applicant is continuing to implement Mitigation Measures BR-1.2 through BR-1.7 and BR-1.9 through BR-1.11, which require species-specific surveys and avoidance and/or other implementation measures, with continued operation of the approved project.

PROPOSED PROJECT IMPACT EVALUATION

SPECIAL-STATUS PLANTS

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. As discussed in "Environmental Setting," a protocol-level survey for special-status plants was conducted of the Aspen VIII and IX Expansion Areas by EcoSynthesis Scientific and Regulatory Services Inc. between April and May of 2024, and no special-status plants were found (Teichert 2025). Therefore, surface mining and reclamation activities associated with the proposed project would not affect special-status plant species within the Aspen VIII and IX Expansion Areas and impacts would be less than significant. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts on special-status plants would not be substantial and the overall impact would be reduced to **less than significant** since the requirements of Adopted 2016 Final EIR Mitigation Measure BR-1.1 from the 2016 Final EIR have been met by the project applicant.

SPECIAL-STATUS WILDLIFE

Expanded surface mining and reclamation activities associated with implementation of the proposed project could result in disturbance or direct loss of special-status wildlife species through removal of habitat, ground disturbance, vegetation removal, or excessive noise within the Aspen VIII and IX Expansion Areas. As discussed in "Environmental Setting," 13 of the 16 special-status wildlife species that are known to or may occur within the project site are covered species under the SSHCP (i.e., western spadefoot, western burrowing owl, ferruginous hawk, loggerhead shrike, northern harrier, Swainson's hawk, tricolored blackbird, white-tailed kite, midvalley fairy shrimp, Ricksecker's water scavenger beetle, vernal pool fairy shrimp, vernal pool tadpole shrimp, and western red bat).

Because the project site is located in the UDA of the SSHCP plan area and surface mining activities are considered Covered Activities under the SSHCP, the project applicant would be required to participate in the SSHCP as a third-party project proponent. To ensure the project applicant's participation in the SSHCP for these 13 covered species, the proposed project would be required to implement New Mitigation Measure BR-1.13, which requires the project applicant to participate and comply with the SSHCP, including submitting an application, payment of all applicable mitigation fees, and complying with all applicable AMMs. With the adoption of the SSHCP by Sacramento County as a mitigating biological resources plan, which was not adopted at the time of adoption of the 2016 Final EIR, implementation of New Mitigation Measure BR-1.13 would replace Adopted 2016 Final EIR Mitigation Measures BR-1.2 through BR-1.6, BR-1.8, BR-1.9, BR-1.11, and BR-1.12 from the 2016 Final EIR established to mitigate impacts on these 13 covered species associated with SSHCP

(i.e., these eight Adopted 2016 Final EIR Mitigation Measures would not be applicable to the proposed project).

In addition, as a candidate for listing under CESA, take of western burrowing owls is currently prohibited. To ensure the project applicant avoids take of western burrowing owls, the proposed project would be required to implement New Mitigation Measure BR-1.14, which requires the project applicant to avoid take of western burrowing owl until incidental take authorization may be obtained through participation in the SSHCP. Since the designation of western burrowing owl has changed since the adoption of the 2016 Final EIR, New Mitigation Measure BR-1.14 would replace Adopted 2016 Final EIR Mitigation Measure BR-1.6, which may result in take of burrowing owls because it includes the option to passively relocate individuals (i.e., Adopted 2016 Final EIR Mitigation Measure BR-1.6 would not be applicable to the proposed project).

While the SSHCP would cover the majority of the special-status wildlife species that are known to or may occur within the project site, implementation of the proposed project would have the potential to adversely affect a small number of special-status wildlife species not covered by the SSHCP that could occur on the project site, including Crotch's Bumble bee, monarch butterfly, and pallid bat, as well as nesting birds protected by MBTA and California Fish and Game Code.

CROTCH'S BUMBLE BEE

Crotch's bumble bee is a candidate for listing under CESA. A focused survey for bumble bees was conducted on the project site in 2024, and Crotch's bumble bees were not observed (Teichert 2025). However, the species could occupy the project site in the future, and valley grassland habitat on the project site likely provides foraging and nesting habitat suitable for this species. Ground disturbance associated with project implementation could crush underground nest colonies and result in loss of Crotch's bumble bees.

MONARCH BUTTERFLY

Monarch butterfly is proposed for listing under ESA. Two species of milkweed (*Asclepias eriocarpa* and *Asclepias fascicularis*), have been observed on the project site which may provide breeding habitat for monarch butterfly, as well as a modest diversity of wildflowers which may provide nectar sources for adults (Teichert 2025). Ground disturbance and vegetation removal associated with project implementation could result in loss of breeding and foraging habitat for monarch butterflies or direct loss of eggs or larvae on milkweed plants.

PALLID BAT

Pallid bat is a CDFW species of special concern. Roost habitat for this species may be present in trees on the project site. Tree removal associated with project implementation could result in disturbance or loss of active pallid bat roosts, if present.

To ensure implementation of the proposed project would not adversely affect these special-status wildlife species, New Mitigation Measure BR-1.15, which includes survey, avoidance measures, and incidental take permit requirements for Crotch's bumble bee;

New Mitigation Measure BR-1.16, which includes survey, avoidance measures, and milkweed transplantation requirements for monarch butterfly; and New Mitigation Measure BR-1.17, which includes applies the SSHCP AMMs for western red bat to pallid bats, would be implemented. In addition, the proposed project would also implement Adopted 2016 Final EIR Mitigation Measure BR-1.7, which requires protection of native nesting birds not otherwise considered special-status species. Implementation of these mitigation measures would ensure that the expanded surface mining and reclamation activities within the Aspen VIII and IX Expansion Areas would not adversely affect Crotch's Bumble bee, monarch butterfly, and pallid bat, as well as nesting birds protected by MBTA and California Fish and Game Code.

Therefore, implementation of Adopted 2016 Final EIR Mitigation Measure BR-1.7 and New Mitigation Measures BR-1.13 through BR-1.17 would ensure that the proposed project would not adversely affect special-status species. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts on special-status wildlife species would not be substantial and the overall impacts would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measure BR-1.7 and New Mitigation Measures BR-1.13, BR-1.14, BR-1.15, BR-1.16, and BR-1.17.

ADOPTED 2016 FINAL EIR MITIGATION MEASURE BR-1.7: NESTING BIRDS PROTECTED UNDER THE MIGRATORY BIRD TREATY ACT MITIGATION MEASURE

A. If mining activity or construction activity (which includes clearing, grubbing, or grading) is to commence within 50 feet of nesting habitat between February 1 and August 31, a survey for active migratory bird nests shall be conducted no more than 14 day prior to construction by a qualified biologist.

B. Trees slated for removal shall be removed during the period of September through January, in order to avoid the nesting season. Any trees that are to be removed during the nesting season, which is February through August, shall be surveyed by a qualified biologist and will only be removed if no nesting migratory birds are found.

C. If active nest(s) are found in the survey area, a non-disturbance buffer, the size of which has been determined by a qualified biologist, shall be established and maintained around the nest to prevent nest failure. All construction activities shall be avoided within this buffer area until a qualified biologist determines that nestlings have fledged, or until September 1.

New Mitigation Measure BR-1.13: Participate in the South Sacramento Habitat Conservation Plan Mitigation Measure

Prior to initiation of expanded surface mining activities on the project site, the project applicant shall submit an application to participate in the SSHCP. The project applicant shall obtain a USACE Section 404 permit, RWQCB 401 water quality certification, and incidental take permitting for listed covered species from CDFW and USFWS through participation in the SSHCP. The project applicant shall pay all applicable mitigation fees and shall implement all applicable AMMs. Applicable AMMs include construction best management practices (AMMs BMP-1 through BMP-11), Elder Creek stream setbacks (AMM STREAM-2), general covered species take AMMs (SPECIES-1 through SPECIES-4), covered species AMMs, any other AMMs determined to be required during the application and approval process. Applicable covered species AMMs are those required for the following species: western spadefoot (AMMs WS-1 through WS-6), tricolored blackbird (AMMs TCB-1 through TCB-5), Swainson's hawk (AMMs SWHA-1 through SWHA-5), western burrowing owl (AMMs WBO-1 through WBO-7), covered raptor species (loggerhead shrike, northern harrier, and white-tailed kite; AMMs RAPTOR-1 through RAPTOR-4), and western red bat (AMMs BAT-1 through BAT-4).

New Mitigation Measure BR-1.14: Avoid Take of Western Burrowing Owls

- On October 10, 2024, the California Fish and Game Commission accepted a petition to list western burrowing owl under CESA and designated the species as a candidate species. Pursuant to CESA, take of candidate species is prohibited. While western burrowing owl is a covered species under the SSHCP, the plan's CDFW 2081 Incidental Take Permit (ITP) does not include take coverage for the species. Pursuant to the SSHCP, the potential listing of western burrowing owl under CESA would be considered a changed circumstance that will trigger review by the SSHCP Technical Advisory Committee and an eventual amendment that will likely result in a change to the SSHCP, and addition of western burrowing owl to the SSHCP CDFW 2081 ITP.
- In the interim period during which take coverage for western burrowing owl is not available through participation in the SSHCP, to avoid take of owls, the project applicant shall implement SSHCP AMMs for western burrowing owl except for AMM WBO-5, which describes passive relocation of burrowing owls, which would be considered take under CESA.
- If take of western burrowing owls cannot be avoided and take coverage is not available through participation in the SSHCP, the project applicant shall obtain a separate 2081 ITP for the species prior to implementing project activities that could result in take of western burrowing owls. The impacts of taking burrowing owl shall be minimized and fully mitigated.

New Mitigation Measure BR-1.15: Implement Habitat Assessment, Survey, and Avoidance Measures for Crotch's Bumble Bees

- Initial ground-disturbing work (e.g., grading, vegetation removal, staging) shall take place between August 15 and March 15, if feasible, to avoid impacts on nesting Crotch's bumble bees.
- Regardless of the feasibility of the above limited operating period, a qualified biologist familiar with bumble bees of California and experienced using survey methods for bumble bees shall conduct a habitat assessment and focused survey for Crotch's bumble bee before the start of any ground-disturbing activities. Surveys shall be performed when Crotch's bumble bee is most likely to be identified, typically from April through August (i.e., the colony active period) when floral resources and ideal weather conditions are present, and shall follow the methods in Survey Considerations for CESA Candidate Bumble Bee Species (CDFW 2023). Surveys shall be conducted during the colony active period closest to the start of planned construction activities. Survey results shall be submitted to the project applicant and Sacramento County no less than 7 days before construction begins.
- If Crotch's bumble bees are not detected during the focused survey, further mitigation shall not be required.
- If Crotch's bumble bees are detected during the focused survey, the project applicant shall notify CDFW and Sacramento County within 24 hours of the detection, and appropriate avoidance measures shall be implemented. Avoidance measures shall include, but not be limited to, the following:
    - Protective buffers shall be implemented around active nesting colonies until these sites are no longer active. A qualified biologist, in coordination with CDFW, shall determine the appropriate buffer size to protect nesting colonies; however, the buffer shall be a minimum of 50 feet.
    - If impacts on Crotch's bumble bee cannot be avoided, project applicant shall obtain an ITP from CDFW and shall implement all avoidance measures included in the ITP.
    - If Crotch's bumble bee is added to the SSHCP as a covered species at a later date, any AMMs associated with this species shall supersede these measures. If Crotch's bumble bee is added to SSHCP CDFW ITP at a later date, the project applicant shall obtain incidental take coverage for this species through participation in the SSHCP.

New Mitigation Measure BR-1.16: Avoid Removal of Milkweed during the Monarch Butterfly Breeding Season, Conduct Survey, Implement Avoidance Measures for Breeding Monarch Butterfly, or Transplant Milkweed Plants

- Removal of milkweed plants on the project site shall be avoided during the period when monarch butterfly are most likely to breed in the Sacramento region (approximately mid-March through late September). Milkweed plants on the project site that would be affected by project activities shall be transplanted during the period from October 1 through March 15, to an appropriate receptor site such as the nearby Elder Creek Preserve. If transplantation is completed prior to March 15, then further mitigation would not be required. Transplants shall be monitored for survivorship, and container stock or field-seeded plants shall be planted to achieve a net success rate of 70 percent of the number of original transplants at the end of a three-year monitoring period.
- If the milkweed transplantation option above is not selected and vegetation removal would occur on the project site during the monarch butterfly breeding season (approximately mid-March through late September), a pre-construction survey shall be conducted by a qualified biologist no earlier than 10 days prior to vegetation removal within the proposed impact area plus a 50-foot buffer in accessible areas. The biologist shall comprehensively search the impact area and buffer for milkweed plants, and all milkweed plants detected shall be surveyed for monarch butterfly eggs, larvae (caterpillars), and chrysalises. Other plants (i.e., non-milkweed species) immediately adjacent to milkweed plants shall also be searched for chrysalises.
    - If no eggs, caterpillars, or chrysalises are detected, further mitigation would not be required.
    - If eggs, caterpillars, or chrysalises are detected, a 50-foot buffer shall be established around the plants to prevent removal and indirect impacts until metamorphosis is completed and adult butterflies emerge and voluntarily leave the host plant. If the eggs, larvae, or chrysalises cannot be feasibly avoided during this period, all eggs, larvae, and chrysalises, including the portion of the plant to which they are attached, will be translocated to an alternative location. That location must be a minimum of 50 feet outside of the impact area and contain a similarly sized or larger population of milkweed host plants. The parts of the plants supporting eggs or chrysalises shall be tied to the live stem of the receptor plant and caterpillars will be placed directly on a stem or leaf of the receptor plant.
    - Should monarch butterfly be listed under ESA in the future during the life of the project, the project applicant shall coordinate with USFWS prior to translocation of eggs, larvae, or chrysalises to determine whether additional measures are required.

New Mitigation Measure BR-1.17: Implement Survey, Roost Buffer, and Exclusion Methods for Pallid Bat

The project applicant shall apply SSHCP AMMs BAT-1 through BAT-4 (which are required under the SSHCP for western red bat) to pallid bat.

Impact BR-2: Have a substantial adverse effect on any riparian habitat or other sensitive natural community

2016 Final EIR Determination

The 2016 Final EIR determined implementation of the approved project would result in a less-than-significant impact related to riparian habitat and other sensitive natural communities given the lack of sensitive natural communities and lack of riparian habitat on or adjacent to the project site (Impact Evaluation BR-2).

Proposed Project Impact Evaluation

While the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres, the Aspen VII and IX Expansion Areas do contain riparian habitat and activities in these areas would not result in impacts on the Elder Creek corridor (i.e., the conveyor would cross above Elder Creek, but no ground disturbance would occur in or adjacent to Elder Creek). However, while the Aspen VII and IX Expansion Areas contain vernal pool habitat, which is considered a sensitive natural community, the potential for the proposed project to impact vernal pool habitat is discussed under Impact BR-3 below, because they are also primarily considered as wetlands. Therefore, since the Aspen VII and IX Expansion Areas do not contain riparian habitat, implementation of the proposed project would result in less than significant impacts on riparian habitat and other sensitive natural communities. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

Mitigation Measures

No mitigation is required.

Impact BR-3: Have a substantial adverse effect on state or federally protected wetlands

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project would result in the loss of 5.386 acres of wetlands, including vernal pool, seasonal wetland, seasonal swale, freshwater marsh, perennial stream, ephemeral stream, pond and ditch wetland habitats, which is considered potentially significant impacts related to wetlands and waters of the United States. The 2016 Final EIR included Mitigation Measure BR-3

to ensure the loss in acreage of wetlands were directly mitigated on a 1:1 basis through either placement of a permanent conservation easement, purchase of credits from a mitigation bank, or other similar methods. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure BR-3 (Impact Evaluation BR-3).

At the time of preparation of this SEIR, the requirements of Mitigation Measures BR-3 have been met by the project applicant.

Proposed Project Impact Evaluation

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres. Surface mining activities associated with implementation of the proposed project would result in removal of 16.14 acres of wetlands, including 16.1 acres of vernal pools and 0.04 acres of open water land cover (a seasonal pond) within the Aspen VIII and IX Expansion Areas, which is considered a potentially significant impact. While the proposed project would extend the existing conveyor belt system over Elder Creek, the 0.04 acres of stream/creek habitat within the small corridor over Elder Creek would not be removed with implementation of the proposed project. This is because the existing conveyor system would be extended over the creek, where the stream/creek habitat would remain intact for the lifetime of the proposed project and would return to existing conditions once the conveyor belt system is removed as part of final reclamation.

While Adopted 2016 Final EIR Mitigation Measure BR-3 was previously established to mitigate impacts on wetlands, the SSHCP has been adopted since certification of the 2016 Final EIR, which has measures in place to mitigate for impacts on wetlands. Specifically, the SSHCP includes the USACE Letter of Permission Procedure for Covered Activities under the South Sacramento Habitat Conservation Plan with Less than Significant Impacts on the Human Environment, which requires compliance with SSHCP AMMs and allows participants to mitigate impacts on wetlands through the payment of SSHCP fees; a portion of which is paid into the USACE- and RWQCB-approved South Sacramento In-Lieu Fee Program. Therefore, to ensure the project applicant's participation in the SSHCP to mitigate for impacts on wetlands, the proposed project would be required to implement New Mitigation Measures BR-3.2 and BR-1.13, which require the project applicant obtain all applicable permits, including USACE Section 404 permit, and compensate for impacts on state protected wetlands or waters as required by the SSHCP AMMs. New Mitigation Measures BR-3.2 and BR-1.13 would replace Adopted 2016 Final EIR Mitigation Measure BR-3 to mitigate for impacts on wetlands (i.e., Adopted 2016 Final EIR Mitigation Measure BR-3 would not be applicable to the proposed project).

In addition, the SWRCB adopted a State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Procedures) in April 2021 in part to strengthen protection of waters of the state that may not be protected under the CWA. These Procedures were adopted after certification of the 2016 Final EIR; therefore, Adopted 2016 Final EIR Mitigation Measure BR-3 did not reference the Procedures. While participation in the SSHCP would provide permitting for impacts on

waters of the United States, the project applicant would also need to obtain any required permits from RWQCB and CDFW for impacts on waters of the state subject to the RWQCB or CDFW jurisdiction. As discussed above, the proposed project would be required to implement New Mitigation Measure BR-3.2, which includes the permitting requirements for impacts on state protected wetlands or waters that the project applicant shall implement prior to implementation of the proposed project.

As such, implementation of New Mitigation Measures BR-3.2 and BR-1.13 would reduce impacts on wetlands associated with implementation of the proposed project to a less than significant level. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts on wetlands would not be substantial and the overall impact would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement New Mitigation Measures BR-3.2 and BR-1.13.

NEW MITIGATION MEASURE BR-3.2: OBTAIN PERMITS AND COMPENSATE FOR IMPACTS ON STATE PROTECTED WETLANDS OR WATERS

- For impacts on waters of the state that are not also waters of the United States and are therefore not covered by the 401 Water Quality Certification or 404 permit provided through participation in the SSHCP, the project applicant shall apply to the RWQCB for Waste Discharge Requirements following the *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (SWRCB 2021). Any waters of the state that are not also waters of the United States that would be affected by the project shall be replaced or restored on a no-net-loss basis in accordance with the applicable California Water Board mitigation standards in place at the time of construction.
- The project applicant shall notify CDFW before commencing activity that may divert the natural flow or otherwise alter the bed, bank, or riparian corridor of any 1602 jurisdictional waterway. If project activities trigger the need for a Lake and Streambed Alteration Agreement, the project applicant shall obtain an agreement from CDFW before the activity commences. The project applicant shall conduct project construction activities in accordance with the agreement, including implementing reasonable measures in the agreement necessary to protect the fish and wildlife resources, when working within the bed or bank of waterways or in riparian habitats associated with those waterways. These measures may include but not be limited to demarcation of the construction area, biological monitoring, environmental awareness training for construction crews, and compensatory measures (e.g., restoration, long-term habitat management) such that there would be no net loss.

IMPACT BR-4: ADVERSELY AFFECT OR RESULT IN THE REMOVAL OF NATIVE OR LANDMARK TREES

2016 FINAL EIR DETERMINATION

The Final EIR determined that implementation of the approved project would result in the removal of native trees (valley oaks at 23 inches and California black walnuts at 157 inches) and 1.574 acres of tree canopy, which is considered a potentially significant impact. The 2016 Final EIR included Mitigation Measure BR-4, which requires the project applicant to compensate for the removal of native oak and California black walnut trees and the 1.574 acres of tree canopy, development of a Replacement Tree Planting Plan, and protective measures for trees that would be retained. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure BR-4 (Impact Evaluation BR-4).

At the time of preparation of this SEIR, the requirements of Mitigation Measures BR-4 have been met by the project applicant.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres. Surface mining activities associated with implementation of the proposed project would result in removal of 20 native trees of sufficient size (i.e., greater than 6 inches DBH) regulated by the Sacramento County Tree Preservation Ordinance, with a cumulative total of 313.1 inches (refer to Attachment C in Appendix D). In addition, a total of 0.53 acres of protected native and nonnative tree canopy may be adversely affected by implementation of the proposed project. Therefore, the proposed project would result in potentially significant impacts on native and landmark trees.

To mitigate impacts on protected trees and native and nonnative tree canopy, the proposed project would implement New Mitigation Measures BR-4.1 and BR-4.2, which are based on the amount of affected native trees and tree canopy acreage identified in the BRA prepared for the proposed project, which differs from the impacts of the approved project evaluated in the 2016 Final EIR. New Mitigation Measures BR-4.1 requires compensation for the removal of 313.1 inches of native trees; development of a Replacement Tree Planting Plan, including replacement of affected protected native trees; and incorporation of protective measures for trees that are to be retained in place within the project site. New Mitigation Measures BR-4.2 requires protection or compensation for the removal of 0.53 acres of native and nonnative tree canopy. Therefore, with implementation of New Mitigation Measures BR-4.1 and BR-4.2, impacts would be reduced to less than significant.

As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts on native or landmark trees would not be substantial and the overall impact would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement New Mitigation Measures BR-4.1 and BR-4.2.

NEW MITIGATION MEASURE BR-4.1: PROPOSED PROJECT NATIVE TREE PROTECTION AND/OR COMPENSATION MITIGATION MEASURE

The removal of 313.1 inches of native trees shall be compensated by planting native trees equivalent to the DBH inches lost, based on the ratios listed below, at locations that are authorized by the Environmental Coordinator. On-site preservation of native trees that are less than 6 inches (<6 inches) DBH, may also to meet this compensation requirement. Native trees include: valley oak (*Quercus lobata*), interior live oak (*Quercus wislizeni*), blue oak (*Quercus douglasii*), oracle oak (*Quercus morehus*), California sycamore (*Platanus racemosa*), California black walnut (*Juglans californica*), Oregon ash (*Fraxinus latifolia*), western redbud (*Cercis occidentalis*), gray pine (*Pinus sabiniana*), California white alder (*Alnus rhombifolia*), boxelder (*Acer negundo*), California buckeye (*Aesculus californica*), narrowleaf willow (*Salix exigua*), Gooding's willow (*Salix gooddingii*), red willow (Sa*lix laevigata*), arroyo willow (*Salix lasiolepis*), shining willow (*Salix lucida*), Pacific willow (*Salix lasiandra*), and dusky willow (*Salix melanopsis*).

A total of 313.1 inches of native trees will require compensation. Equivalent compensation based on the following ratio is required:

- one preserved native tree < 6 inches DBH on-site = 1 inch DBH
- one D-pot seedling (40 cubic inches or larger) = 1 inch DBH
- one 15-gallon tree = 1 inch DBH
- one 24-inch box tree = 2 inches DBH
- one 36-inch box tree = 3 inches DBH

Prior to the approval of Work Authorization Permit for the proposed project, a Replacement Tree Planting Plan shall be prepared by a certified arborist or licensed landscape architect and shall be submitted to the Environmental Coordinator for approval. The Replacement Tree Planting Plan(s) shall include the following minimum elements:

1. Species, size and locations of all replacement plantings and < 6-inch DBH trees to be preserved
2. Method of irrigation
3. If planting in soils with a hardpan/duripan or claypan layer, include the Sacramento County Standard Tree Planting Detail L-1, including the 10-foot-deep boring hole to provide for adequate drainage
4. Planting, irrigation, and maintenance schedules;

5. Identification of the maintenance entity and a written agreement with that entity to provide care and irrigation of the trees for a 3-year establishment period, and to replace any of the replacement trees which do not survive during that period.
6. Designation of 20-foot root zone radius and landscaping to occur within the radius of trees < 6 inches DBH to be preserved on-site.

No replacement tree shall be planted within 15 feet of the driplines of existing native trees or landmark size trees that are retained on-site, or within 15 feet of a building foundation or swimming pool excavation. The minimum spacing for replacement native trees shall be 20 feet on-center. Examples of acceptable planting locations are publicly owned lands, common areas, and landscaped frontages (with adequate spacing). Generally unacceptable locations are utility easements (public utility easements [PUE], sewer, storm drains), under overhead utility lines, private yards of single-family lots (including front yards), and roadway medians.

Native trees <6 inches DBH to be retained on-site shall have at least a 20-foot radius suitable root zone. The suitable root zone shall not have impermeable surfaces, turf/lawn, dense plantings, soil compaction, drainage conditions that create ponding (in the case of oak trees), utility easements, or other overstory tree(s) within 20 feet of the tree to be preserved. Trees to be retained shall be determined to be healthy and structurally sound for future growth, by an International Society of Arboriculture Certified Arborist subject to Environmental Coordinator approval.

If tree replacement plantings are demonstrated to the satisfaction of the Environmental Coordinator to be infeasible for any or all trees removed, then compensation shall be through payment into the County Tree Preservation Fund. Payment shall be made at a rate of $325.00 per DBH inch removed but not otherwise compensated, or at the prevailing rate at the time payment into the fund is made.

New Mitigation Measure BR-4.2: Proposed Project Tree Canopy Protection and/or Compensation Mitigation Measure

Removal of nonnative tree canopy shall be mitigated by creation of new tree canopy equivalent to the acreage of nonnative tree canopy removed. New tree canopy acreage shall be calculated using the Sacramento County Department of Transportation 15-year shade cover values for tree species. Preference is given to on-site mitigation, but if this is infeasible, then funding shall be contributed to the Sacramento Tree Foundation's Greenprint program in an amount proportional to the tree canopy lost (as determined by the 15-year shade cover calculations for the tree species to be planted through the funding, with the cost to be determined by the Sacramento Tree Foundation).

IMPACT BR-5: CONFLICT WITH ANY LOCAL POLICIES OR ORDINANCES PROTECTING BIOLOGICAL RESOURCES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would conflict with the Sacramento County Tree Preservation and Protection Ordinance and various policies of the Sacramento County General Plan that protect biological resources. However, the 2016 Final EIR determined that implementation of Mitigation Measures BR-1.1 through BR-1.12, BR-3, and BR-4 would reduce impacts to a less-than-significant level by reducing or avoiding impacts on special-status species, federally protected wetlands, and native or landmark trees (Impact Evaluation BR-5).

At the time of preparation of this SEIR, the requirements of Mitigation Measures BR-1.1 through BR-1.12, BR-3, and BR-4 have been met by the project applicant.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres, where surface mining activities associated with the proposed project could result in potentially significant impacts on biological resources for which the Sacramento County 2030 General Plan policies and the Sacramento County Tree Preservation Ordinance provide protection (i.e., special-status species, federally protected wetlands, native or landmark trees).

As discussed in Impacts BR-1, BR-3, and BR-4 above, implementation of the proposed project would result in less than significant impacts on special-status species, state and federally protected wetlands, and native or landmark trees with mitigation incorporated. Therefore, implementation of the proposed project would not conflict with local policies and ordinances protecting biological resources with implementation of Adopted 2016 Final EIR Mitigation Measure BR-1.7, New Mitigation Measures BR-4.1 and 4.2, and New Mitigation Measures BR-1.13 through BR-1.17 and BR-3.2. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts related to conflict with local policies and ordinances protecting biological resources would not be substantial and the overall impact would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measure BR-1.7 and New Mitigation Measures 1.13 through 1.17 (listed under Impact BR-1), New Mitigation Measure BR-3.2 (listed under Impact BR-3); and New Mitigation Measures BR-4.1 and BR-4.2 (listed under Impact BR-4).

IMPACT BR-6: HAVE A SUBSTANTIAL ADVERSE EFFECT ON THE MOVEMENT OF ANY NATIVE RESIDENT OF MIGRATORY FISH OR WILDLIFE SPECIES OR WITH ESTABLISHED NATIVE RESIDENT OR MIGRATORY WILDLIFE CORRIDORS, OR IMPEDE THE USE OF NATIVE WILDLIFE NURSERY SITES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would not affect the movement of fish or wildlife species as the approved project would not construct any structure or alter any waterways that would impede the movement of wildlife or migratory fish. In addition, the 2016 Final EIR stated that due to the size of the project site and that the approved project would be carried out in phases, movement of fish or wildlife species would not be affected by implementation of the approved project. Therefore, the 2016 Final EIR determined that no impact to wildlife movement corridors would occur with implementation of the approved project and this issue was not analyzed in detail within the 2016 Final EIR (Significance Criteria BR-6).

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres. Similar to the approved project, the proposed project would also be carried out in a phased manner, where surface mining and localized reclamation activities would be completed in the Aspen VIII Expansion Area before being completed in the Aspen IX Expansion Area and followed by final reclamation of the project site. Because the project site is similar in character as the project site analyzed in the 2016 Final EIR and is not expected to provide higher quality migratory corridor habitat for wildlife, there would be no new significant effects or more severe impacts related to wildlife movement corridors than identified in the 2016 Final EIR.

Two special-status bat species (i.e., pallid bat and western red bat) have potential to be adversely affected by implementation of the proposed project due to tree removal which could result in loss of bat roosts and thus, removal of wildlife nurseries. However, the proposed project would implement New Mitigation Measure BR-1.13, which requires the project applicant to participate in and comply with the SSHCP, including the applicable AMMs to protect western red bat roosts, and New Mitigation Measure BR-1.17, which would extend the implementation of these AMMs to pallid bat roosts, as pallid bats are not covered species under the SSHCP. Therefore, with implementation of New Mitigation Measures BR-1.13 and BR-1.17, the proposed project would result in less-than-significant impacts on wildlife nursery sites.

Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts related to wildlife movement corridors and wildlife nursery sites would not be substantial and the overall impact would be **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement New Mitigation Measures BR-1.13 and BR-1.17.

IMPACT BR-7: CONFLICT WITH THE SOUTH SACRAMENTO HABITAT CONSERVATION PLAN

2016 FINAL EIR DETERMINATION

Because the 2016 Final EIR was certified prior to the adoption of the SSHCP, the 2016 Final EIR did not evaluate the approved project's potential to result in impacts related to conflicting with the SSHCP. However, the 2016 Final EIR did evaluate the approved project's potential to conflict with adopted habitat conservation plan and determined that the project site was not located within any applicable adopted habitat conservation plans. Therefore, the 2016 Final EIR determined that implementation of the approved project would result in no impact related to conflicts with an adopted habitat conservation plan and this issue was not analyzed in detail within the 2016 Final EIR (Significance Criteria BR-7).

PROPOSED PROJECT IMPACT EVALUATION

As discussed under "Regulatory Setting", the SSHCP was adopted in 2018 and is the applicable habitat conservation plan for the project site. As discussed throughout this section, implementation of the proposed project prior to the incorporation of mitigation measures would conflict with the SSHCP, which would result in a more severe impact than identified in the 2016 Final EIR. However, impacts related to conflict with the SSHCP would be reduced to a less-than-significant level with implementation of New Mitigation Measure BR-1.13, which requires the project applicant to participate and comply with the SSHCP, including submitting an application, payment of all applicable mitigation fees, and complying with all applicable AMMs. Therefore, impacts would be **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement New Mitigation Measure BR-1.13.

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9 CULTURAL RESOURCES

INTRODUCTION

Under CEQA, lead agencies must consider the effects of their projects on cultural resources. Cultural resources may include historic buildings and structures, historic districts, historic sites, culturally sacred sites, precontact and historic-era archaeological sites, and other precontact and historic objects and materials.

This chapter describes the potential impacts on cultural resources that could occur as a result of implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the existing environmental setting based on the archival research that was conducted within the project site and area; discusses the applicable federal, state, and local regulations and policies related to cultural resources; and assesses the potential for the proposed project to result in impacts related to cultural resources. The analysis within this chapter is based on the *Cultural Resources Technical Report for the Aspen VII and IX Use Permit Amendment Project* prepared by Ascent in May 2024, presented in Appendix E.

No comments pertaining to cultural resources were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, “Project Description,” the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

REGIONAL PRECONTACT HISTORY

A tripartite classification system for cultural change in the Sacramento River Valley has been standard since the 1930s. More recently, this system has been adjusted based on modern radiocarbon calibration curves for the Georgian/Julian calendar (the terms B.C.E. for Before Common Era and C.E. for Common Era will be used). Based on this new system, the following classification system has been defined for the Precontact Period: Paleo-Indian (11,500–8550 cal [calibrated] B.C.E.), Lower Archaic (8550–5550

cal B.C.E.), Middle Archaic/Windmiller Pattern (5550–550 cal B.C.E.), Upper Archaic/Berkeley Pattern (550 cal B.C.E.– 1100 cal. C.E.), and Emergent/Augustine Pattern (1100 cal C.E.–Historic era Contact) (Ascent 2024).

Paleo-Indian and Lower Archaic Periods (11,500–5550 Cal B.C.E.)

There is little evidence of the Paleo-Indian and Lower Archaic periods in the Central Valley. Recent geoarchaeological studies have found that large segments of the Late Pleistocene landscape throughout the California lowlands have been buried or removed by periodic episodes of deposition and erosion. Periods of climate change and associated alluvial deposition occurred at the end of the Pleistocene (approximately 9050 cal B.C.E.) and at the beginning of the early Middle Holocene (approximately 5550 cal B.C.E.). Earlier studies had also estimated that Paleo-Indian and Lower Archaic sites along the lower stretch of the Sacramento River and San Joaquin River drainage systems had been buried by Holocene alluvium up to 33 feet (10 meters) thick that was deposited during the last 5,000 to 6,000 years. The formation of the Sacramento–San Joaquin Delta began during the early Middle Holocene. After approximately 1,000 cal B.C.E. during the Late Holocene, there were renewed episodes of alluvial fan and floodplain deposition.

The archaeological evidence that is available for the Paleo-Indian Period is primarily defined by basally thinned, fluted projectile points. These points are morphologically similar to well-dated Clovis points found elsewhere in North America. In the Central Valley, fluted points have been recovered from remnant features of the Pleistocene landscape at only three archaeological localities, the Woolfsen Mound in Merced County, Tracey Lake in San Joaquin County, and Tulare Lake basin in Kings County (Ascent 2024).

Middle Archaic Period/Windmiller Pattern (5550–550 Cal B.C.E.)

Archaeological sites dating to the first 3,000 years of the Middle Archaic are relatively scarce in the Sacramento River Valley, mainly due to natural geomorphic processes. On the valley floor, sites are more common after 2550 cal. B.C.E. The archaeological record in the valley and foothills indicates the subsistence system during this period included a wide range of natural resources (e.g., plants, small and large mammals, fish, and waterfowl) indicating people followed a seasonal foraging strategy. Populations may have occupied lower elevations during the winter and moved to higher elevations in the summer.

Excavations at Windmiller Pattern sites have yielded abundant remains of terrestrial fauna (deer, tule elk, pronghorn, and rabbits) and fish (sturgeon, salmon, and smaller fishes). Projectile points with triangular blades and contracting stems are common at Windmiller Pattern sites. A variety of fishing implements such as angling hooks, composite bone hooks, spears, and baked clay artifacts, which may have been used as net or line sinkers, are also relatively common. The points are classified within the Sierra Contracting Stem and Houx Contracting Stem series. The presence of milling implements (grinding slabs, handstones, and mortar fragments) indicate that acorns or seeds were an important part of the Middle Archaic diet (Ascent 2024).

Upper Archaic Period/Berkeley Pattern (550 Cal B.C.E. – 1100 cal. C.E.)

The Upper Archaic is characterized by a shift over a 1,000-year period to the more specialized, adaptive Berkeley Pattern. Excavated archaeological sites dating to the Upper Archaic indicate an increase in mortar and pestle groundstone technology. This change is supported by dated palaeobotanical remains and a decrease in slab milling stones and handstones. Archaeologists generally agree mortars and pestles are better suited to crushing and grinding acorns, while milling slabs and handstones may have been used primarily for grinding wild grass grains and seeds. New types of shell beads, charmstones, bone tools, and ceremonial blades are additional evidence of the more specialized technology present during this period.

The artifact assemblage in Berkeley Pattern sites demonstrates that populations continued to exploit a variety of plant and animal resources from different environmental zones, including grassland, riparian, and freshwater marsh settings. Deposits of this temporal period have a characteristic well-developed brown midden containing hearth features, fire-fractured rock, storage pits, and house floors. These features indicate that Upper Archaic sites were intensively occupied by large populations (Ascent 2024).

Emergent Period/Augustine Pattern (1100 cal. C.E. – Historic era Contact)

The archaeological record for the Emergent or Late Precontact Period shows an increase in the number of archaeological sites associated with the Augustine Pattern in the Sacramento River Valley, as well as an increase in the number and diversity of artifacts. The Emergent Period was shaped by a number of cultural innovations, such as the bow and arrow and intricate fishing technology, as well as an elaborate social and ceremonial organization. Cultural patterns typical of the Emergent Period appear to be reflected in the cultural traditions known from historic period Native American groups.

During the Emergent Period, villages were located along major waterways with smaller settlements found in outlying areas. Settlements on natural levees and high spots in floodplains were common. House floors or other structural remains have been preserved at some sites dating to this period. The increase in sedentism and population growth led to the development of social stratification, with an elaborate social and ceremonial organization. Examples of items associated with rituals and ceremonials include flanged tubular pipes, incised patterned bird bone tubes and whistles, and baked clay effigies representing animals and humans. Mortuary practices changed to include flexed burials, cremations with grave goods and offerings, and pre-interment burning in a burial pit. Currency, in the form of clamshell disk beads, also developed during the later part of the period together with extensive exchange networks that included the Pacific Northwest and southern California (Ascent 2024).

Post-Contact History

Regional History

Spanish exploration of the Central Valley dates to the late 1700s, but exploration of the northern section of the Central Valley and contact with its Native American population did not begin until the early 1800s. The second quarter of the 19th century encompasses the Mexican Period (ca. 1821–1848) in California. This period is an outgrowth of the Mexican Revolution, and its accompanying social and political views affected the mission system across California. In 1833, the missions were secularized, and their lands divided among the *Californios* as land grants called *ranchos*. These ranchos facilitated the growth of a semi-aristocratic group that controlled the larger ranchos. The work on these large tracts of land was accomplished by the forced labor of local Native Americans (Ascent 2024).

Simultaneously with the exploration of the Central Valley, trails were being blazed across Sierra Nevada plains and mountains, facilitating the westward migration of Euro-Americans. Early immigrants to California are typified by groups such as the 1841 Bartleson-Bidwell party and the 1844 Stevens-Murphy party. The commencement of the Mexican-American War in 1846 also affected the exploration and development of California, including the identification of new trails across the Sierra Nevada. The exploits of the Mormon Battalion and the establishment of the Mormon Emigrant Trail across the Sierra Nevada highlight these activities.

The discovery of gold at Sutter's Mill in Coloma in 1848 was the catalyst that caused a dramatic alteration of both Native American and Euro-American cultural patterns in California. After news of the discovery of gold spread, a flood of Euro-Americans entered the region and gravitated to the area of the "Mother Lode." Initially, the Euro-American population grew slowly, but soon it exploded as the presence of large deposits of gold was confirmed in the Sacramento area. The Euro-American population of California quickly swelled, from an estimated 4,000 in 1848 to 500,000 in 1850. Sacramento, established in 1848 by John A. Sutter, also grew in population and was incorporated as a city in 1850 (Ascent 2024).

Local History

Exploration into the Sacramento Valley began in the early 1800s via colonization and the establishment of missions. One of the early explorers, a Spaniard name Gabriel Moraga, is responsible for naming the valley region "Sacramento," which means "the Holy Sacrament." Latin influence in the region continued in the early 1800s as Mexico gained independence from Spain and began sending explorers to Sacramento in 1822. While the area was technically under Mexican rule by 1824, the area was still inhabited by numerous Native Americans. Sacramento history goes back to 1839 when John Sutter arrived on the shore near the confluence of the American and Sacramento rivers. The history of Sacramento has been shaped by its location near the Sacramento and American rivers. These rivers provided transportation, irrigation, and food supply for early settlers.

The northern portion of the project site (existing Aspen VIII and proposed Aspen VIII Expansion Area) lies within the Rancho Rio de los Americanos, a grant of over 35,500 acres on the south side of the American River (Ascent 2024). The land grant was given to William Leidesdorff by the Mexican government in 1848. Over the years, in the 1860s and 1870s, almost all the land in the project site and surrounding area was taken up for agricultural purposes (Ascent 2024).

Regulatory Setting

Federal

National Historic Preservation Act

Cultural resources are considered during federal undertakings chiefly under Section 106 of the National Historic Preservation Act (NHPA) of 1966 (as amended) through one of its implementing regulations, 36 Code of Federal Regulations (CFR) 800 (Protection of Historic Properties). Section 106 of NHPA (16 USC 470f) requires federal agencies to take into account the effects of their undertakings on any district, site, building, structure or object that is included in or eligible for inclusion in the National Register of Historic Properties (NRHP) and to afford the Advisory Council on Historic Preservation a reasonable opportunity to comment on such undertakings (36 CFR 800.1). Under Section 106, the significance of any adversely affected cultural resource is assessed and mitigation measures are proposed to reduce any impacts to an acceptable level. Significant cultural resources are those resources that are listed, or are eligible for listing, on the NRHP per the criteria listed at 36 CFR 60.4 below:

> In order for a cultural resource to be considered a “historic property” under NRHP criteria (i.e., eligible for inclusion on the NRHP), it must be demonstrated that the resource possesses *integrity* of location, design, setting, materials, workmanship, feeling and association, and must meet at least one of the following four criteria delineated by Section 106, as listed in 36 CFR 60.4:
>
> (a) That are associated with events that have made a significant contribution to the broad patterns of our history; or
>
> (b) That are associated with the lives of persons significant in our past; or
>
> (c) That embody the distinctive characteristics of a type, period or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
>
> (d) That have yielded, or may be likely to yield, information important in prehistory or history.

STATE

CALIFORNIA REGISTER OF HISTORICAL RESOURCES

The criteria for listing resources on the California Register of Historical Resources (CRHR) were expressly developed to be in accordance with previously established criteria developed for listing on the NRHP, enumerated above, and require similar protection to what NHPA Section 106 mandates for historic properties. According to Public Resources Code (PRC) Section 5024.1(c)(1-4), a resource is considered historically significant if it meets at least one of the following criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

2. Is associated with the lives of persons important in our past;

3. Embodies the distinctive characteristics of a type, period, region or method of installation, or represents the work of an important creative individual, or possesses high artistic values; or

4. Has yielded, or may be likely to yield, information important in prehistory or history.

Similar to the NRHP, a historical resource must meet one of the above criteria and retain integrity to be listed in the CRHR. The CRHR uses the same seven aspects of integrity used by the NRHP: location, design, setting, materials, workmanship, feeling, and associations.

CALIFORNIA ENVIRONMENTAL QUALITY ACT

CEQA requires public agencies to consider the effects of their actions on “historical resources,” and “unique archaeological resources.” Pursuant to PRC Section 21084.1, a “project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.” Section 21083.2 requires agencies to determine whether projects would have effects on unique archaeological resources.

HISTORICAL RESOURCES

“Historical resource” is a term with a defined statutory meaning (CEQA Section 21084.1; State CEQA Guidelines Sections 15064.5[a] and [b]). Under State CEQA Guidelines Section 15064.5(a), historical resources include the following:

1) A resource listed in or determined to be eligible by the State Historical Resources Commission for listing in, the CRHR (PRC Section 5024.1).

2) A resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g), will be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant

unless the preponderance of evidence demonstrates that it is not historically or culturally significant.

3) Any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be a historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource will be considered by the lead agency to be historically significant if the resource meets the criteria for listing in the CRHR (PRC Section 5024.1).

4) The fact that a resource is not listed in or determined to be eligible for listing in the CRHR, not included in a local register of historical resources (pursuant to PRC Section 5020.1[k]), or identified in a historical resources survey (meeting the criteria in PRC Section 5024.1[g]) does not preclude a lead agency from determining that the resource may be a historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

UNIQUE ARCHAEOLOGICAL RESOURCES

CEQA also requires lead agencies to consider whether projects will affect unique archaeological resources. CEQA Section 21083.2(g) states that "unique archaeological resource" means an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets one or more of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.

3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Treatment options under CEQA Section 21083.2(b) to mitigate impacts to "unique archaeological resources" prioritize activities that preserve such resources in place in an undisturbed state.

CEQA SECTION 21083.2

Treatment options under CEQA Section 21083.2(b) to mitigate impacts to archaeological resources include activities that preserve such resources in place in an undisturbed state. CEQA Section 21083.2 states:

(a) As part of the determination made pursuant to Section 21080.1, the lead agency shall determine whether the project may have a significant effect on archaeological resources. If the lead agency determines that the project may have a significant effect on unique archaeological resources, the environmental impact report shall address

the issue of those resources. An environmental impact report, if otherwise necessary, shall not address the issue of nonunique archaeological resources. A negative declaration shall be issued with respect to a project if, but for the issue of nonunique archaeological resources, the negative declaration would be otherwise issued.

(b) If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following:

(1) Planning construction to avoid archaeological sites.

(2) Deeding archaeological sites into permanent conservation easements.

(3) Capping or covering archaeological sites with a layer of soil before building on the sites.

(4) Planning parks, greenspace, or other open space to incorporate archaeological sites.

(c) To the extent that unique archaeological resources are not preserved in place or not left in an undisturbed state, mitigation measures shall be required as provided in this subdivision.

(d) Excavation as mitigation shall be restricted to those parts of the unique archaeological resource that would be damaged or destroyed by the project.

(e) In no event shall the amount paid by a project applicant for mitigation measures required pursuant to subdivision (c) exceed the following amounts:

(1) An amount equal to one-half of 1 percent of the projected cost of the project for mitigation measures undertaken within the site boundaries of a commercial or industrial project.

(2) An amount equal to three-fourths of 1 percent of the projected cost of the project for mitigation measures undertaken within the site boundaries of a housing project consisting of a single unit.

(f) Unless special or unusual circumstances warrant an exception, the field excavation phase of an approved mitigation plan shall be completed within 90 days after final approval necessary to implement the physical development of the project or, if a phased project, in connection with the phased portion to which the specific mitigation measures are applicable. However, the project applicant may extend that period if he or she so elects. Nothing in this section shall nullify protections for Indian cemeteries under any other provision of law.

PUBLIC RESOURCES CODE, SECTION 5097

PRC Section 5097 specifies the procedures to be followed if human remains are unexpectedly discovered on nonfederal land. The disposition of Native American burials falls within the jurisdiction of the Native American Heritage Commission (NAHC). Section 5097.5 of the code states:

> No person shall knowingly and willfully excavate upon, or remove, destroy, injure, or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands. Violation of this section is a misdemeanor

CALIFORNIA HEALTH AND SAFETY CODE SECTION 7050.5

California law protects Native American burials, skeletal remains and associated grave goods regardless of their antiquity and provides for the sensitive treatment and disposition of those remains (Section 7050.5 of the California Health and Safety Code). When human remains are discovered, the protocol to be followed is specified in the California Health and Safety Code, which states:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

CEQA SECTION 15064.5(E)

State CEQA Guidelines Section 15064.5(e) requires that excavation activities be stopped whenever human remains are uncovered and that the County coroner be called in to assess the remains. If the County coroner determines that the remains are those of Native Americans, the NAHC must be contacted within 24 hours. At that time, the lead agency must consult with the appropriate Native Americans, if any, as timely identified by the NAHC. Section 15064.5 directs the lead agency (or applicant), under certain circumstances, to develop an agreement with the Native Americans for the treatment and disposition of the remains.

In addition to the mitigation provisions pertaining to accidental discovery of human remains, the State CEQA Guidelines also require that a lead agency make provisions

for the accidental discovery of historical or archaeological resources, generally. Pursuant to Section 15064.5(f), these provisions should include "an immediate evaluation of the find by a qualified archaeologist. If the find is determined to be an historical or unique archaeological resource, contingency funding and a time allotment sufficient to allow for implementation of avoidance measures or appropriate mitigation should be available. Work could continue on other parts of the building site while historical or unique archaeological resource mitigation takes place."

LOCAL

SACRAMENTO COUNTY 2030 GENERAL PLAN

The following 2030 General Plan policies are applicable to the proposed project (Sacramento County 2017):

- **Policy CO-150**. Utilize local, state and national resources, such as the NCIC [North Central Information Center], to assist in determining the need for a cultural resources survey during project review.
- **Policy CO-154.** Protection of significant prehistoric, ethnohistoric and historic sites within open space easements to ensure that these resources are preserved in situ for perpetuity.
- **Policy CO-155.** Native American burial sites encountered during preapproved survey or during construction shall, whenever possible, remain in situ. Excavation and reburial shall occur when in situ preservation is not possible or when the archeological significance of the site merits excavation and recording procedure. On-site reinterment shall have priority. The project developer shall provide the burden of proof that offsite reinterment is the only feasible alternative. Reinterment shall be the responsibility of local tribal representatives.
- **Policy CO-157.** Monitor projects during construction to ensure crews follow proper reporting, safeguards, and procedures.
- **Policy CO-158.** As a condition of approval for discretionary permits, a procedure shall be included to cover the potential discovery of archaeological resources during development or construction.

COMMUNITY PLANS

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project because the project site is within the plan area.

VINEYARD COMMUNITY PLAN

The Vineyard Community Plan does not contain specific policies related to cultural resources.

Significance Criteria and Methodology

Significance Criteria

Based on Appendix G of the State CEQA Guidelines, impacts on cultural resources would be significant if implementation of the proposed project would:

- cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5 of the State CEQA Guidelines;
- cause a substantial change in the significance of an archaeological resource pursuant to Section 15064.5 of the State CEQA Guidelines; or
- disturb and human remains, including those interred outside of dedicated cemeteries.

Issues Not Discussed Further

All the issues identified in the significance criteria are addressed in the following analysis.

Methodology

For the purposes of the impact discussion, "historical resource" is used to describe built environment historic-period resources. Archaeological resources (both precontact and historic-period), which may qualify as "historical resources" pursuant to CEQA, are analyzed separately from built-environment historical resources.

The following impact analysis for archaeological and historical resources is based on the findings and recommendations of the *Cultural Resources Technical Report for the Aspen VII and IX Use Permit Amendment Project* prepared by Ascent in 2024 (Appendix E). The analysis is also informed by the provisions and requirements of federal, State, and local laws and regulations that apply to cultural resources, which are described above.

Disclosure of Cultural Resources Information

Public disclosure of site-specific cultural resources information is expressly exempt from the California Public Records Act, Government Code Sections 6250-6270. Furthermore, information obtained during Native American consultation or through consultation with the local and state agencies, including NCIC, should remain confidential and is exempt from public disclosure under Senate Bill 922. Additionally, Sacramento County staff has signed an "Agreement to Confidentiality" with the NCIC that states that site specific information will not be distributed or released to the public or unauthorized individuals. An authorized individual is a professional archaeologist or historian that qualifies under the Secretary of the Interior's standards to view confidential cultural resources materials.

Information Center Record Search

In accordance with Sacramento County General Plan Policy CO-150 and standard professional practice, an extensive search of data maintained by the NCIC of the California Historical Resources Information System at California State University,

Sacramento, including state and federal listings of significant cultural resources and associated data bases was conducted on February 2, 2024. In addition to official maps and records, the following sources of information at the NCIC were consulted as part of the record search.

- NRHP – Listed Properties,
- CRHR,
- California Inventory of Historical Resources,
- California State Historical Landmarks,
- California Points of Historical Interest, and
- Office of Historic Preservation Historic 2012 Property Directory and Determinations of Eligibility.

Review of the NCIC records search results for the project site identified two previously recorded resources within the project site (P-34-000690 and P-34-001867). P-34-000690 is a farmstead that was recommended not eligible for the NRHP. Concurrence on the evaluation was obtained by the State Historic Preservation Officer (SHPO) on April 9, 1997 (No. COE970311A). P-34-001867 is comprised of foundational remains of a farmhouse that was recommended not eligible for the CRHR and NRHP. SHPO concurrence was obtained on September 28, 2015 that this resource is not eligible for the NRHP (No. COE_2015_0826_001).

Field Assessment

The project site was subject to a pedestrian survey on February 14, 2024. The survey consisted of a pedestrian inspection, with the surveyors walking 10- to 15-meter-wide intervals to ensure maximum ground. Surface visibility was generally poor across the project site; the majority of the site was vegetated with thick grasses. Areas denuded of vegetation were examined carefully. Special attention was given to bare patches of ground, exposed soils, rodent burrows, and dirt piles.

No archaeological sites (or isolates) or built environment resources were encountered as a result of this survey. P-34-000690 was no longer present at the time of this survey effort. P-34-001867 was still present during the 2024 survey effort, and it remains unchanged since it was evaluated in 2014.

IMPACTS AND ANALYSIS

IMPACT CR-1: CAUSE A SUBSTANTIAL ADVERSE CHANGE IN THE SIGNIFICANCE OF A BUILT-ENVIRONMENT HISTORICAL RESOURCE

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would not result in a substantial adverse change in the significance of a historical resource because no built environment resources eligible for the NRHP or for the CRHR were identified within the project area. Therefore, impacts were determined to be less than significant (Impact Evaluation CR-1).

PROPOSED PROJECT IMPACT EVALUATION

Because the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing surface mining and reclamation footprint by 245.64 acres and involve ground-disturbing activities similar to the approved project, the proposed project could also have the potential to cause a substantial adverse change to a built-environment historical resource. As discussed above in "Methodology," the results of the records search revealed P-34-000690 within the project site. This built environment resource is a farmstead that was determined not eligible for the NRHP. The field survey conducted on February 14, 2024, revealed that this farmstead was no longer present. No new built environment features were identified as a result of the pedestrian survey conducted for the proposed project. Therefore, no historical resources as defined by CEQA were identified within the proposed mining area or the overall project site. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required for this impact.

IMPACT CR-2: CAUSE A SUBSTANTIAL ADVERSE CHANGE TO AN ARCHAEOLOGICAL RESOURCE

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not identify any archaeological resources eligible for the NRHP or for the CRHR based on field surveys conducted in 2006 and 2014 as well as a record search in 2007. However, as a precaution for unintended discoveries, the 2016 Final EIR included Mitigation Measure CR-2 to require that all construction work is halted and the proper protocols are implemented in accordance with all applicable regulations in the event of inadvertent discovery of subsurface deposits of cultural and/or paleontological resources or human remains. Therefore, the 2016 Final EIR determined

impacts would be less than significant with implementation of Mitigation Measure CR-2 (Impact Evaluation CR-2). At the time of preparation of this SEIR, the approved project is still subject to the requirements of Mitigation Measure CR-2.

Proposed Project Impact Evaluation

Because the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining and reclamation footprint by 245.64 acres and would involve ground-disturbing activities similar to the approved project, the proposed project would also have the potential to cause a substantial adverse change to buried archaeological resources, either known or unknown.

As discussed above, the results of the NCIC records search revealed one previously documented historic era archaeological site within the project site (P-34-001867). P-34-001867 is comprised of foundational remains of a farmhouse that was determined not eligible for the CRHR or NRHP. On February 14, 2024, the pedestrian survey conducted for the proposed project relocated P-34-001867 and found the conditions of the site to be the same as previously documented, and no new archaeological sites were identified. Therefore, no unique archaeological resources as defined in CEQA Section 21083.2(g) or archaeological resources as defined in State CEQA Guidelines Section 15064.5 were identified during the survey.

However, CEQA requires that lead agencies protect both known and unknown resources. This is supported by County General Plan Policies CO-157 and CO-158. While there are no known archaeological resources on the project site, there is still the potential for buried or as yet undiscovered archaeological resources to be encountered during ground disturbing activities associated with project implementation, which could result in a substantial adverse change to an archaeological resource. Buried resources may consist of historic remains such as structural features (e.g., foundations, cellars) or buried trash deposits containing glass, ceramics and metal, or the resources may be of precontact origin containing chipped stone, shell, bone, and other remains. Impacts to archaeological resources could result if a resource is damaged accidentally during surface mining activities or removed from its original location.

Because operation of the proposed project would be similar to the approved project, the proposed project would also be subject to the requirements of Adopted 2016 Final EIR Mitigation Measure CR-2 from the 2016 Final EIR, which has been revised based on the recommendations of the *Cultural Resources Technical Report* prepared for the proposed project. In the event of inadvertent discovery of subsurface deposits of cultural resources during ground-disturbing activities, Revised 2016 Final EIR Mitigation Measure CR-2 would require all surface mining activities to be halted within 100 feet[1] of

[1] It should be noted that due to changes in industry standards and to allow for greater flexibility for the project applicant while still reducing impacts to a less-than-significant level, the radius used for discovery of subsurface deposits believed to be cultural, paleontological, or human in origin was reduced to 100 feet from 200 feet in Revised 2016 Final EIR Mitigation Measure CR-2.

the find and the proper protocols to be implemented in accordance with all applicable regulations, which would ensure adverse effects to archaeological resources are minimized. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measures CR-2.

REVISED 2016 FINAL EIR MITIGATION MEASURE CR-2: CULTURAL RESOURCES UNANTICIPATED DISCOVERIES

If subsurface deposits believed to be cultural, paleontological, or human in origin are discovered during construction, then all work must halt within a 100-foot radius of the discovery. A qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and history archaeology, shall be retained at the project applicant's expense to evaluate the significance of the find. If it is determined due to the types of deposits discovered that a Native America monitor is required, the Guidelines for Monitors/Consultants of Native American Cultural, Religious, and Burial Sites as established by the Native American Heritage Commission shall be followed, and the monitor shall be retained at the project applicant's expense.

Work cannot continue within the 100-foot radius of the discovery site until the archaeologist conducts sufficient research and data collection to make a determination that the resource is either 1) not cultural in origin; or 2) not potentially eligible for listing on the National Register of Historic Places of California Register of Historical Resources.

If a potentially eligible resource is encountered, then the archaeologist and project proponent shall coordinate with Planning and Environmental Review and arrange for either 1) total avoidance of the resource, if possible; or 2) test excavations or total data recovery as mitigation. The determination shall be formally documented in writing and submitted to Planning and Environmental Review as verification that the provisions of CEQA for managing unanticipated discoveries have been met.

In addition, pursuant to Section 5097.98 of the State Public Resources Code and Section 7050.5 of the State Health and Safety Code, in the event of the discovery of human remains during any project-related ground-disturbing activity, all work shall cease within 100 feet of the discovery and the County Coroner shall be immediately notified. If the remains are determined to be Native American by the County Coroner, the NAHC shall be contacted to determine the Most Likely Descendant (MLD). The remains shall be treated with appropriate dignity pursuant to the procedures for the treatment of Native American human remains are contained in California Health and Safety Code Section 7050.5 and Section 7052 and California Public Resources Code Section 5097.98 and CEQA Guidelines Section 15064.5(e).

IMPACT CR-3: DISTURB HUMAN REMAINS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not identify any evidence of graves within the project site. However, as a precaution for unintended discoveries of human remains, the 2016 Final EIR included Mitigation Measure CR-2 to require that all construction work is halted and the proper protocols are implemented in accordance with all applicable regulations in the event of inadvertent discovery of subsurface deposits of cultural and/or paleontological resources or human remains. Therefore, the 2016 Final EIR determined that impacts would be less than significant with implementation of Mitigation Measure CR-2 (Impact Evaluation CR-3).

PROPOSED PROJECT IMPACT EVALUATION

Because the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining and reclamation footprint by 245.64 acres and would involve ground-disturbing activities similar to the approved project, the proposed project would also have the potential to disturb buried human remains.

Based on documentary research, no evidence suggests that any precontact or historic era marked or un-marked human interments are present within the proposed mining area or the overall project site. However, the location of grave sites and Native American remains can occur outside of identified cemeteries or burial sites. Therefore, there is a possibility that unmarked, previously unknown Native American or other graves could be present within the project area and could be uncovered by surface mining activities associated with the proposed project.

Because operation of the proposed project would be similar to the approved project, the proposed project would also be subject to the requirements of Adopted 2016 Final EIR Mitigation Measure CR-2, which has been revised for the proposed project as discussed above under Impact CR-2. Implementation of Revised 2016 Final EIR Mitigation Measure CR-2 requires all ground-disturbing work to be halted within 100 feet of the discovery of human remains and the County Coroner to be immediately notified pursuant to PRC Section 5097.98 and Section 7050.5 of the California Health and Safety Code. If the human remains are of Native American origin, the coroner must notify the NAHC within 24 hours of such identification, and they will designate a Most Likely Descendant (MLD). Together the landowner and the MLD would determine the ultimate treatment and disposition of the remains in accordance with PRC Section 5097.94. In addition, Sacramento County Policy CO-155 requires that if burials are discovered, they remain in situ whenever possible. Implementation of Revised 2016 Final EIR Mitigation Measure CR-2 would minimize impacts related to human remains associated with implementation of the proposed project. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant with mitigation**.

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measures CR-2.

10 ENERGY

INTRODUCTION

This chapter evaluates the potential impacts related to energy resulting from the implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the existing energy types, sources, and conditions for energy usage and consumption within Sacramento County; discusses the applicable federal, state, and local regulations and policies related to energy; and assesses the potential effects that implementation of the proposed project may have on energy. This section is based on the *Air Quality, Health Risk, and Greenhouse Gas Assessment* prepared by Ascent in January 2025, presented in Appendix B1, and the Energy Calculations Worksheets prepared for the proposed project by Ascent in March 2025, presented in Appendix B2.

No comments regarding energy were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, “Project Description”, the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3). The project site is currently undeveloped, grassland areas with no active onsite uses.

ENERGY FACILITIES AND SERVICES

Electric services within Sacramento County are provided by the Sacramento Municipal Utility District (SMUD). The Pacific Gas and Electric Company (PG&E) supplies natural gas services to the project area; however, the approved project does not use natural gas as part of its operations. While the Aspen VIII and IX Expansion Areas are currently undeveloped, the existing Aspen VIII and IX mining areas are served by SMUD via the existing electrical grid. Specifically, the existing conveyor belt system, office/employee trailers, and security trailers under the approved project are powered by electricity supplied by SMUD’s electrical infrastructure.

ENERGY TYPES AND SOURCES

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and nuclear generation resources. The transportation sector accounts for the greatest amount of California's total energy consumption at nearly 40

percent, while the industrial sector accounts for 25 percent, the residential sector accounts for 20 percent, and the commercial sector for less than 20 percent (EIA 2024). Within the transportation section, on-road vehicles account for approximately 90 percent of the petroleum consumed in California. In 2021 (the most recent data available), the California Energy Commission (CEC) reported retail sales of 457 million and 38 million gallons of gasoline and diesel, respectively, within Sacramento County (CEC 2024a).

In 2023, renewable resources, including hydroelectric power and small-scale solar power, supplied 54 percent of California's in-state electricity generation. Natural gas fueled another 39 percent, and nuclear power provided almost all the rest (EIA 2024).

SMUD is the sixth largest publicly owned utility in the United States, in terms of the number of customers served. SMUD obtains electricity from a variety of sources, including hydro-generation, natural gas-fired generators, cogeneration plants, advanced and renewable technologies (such as wind, solar, biomass, and landfill gas power), and power purchased on the wholesale market. In 2023, SMUD provided its customers enrolled in its base plan with 45 percent of their energy from eligible renewable sources (i.e., biomass combustion, geothermal, small-scale hydroelectric, solar, and wind), 33 percent from large-scale hydroelectric, and 22 percent from natural gas (CEC 2024b). The contribution of in- and out-of-state power plants depends on the precipitation that occurred in the previous year, the corresponding amount of available hydroelectric power, and other factors.

Alternative Fuels

A variety of alternative fuels are used to reduce demand for petroleum-based fuel. The use of these fuels is encouraged through various statewide regulations and plans (e.g., California’s Low Carbon Fuel Standard, for which the most recent amendments became effective on July 1, 2025, and the 2022 Scoping Plan for Achieving Carbon Neutrality [Scoping Plan]). Conventional gasoline and diesel may be replaced (depending on the capability of the vehicle) with a variety of transportation fuels (e.g., biodiesel, electricity, ethanol, hydrogen, and renewable diesel).

California has a growing number of alternative fuel vehicles through the joint efforts of the California Energy Commission (CEC), California Air Resources Board (CARB), local air districts, federal government, transit agencies, utilities, and other public and private entities. As of April 2025, the Sacramento area contained approximately 2,550 publicly available electric vehicle and hydrogen fueling stations (AFDC 2025).

Energy Use and Climate Change

Scientists and climatologists have produced evidence that the burning of fossil fuels by vehicles, power plants, industrial facilities, residences, and commercial facilities has led to an increase of the earth’s temperature. For an evaluation of the proposed project’s potential to result in impacts related to greenhouse gas (GHG) emissions and climate change, please refer to Chapter 12, “Greenhouse Gas Emissions,” of this SEIR.

Regulatory Setting

Federal

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 is designed to improve vehicle fuel economy and help reduce US dependence on oil. It represents a major step forward in expanding the production of renewable fuels, reducing dependence on oil, and confronting global climate change. The Energy Independence and Security Act of 2007 aims to increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS). The RFS requires fuel producers to utilize an increasing proportion of biofuel. On June 21, 2023, the US Environmental Protection Agency (EPA) announced a final rule to establish biofuel volume requirements and associated percentage standards for cellulosic biofuel, biomass-based diesel, advanced biofuel, and total renewable fuel for 2023–2025. This final rule includes steady growth of biofuels for use in the nation's fuel supply for 2023, 2024, and 2025.

The Energy Independence and Security Act also mandated a national fuel economy standard of 35 miles per gallon by 2020—an increase of 40 percent in fuel economy standards. In 2024, the National Highway Traffic Safety Administration (NHTSA) finalized Corporate Average Fuel Economy (CAFE) standards for passenger cars and light trucks. NHTSA also finalized fuel efficiency standards for heavy-duty pickup trucks and vans.

Non-Road Compression-Ignition Engine Standards

EPA established a series of increasingly strict emission standards for new non-road diesel engines. Tier 1 standards were phased in on newly manufactured equipment from 1996 to 2000, depending on the engine horsepower category. Tier 2 standards were phased in on newly manufactured equipment from 2001 through 2006. Tier 3 standards were phased in on newly manufactured equipment from 2006 through 2008. Tier 4 standards, which require advanced emission control technology to attain them, were phased in between 2008 and 2015.

State

Integrated Energy Policy Report

Senate Bill (SB) 1389 (Chapter 568, Statutes of 2002) required CEC to conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery, distribution, demand, and prices. CEC uses these assessments and forecasts to develop energy policies that conserve resources, protect the environment, ensure energy reliability, enhance the state's economy, and protect public health and safety (PRC Section 25301[a]). This work culminated in the preparation of the first Integrated Energy Policy Report (IEPR).

CEC adopts an IEPR every 2 years and updates it every other year. The 2023 IEPR, the most recent IEPR, was adopted in February 2024. The 2023 IEPR summarizes California's priority energy issues, outlining strategies and recommendations to further the State's goal of ensuring reliable, affordable, and environmentally responsible energy sources. Energy topics covered in the report include progress toward statewide renewable energy targets and issues facing future renewable development; efforts to increase energy efficiency in existing and new buildings; progress by utilities in achieving energy efficiency targets and potential; improving coordination among the state's energy agencies; streamlining power plant licensing processes; results of preliminary forecasts of electricity, natural gas, and transportation fuel supply and demand; future energy infrastructure needs; the need for research and development efforts to statewide energy policies; and issues facing California's nuclear power plants (CEC 2024c).

California Renewables Portfolio Standard

SB 100 of 2018 sets a three-stage compliance period requiring all California utilities, including independently owned utilities, energy service providers, and community choice aggregators, to generate 52 percent of their electricity from renewables by December 31, 2027; 60 percent by December 31, 2030; and 100 percent carbon-free electricity by December 31, 2045. On September 16, 2022, SB 1020 was signed into law. This bill supersedes the goals of SB 100 by requiring that eligible renewable energy resources and zero-carbon resources supply 90 percent of all retail sales of electricity to California end-use customers by December 31, 2035, 95 percent of all retail sales of electricity to California end-use customers by December 31, 2040, 100 percent of all retail sales of electricity to California end-use customers by December 31, 2045, and 100 percent of electricity procured to serve all state agencies by December 31, 2035.

Climate Change Scoping Plan

The California Legislature enacted Assembly Bill (AB) 1279 in 2022, which establishes the policy of the State to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that by 2045, statewide anthropogenic GHG emissions are reduced by at least 85 percent below 1990 levels. CARB released the Scoping Plan in November 2022, as directed by AB 1279. The 2022 Scoping Plan traces the pathway for the State to achieve the goals set forth in AB 1279 and includes several regulations, plans, and policies directed to reduce energy consumption, improve energy efficiency, and increase renewable energy resources within the State. CARB adopted the 2022 Scoping Plan on December 16, 2022.

Local

Sacramento Municipal Utility District

In July 2020, the SMUD Board of Directors adopted a climate emergency declaration, committed to working toward an ambitious goal of delivering zero-carbon electricity by 2030. The *2030 Clean Energy Vision* is SMUD's overarching goal to reach zero-carbon emissions in its power supply by 2030. The *2030 Zero Carbon Plan*, adopted March 30,

2021, is the roadmap for SMUD to achieve the zero-carbon goal through 100 percent renewable generation by 2030, 15 years in advance of the State-mandated Renewables Portfolio Standard. SMUD released its recent *2030 Zero Carbon Plan Progress Report* in September 2024.

SMUD's *2022 Integrated Resource Plan* (2022 IRP) outlines the utility's long-term strategy to reliably and cost-effectively meet the area's energy demand, while also fulfilling various regulatory requirements, including GHG emissions reduction targets and renewable energy procurement requirements. SB 350 (De León, Chapter 547, Statutes of 2015), (Public Utilities Code [PUC] Section 9622) requires CEC to review the IRP of identified publicly owned utilities to ensure they meet various requirements specified in the law. In 2024, CEC staff reviewed the 2022 IRP, which included the *2030 Zero Carbon Plan* discussed above, for consistency with the requirements of PUC Section 9621 and ultimately concluded that the 2022 IRP (CEC 2024d):

- meets the GHG emission reduction requirements of PUC Section 9621(b)(1) and the renewable energy procurement requirement of PUC Section 9621(b)(2),
- meets planning goals related to retail rates, reliability, transmission, and distribution systems as set forth in PUC Section 9621(b)(3),
- considered the role of existing renewable generation, grid operational efficiencies, energy storage, and two distributed resources (including energy efficiency) in helping to ensure the utility's energy and reliability needs in the hours that encompass the peak hour as set forth in PUC Section 9621(c), and
- addressed the procurement requirements for energy efficiency and demand response, energy storage, transportation electrification, portfolio diversification, and resource adequacy as set forth in PUC Section 9621(d).

Sacramento County 2030 General Plan

The following 2030 General Plan policies would apply to the proposed project:

To reduce the per capita energy consumption in non-transportation sectors, it is the policy of Sacramento County to:

- **Policy EN-11.** Promote the location within the Sacramento area of those industries which are labor intensive, utilize solar energy systems, and are consistent with other policies in terms of environmental protection.
- **Policy EN-12.** Encourage industry located or locating in the Sacramento area to participate in cogeneration of power.

Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project because the project site is located within its plan area.

VINEYARD COMMUNITY PLAN

The Vineyard Community Plan does not contain policies related to energy that would apply to the proposed project.

SACRAMENTO COUNTY 2024 CLIMATE ACTION PLAN

The Sacramento County Board of Supervisors approved the Final Climate Action Plan (2024 CAP) on November 5, 2024. The 2024 CAP is a comprehensive plan for reducing GHG emissions and adapting to the effects of climate change that identifies strategies and measures to meet the state's 2030 and 2045 GHG emissions reduction targets. The 2024 CAP is a multi-objective plan that balances environmental, economic, and community interests; provides mechanisms to reduce GHG emissions associated with implementing the Sacramento County 2030 General Plan; and aligns with multiple County initiatives. The CAP sets a long-term GHG emissions reduction target for 2045 that is aligned with the AB 1279 target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The 2030 GHG emissions reduction target is also aligned with the 2022 Scoping Plan's accelerated target to reduce GHG emissions to 48 percent below 1990 levels by 2030 (Sacramento County 2024).

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

Based on Appendix G of the State CEQA Guidelines, impacts related to energy resources would be significant if implementation of the proposed project would:

- result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operation; or
- conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

ISSUES NOT DISCUSSED FURTHER

All issues identified in the significance criteria are addressed in the following analysis.

METHODOLOGY

As discussed in greater detail in Chapter 2, "Project Description," the existing Mining Use Permit and Reclamation Plan allows for surface mining and reclamation activities on the approved project site. The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres on to the Aspen VIII and IV Expansion Areas (i.e., project site) and would permit surface mining and localized reclamation activities till 2045. This results in an additional 14 years beyond the expiration of the existing Mining Use Permit, ending in 2031. Final reclamation of the Aspen VIII and IV Expansion Areas would be completed over 2 years, ending in 2047.

The proposed surface mining process includes removal of overburden, stockpiling overburden for reclamation, and surface mining within smaller subareas within the Aspen VIII and IX Expansion Areas. As surface mining progresses in one subarea, removal of topsoil would begin in the next subarea. Once surface mining is complete in one subarea, overburden would be added back into that subarea as localized reclamation activities begin. This process would continue in this manner for the life of the surface mining phase of the proposed project (i.e., 2026-2045) and is assumed to be continuous. To transport mined aggregate to the existing Perkins Plant, the proposed project would extend the existing conveyor belt system into the Aspen VIII and IX Expansion Areas, allowing for continued material transfer. Once the surface mining phase is completed, the final reclamation phase would occur across the Aspen VIII and IV Expansion Areas in accordance with the Amended Reclamation Plan from 2045 to 2047.

Consistent with the approved project, production rates of the surface mining operation would vary as a function of market demand, with an estimated maximum production rate of approximately 1 to 3 million tons per year and an estimated total of up to 13 million tons to be mined over the life of the proposed project. For the purposes of this analysis, it was estimated that approximately 1.8 million tons of material would be moved annually. Heavy-duty construction equipment used for the proposed project would typically consist of a combination of backhoes, front loaders, bulldozers, scrapers, and blade/motor-grinders, which would be brought onsite at the beginning of the proposed project and remain on-site for the duration of the proposed project. While the surface mining phase would use the greatest mix of heavy-duty construction equipment, localized and final reclamation activities would also use heavy-duty construction equipment, although to a lesser extent and for shorter durations.

Project-related energy consumption was estimated for the reasonable worst-case conditions based on the assumptions outlined in the *Air Quality, Heath Risk, and Greenhouse Gas Assessment for the Aspen Quarry VIII and IX Use Permit Amendment Project* (Ascent 2025a; Appendix B1) and are shown in the Energy Calculations Worksheets prepared for the proposed project (Ascent 2025b; Appendix B2). Levels of energy consumption related to the implementation of the proposed project were measured in gallons of diesel fuel and kilowatt hours (kWh) of electricity based on assumptions provided by the project applicant. For diesel fuel, energy consumption was estimated based on estimated annual hours of activity using conversion factors as calculated from OFFROAD 2021 (refer to Table 10-1; Appendix B1, Table 1). For electricity, energy consumption was estimated based on the assumption that the existing conveyor belt system would operate at approximately 50 percent kilowatt power, which is equivalent to around 186 kilowatts, and would be expected to run for approximately 3,000 hours per year.

Table 10-1: Construction Equipment Assumptions for the Proposed Project

Equipment Type	Pieces	Engine Model Year	Engine HP	Estimated Yearly Hours of Operation
Rubber tire loader (Cat 990)	1	2017	699	2,400
Rubber tire loader (Cat 988K)	1	2016	541	1,900
Rubber tire loader (Cat 988KXE)	1	2019	580	1,900
Crawler tractors (Cat D10T2)	1	2014	570	1,700
Crawler tractors (Cat D6)	1	2019	470	1,000
Scrapers (Cat 657E)	1	2019	630	1,000
Scrapers (Cat 657E)	1	2019	400	1,000
Scrapers (Cat 657E)	1	2018	630	1,000
Scrapers (Cat 657E)	1	2018	400	1,000
Scrapers (Cat 657E)	1	2018	630	1,000
Scrapers (Cat 657E)	1	2018	400	1,000
Scrapers (Cat 657E)	1	2019	630	1,000
Scrapers (Cat 657E)	1	2019	400	1,000
Graders (Cat 16H)	1	2018	410	600
Tampers/rammers (Cat 815F)	1	2015	232	150
Excavators (Cat 390F)	1	2016	530	350
Haul trucks (Komatsu HM350)	1	2016	394	350
Haul trucks (Komatsu HM350)	1	2017	394	350

Source: Ascent 2025a

For this analysis, an annual average energy consumption estimate was calculated based on the full duration of the proposed project, including both the surface mining and final reclamation phases (i.e., 2026-2047). In addition, the construction equipment assumptions shown in Table 10-1 represent the “worst-case” scenario, where the listed equipment is assumed to operate throughout the proposed project's life. For example, for the first piece of equipment shown in Table 10-1, a rubber-tired loader (Cat 990) is assumed to be a 2017 model year and is expected to operate 2,400 hours per year. The same loader is assumed to operate throughout the proposed project's lifespan. However, as equipment ages and better technology becomes available, that piece of equipment, as well as the whole fleet, would be upgraded over time. Because newer equipment tends to be more energy-efficient than older equipment, energy consumption per unit of activity decreases over time as equipment is replaced. This turnover in equipment is not quantified in this analysis; therefore, the energy estimates disclosed herein are considered inherently conservative.

IMPACTS AND ANALYSIS

IMPACT EN-1: RESULT IN WASTEFUL, INEFFICIENT, OR UNNECESSARY CONSUMPTION OF ENERGY

2016 FINAL EIR DETERMINATION

In 2018, the State CEQA Guidelines were comprehensively updated, and energy was added to Appendix G as a new issue to be evaluated in CEQA documents. The energy analysis requires public agencies to evaluate and mitigate a project's potential impacts related to energy consumption and conflicting with an applicable energy plan.

Because the 2016 Final EIR was certified prior to energy being included as a CEQA issue, the 2016 Final EIR did not evaluate the approved project's potential to result in impacts related to energy. As such, the 2016 Final EIR did not provide an impact determination relevant to the wasteful, inefficient, or unnecessary consumption of energy resources resulting from implementation of the approved project.

PROPOSED PROJECT IMPACT EVALUATION

While the proposed project would expand existing surface mining and reclamation activities onto the Aspen VIII and IX Expansion Areas, implementation of the proposed project would have a similar annual rate of aggregate extraction as the approved project and thus, is not expected to increase operational intensity compared to the approved project. In addition, the proposed project would not require additional employees beyond the current nine full-time employees who are onsite at any given time under the approved project. Therefore, the proposed project would not require any additional on-road heavy truck or employee commute trips compared to existing conditions under the approved project. However, implementation of the proposed project would require the extended use of off-road heavy-duty construction equipment and the existing conveyor belt system, resulting in additional diesel fuel and electricity consumption, respectively. Table 10-2 summarizes the estimated annual average energy consumption based on source type for the proposed project.

Table 10-2: Proposed Project Annual Average Energy Consumption

Source	Diesel (gallons/year)	Electricity (kWh/year)
Conveyor Belt System	—	558,000
Construction equipment	214,576	-
Proposed Project total	214,576	558,000

Notes: gallons/year = gallons per year, kWh/year = kilowatt-hours per year

Source: Modeling conducted by Ascent in 2025.

While the proposed project is estimated to consume approximately 214,576 gallons of diesel fuel and 558,000 kWh of electricity per year, only the necessary amount of diesel fuel and electricity would be consumed on a yearly basis, dependent on market conditions. By continuing to use the existing conveyor belt system, the proposed project would avoid

energy consumption related to off-site haul trucks, as all mined material would be transported onsite via that system. Also, the proposed project would not require additional employees beyond the current nine full-time employees who are onsite at any given time under the current approved surface mining activities and, as such, would not result in additional employee commute trips. Thus, the proposed project would not result in increased energy consumption (e.g., diesel fuel) associated with employee commute trips compared to existing conditions under the approved project. Once the proposed project is completed in 2047, consumption of diesel fuel and electricity would cease on the project site.

Although the proposed project would result in energy consumption over its 22 years of operation, implementation of the proposed project as an expansion of the approved project within the same geographic area would be more energy efficient than developing an entirely new surface mining operation in a different location, which could be further from existing surface mining infrastructure and processing plants. This is because less energy is needed to transport aggregate material using the existing onsite conveyor belt system to the existing Perkins Plant for distribution to nearby construction projects than having to potentially haul mined aggregate material off-site with trucks to such processing facilities based on a different location, which would more diesel fuel than the proposed project. As SMUD already provides electric service to the property and the extension of the existing conveyor belt system would only require a minimal increase in electricity compared to existing conditions under the approved project, implementation of the proposed project would not result in an extraordinary demand such that it would create an adverse physical impact on the provision of electrical services provided by SMUD. Furthermore, by expanding the footprint of the existing surface mining footprint, the proposed project would continue to use the heavy-duty construction equipment already being used on the existing Aspen VIII and IX mining areas rather than having to transport this type of equipment to a new, potentially further surface mining site location, which would require the use of additional heavy-duty trucks and thus, would consume more diesel fuel than the proposed project.

In addition, implementation of the proposed project would continue to provide aggregate material, which is foundational for making a variety of construction products that are in high demand for regional and local construction projects, including infrastructure improvement projects, such as the Fix 50 project and the Capitol Southeast Connector Expressway project. As the existing Perkins Plant is centrally located within Sacramento County, implementation of the proposed project as an expansion of the approved project would continue to supply sand and gravel material to this facility, which would allow the Perkins Plant to continue to distribute aggregate material throughout Sacramento County. Given its central location, the distribution of aggregate material from the existing Perkins Plant could help to reduce the need for lengthy transport of aggregate material to project sites, which in turn would help to reduce diesel fuel consumption associated with the overall construction industry.

For these reasons, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of energy. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Impacts would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT EN-2: CONFLICT WITH OR OBSTRUCT A STATE OR LOCAL PLAN FOR RENEWABLE ENERGY OR ENERGY EFFICIENCY

2016 FINAL EIR DETERMINATION

As discussed above under Impact EN-1, Appendix G of the State CEQA Guidelines was comprehensively updated in 2018, where energy was added as a new issue to be evaluated in CEQA documents. The energy analysis requires public agencies to evaluate and mitigate a project's potential impacts related to energy consumption and conflicting with an applicable energy plan.

Because the 2016 Final EIR was certified prior to energy being included as a CEQA issue, the 2016 Final EIR did not evaluate the approved project's potential to result in impacts related to energy. As such, the 2016 Final EIR did not provide an impact determination related to the approved project's potential to conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

PROPOSED PROJECT IMPACT EVALUATION

State or local renewable energy or energy efficiency plans applicable to the proposed project include SMUD's 2030 Zero Carbon Plan and 2022 IRP. While GHG emissions are an inherent result of the generation and consumption of fossil-fuel-related energy, plans that reduce fossil-fuel-related energy consumption, increase all-electric utilities and infrastructure, increase renewable energy generation, and improve energy efficiency are considered both energy-related plans and GHG-related plans. For this reason, the State's 2022 Scoping Plan and County's 2024 CAP could also be considered applicable state and local plans for renewable energy or energy efficiency.

While the County's 2024 CAP could be considered an applicable local plan for renewable energy or energy efficiency, CAPs are developed primarily to address GHG emissions resulting from the addition of square footage and parking and the generation of vehicle trips (i.e. physical development and transportation-related sources of GHGs). As the proposed project is an industrial use that does not include additional building square footage nor generate haul truck trips or additional employee vehicle trips, the reduction strategies in the 2024 CAP are not applicable to this project type. Thus, showing consistency with the County's 2024 CAP is not further evaluated in this analysis.

As discussed above, although the proposed project would result in energy consumption over its 22-year operation, implementing the proposed project as an expansion of the approved project would be more energy-efficient than developing an entirely new surface mining operation in a different location. As an expansion of the approved project, the proposed project would not require any additional employees beyond the current nine full-time employees who are onsite at any given time under existing conditions and, as such, would not result in additional employee vehicle commute trips. Thus, the proposed project

would not result in additional consumption of diesel fuel associated with employee commutes above existing conditions under the approved project.

As mentioned above under the Methodology, the heavy-duty construction equipment used for the proposed project would be upgraded over time, where newer equipment tends to be more energy-efficient than older equipment. This would ensure that energy consumption per unit of activity decreases over time, as the construction equipment used for the proposed project is replaced. In addition, the proposed project would extend and continue using the existing conveyor belt system, as approved under the project, to transport mined aggregate material to the existing Perkins Plant, thereby eliminating fossil fuel consumption associated with off-site haul trucks. Additionally, as SMUD already provides electric service to the property and the extension of the existing conveyor belt system would only require a minimal increase in electricity compared to existing conditions under the approved project, implementation of the proposed project would not substantially increase demand on SMUD's electrical supply or infrastructure.

Furthermore, the proposed project would continue providing in-demand aggregate material for local construction projects. This would avoid fossil fuel consumption from haul trips related to the delivery of mined materials by providing a nearby source of necessary materials for local construction projects, rather than sourcing materials from more distant locations, which would ultimately require greater fossil fuel consumption to haul materials over longer distances. Lastly, the proposed project would maintain proximity to existing infrastructure and aggregate material processing facilities, namely the existing Perkins Plant, which is centrally located to many projects throughout Sacramento County. By maintaining surface mining operations within the same overall property, the proposed project would inherently consume less fossil fuels compared to developing an entirely new mining site further from existing surface mining infrastructure. This is because more fossil fuel would be needed to transport existing mining equipment to a new, potentially further mining location, which could also require mined aggregate material to be trucked on the regional and local roadway systems to nearby processing facilities and construction sites, which would also increase fossil fuel consumption compared to the proposed project.

As demonstrated, the proposed project would continue to use the existing electric conveyor belt system to transport mined material to the existing Perkins Plant; upgrade construction equipment through the life of the project to increase energy efficiency; and would not generate any additional employee commute trips beyond existing conditions under the approved project. While the proposed project is an industrial project that is not the primary focus of SMUD's 2030 Zero Carbon Plan and 2022 IRP or the State's 2022 Scoping Plan, these features of the proposed project would aid in achieving these plans' overall energy efficiency goals. For these reasons, implementation of the proposed project would not conflict with or obstruct SMUD's 2030 Zero Carbon Plan and 2022 IRP or the State's 2022 Scoping Plan. Impacts would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

11 GEOLOGY, SOILS, AND MINERAL RESOURCES

INTRODUCTION

This chapter evaluates the potential impacts related to geology and soils, including paleontological resources, and mineral resources resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the geologic and soil setting underlying the project site and vicinity; discusses the applicable state and local regulations and policies related to geology, soils, and paleontological and mineral resources; and assesses the potential for the proposed project to result in impacts related to geologic and soil hazards, paleontological resources, and mineral resources. This section is based on the *Supplemental Geotechnical Evaluation – Teichert Aspen VIII & IX Expansion Areas* prepared by Geocon Consultants, Inc. (Geocon) in June 2024 as well as the previous three geotechnical memorandums prepared for the approved project and included as an appendix in the 2016 Final EIR (Geocon 2014, 2016a, and 2016b). All four of the geotechnical memorandums are presented in Appendix F.

No comments regarding geology and soils, including paleontological resources, or mineral resources were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, “Project Description”, the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3). The project site is currently undeveloped, grassland areas with no active onsite uses.

GEOLOGIC SETTING

REGIONAL GEOLOGY

The present-day landscape of Sacramento County has been shaped over time by the ongoing processes of erosion and deposition. Material eroded from the ancestral Sierra Nevada, formed over 100 million years ago, was deposited onto the Sacramento Valley floor. Approximately 10 to 15 million years ago tectonic uplifts altered the geomorphology of the Sierra Nevada. Glaciation, volcanism, and erosion followed the uplifting, adding layers of sediment to the valley floor. Under the present geologic

conditions, the alteration of the local geomorphology continues through stream erosion of the valley sediments and subsequent deposition in adjacent floodplains.

A "geomorphic province" is composed of an area of similar geologic origin and erosional/depositional history. Sacramento County is situated in portions of two geomorphic provinces – the Great Valley province and the Sierra Nevada province. By far the largest portion of the county lies within the Great Valley province while a small area in the eastern part of the county is within the Sierra Nevada province. The project site is located within the Great Valley province.

Project Site Geology

The project site is underlain by Pleistocene-Holocene and Pliocene-Pleistocene formations, specifically the Laguna and Riverbank Formations (DOC 2010; Geocon 2014). While the majority of the project site is underlain by the Laguna Formation, a small portion of the Aspen VIII Expansion Area is underlain by the Riverbank Formation.

The Laguna Formation ranges in age from late Miocene to early Pliocene and is composed of interbedded alluvial gravel, sand, and silt deposited from ancient river channels draining from the Sierra Nevada range, including the Feather, Yuba, American, Cosumnes, and Merced Rivers. The Laguna Formation occurs in a band several miles wide running north to south in the project area. Its central outcrop extends northward from Deer Creek to its northernmost exposure along US 50. The Redding and Red Bluff soil units are the characteristic soil types associated with the Laguna Formation, as described in greater detail under “Soils and Soil Hazards,” below.

The Riverbank Formation was deposited on a plain of stream alluvium that has been partially dissected, where the upper surface of this plain, in most places, represents the upper surface of this formation. The upper surface is characterized by a gently undulating surface. In the vicinity of the city of Elk Grove, the Riverbank Formation is about 10 miles wide from west to east. To the east, it laps onto older materials composed of the Laguna Formation. To the west, it is in turn overlain by younger alluvial materials. Soils with claypans and cemented hardpans (duripans) are common, as are vernal pools. The San Joaquin soil unit is most closely associated soil type with the Riverbank Formation, as described in greater detail under “Soils and Soil Hazards,” below.

Geologic and Seismic Hazards

Faults in the Vicinity

Active faults are largely considered those that have had movement within the last 11,000 years (within the Holocene or Historic time periods). There are no active faults located in the county; however, there is one known subsurface, inactive fault in northern Sacramento County, called the Willows Fault. The Willows Fault is located in the vicinity of Citrus Heights near Antelope Road and is presumably inactive, with its last activity occurring 1.6 million years ago or longer. In addition to the Willows Fault, there are several inactive subsurface faults in the Delta. The Midland fault extends north from Bethel Island in the Delta to east of Lake Berryessa. Studies done on this fault suggest

that activity may have occurred during the Pleistocene age and potentially even the Holocene age (10,000 to 200 years old); however, according to the California Geological Survey (CGS), Holocene activity is unconfirmed. This fault has been identified to be a pre-Quaternary fault (active 1.6 million years ago or longer). Another unnamed Delta fault is located further west of the Midland Fault. It is concealed where it passes beneath the westernmost tip of Sacramento County and may have been active within the past 11,000 years, although exact times of displacement are unknown. Oil and gas companies exploring the Delta area's energy potential have identified several subsurface faults, none of which show any recent surface rupture.

The Bear Mountain fault zone, which is associated with the Foothills Fault system, is located east of Sacramento County and trends northwest-southeast through Amador and El Dorado Counties. The portion of this fault zone closest to the county was last active at least 1.6 million years ago. According to CGS, faults in the Foothills Fault system are largely characterized by very slow slip rates (generally less than 0.01 millimeter per year) and seismic events occur in infrequent intervals.

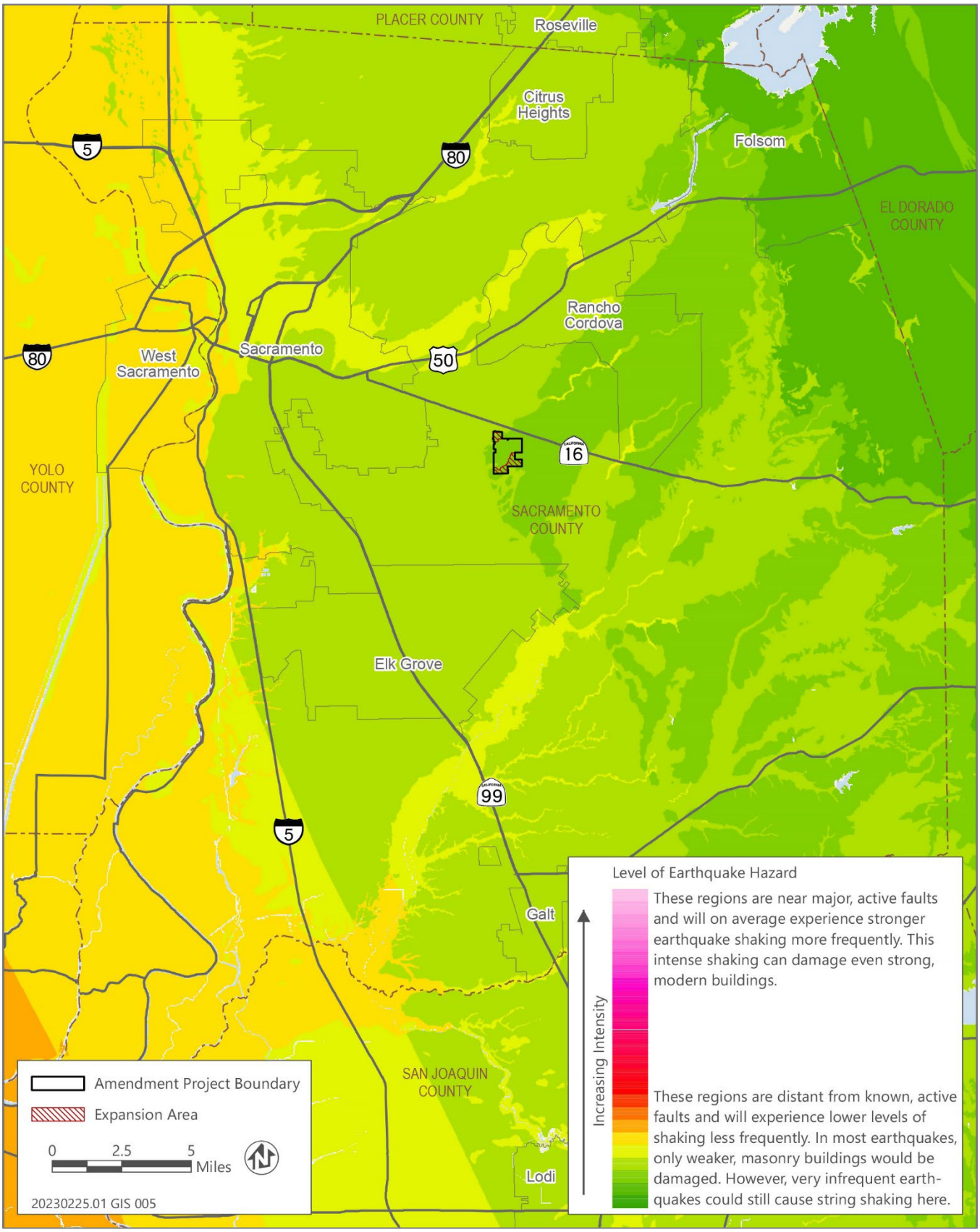
The nearest known active fault that has been mapped on the C.W. Jennings Fault Activity Map is the Dunnigan Hills Fault located approximately 44 miles to the northwest of the project site, although evidence of Holocene displacement is questionable (CGS 2010).

Potential for Seismic Activity

The intensity of ground shaking and its potential impact on structures is determined by the physical characteristics of the underlying soil and rock, building materials and workmanship; earthquake magnitude; location of the epicenter; and the character and duration of ground motion. Much of the county is located on alluvium, which increases the amplitude of earthquake waves. Ground motion lasts longer and waves are amplified on loose, water-saturated materials as compared with solid rock. As a result, structures located on alluvium typically suffer greater damage than those located on solid rock.

While Sacramento County has experienced relatively little seismic activity, faulting in neighboring regions, especially the San Francisco Bay Area and the Sierra Nevada, suggests that the county could be affected by future ground motion originating elsewhere.

CGS has prepared a map of the state that shows the earthquake shaking potential of areas throughout California based primarily on an area’s distance from known active faults. The map shows the east and central portions of the county in a relatively low intensity groundshaking zone, while the westernmost portion of the county is in a relatively moderate groundshaking zone (see Figure 11-1). The county, including the project site, is located in an area that is noted to have some of the lowest groundshaking potential in the state.



Source: Data downloaded from CGS in 2024; adapted by Ascent in 2023.

Figure 11-1: Earthquake Shaking Potential for Sacramento County

Liquefaction

Liquefaction is a process whereby the strength and stiffness of a soil is reduced by earthquake shaking or rapid cyclic loading. Sacramento County has two areas that have been suggested as posing potential liquefaction problems - the downtown Sacramento area and the Delta. The project site is not located within or near either of these areas known to have liquefaction potential. However, past mining activities surrounding the project site could have created areas that are vulnerable to liquefaction, particularly in areas where there are loose soils such as sedimentation ponds, wash water ponds, and drying beds.

Soils and Soil Hazards

Soil Types

The soils of Sacramento County can be separated into three general classifications based on geographic factors: Delta soils, flood basin soils, and bench soils. The project site is located within a portion of the county generally underlain by bench soils. Bench soils, elevated above the spreading basins, are river terraces. Due to erosion and leaching, these soils lack the high percentage of organic material found in the Delta and flood basin soils.

Soil types can also be further classified into detailed soil map units, which can be used more specifically to determine the suitability and development potential of specific uses within a soil unit. For example, some soil units may have more potential for erosion or expansion, which may affect what types of land uses or structures are appropriate within that area. The project site contains various soil units that range in characteristics, including depth to rock, the presence of hardpans, erodibility, clay content, and soil slopes (see Figure 11-2). Individual soil units are organized into map units called soil associations, which consist of soil units of the same texture and composition that occur in a geographic position. The five main soil units are described in greater detail below.

San Joaquin

The San Joaquin soil unit, as well as others it is geographically associated with, developed on Riverbank-age alluvial terraces along the eastern flank of the Central Valley (in the later Pleistocene, 100,000 to 200,000 years old). San Joaquin soils formed in old alluvium on hummocky topography. Duripans typically 2-4 feet beneath the surface restricts roots and water percolation. This soil unit consists of well and moderately well-drained soils above the duripan that formed in alluvium derived from mixed but dominantly granitic rock sources. San Joaquin soils account for approximately 17 percent of soils within the county and San Joaquin soil complexes comprise an additional 8 percent, for a total of approximately 25 percent of soils within the county.

Hedge Loam

The Hedge loam soil unit is moderately deep, moderately well drained soil that is in low areas adjacent to drainageways, on flood plains, and on low stream terraces. It formed

in alluvium derived from granitic rocks. Slopes generally are flat and level. In areas that have not been leveled, however, they are complex and are incised by many, shallow meandering drainageways and depressions. This soil unit supports mainly annual grasses and forbs.

KIMBALL SILT LOAM

The Kimball silt loam soil series is very deep, will drained soil in low, leveled areas on low terraces. It formed in alluvium derived from mixed granitic rocks. Slopes are flat and level. This soil unit supports mainly annual grasses and forbs in uncultivated areas.

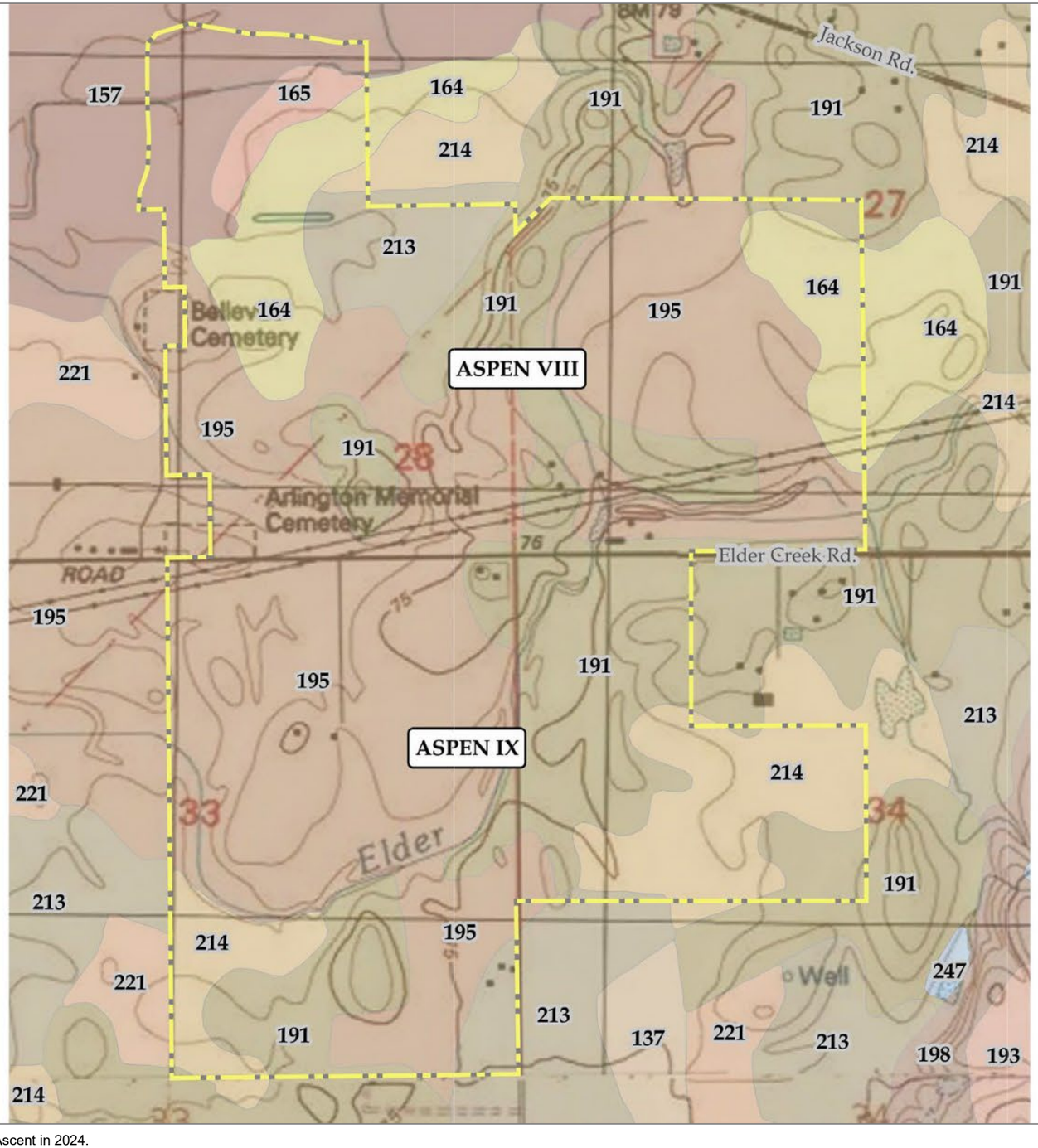
REDDING

The Redding soil unit developed on older, higher alluvial terrace landforms of the Laguna Formation (Pliocene to early-Pleistocene age). This soil unit is a well-drained, gravelly loam mineral soil that is moderately deep over a hardpan and supports primarily annual grassland. It formed in gravelly old valley fill from mixed sources but primarily derives from the Laguna Formation. The hardpan occurs at a depth of 2 to 4 feet below surface level. The soil unit is found on nearly level or dissected and undulating to hilly high terraces. Slopes are 0 percent to 30 percent.

Typically, the Redding series surface layer is strong brown gravelly loam about 7 inches thick. The upper part of the subsoil is yellowish-red loam and gravelly loam. The lower part is a claypan of reddish brown and yellowish-red gravelly clay about 8 inches thick, at about 20 inches depth with a weighted average clay content of 35 percent to 60 percent. Below this to a depth of 66 inches is a very gravelly hardpan that is strongly cemented with silica. Therefore, the Redding soil series restrictive layer is both claypan and hardpan. In some areas, the surface layer is gravelly sandy loam, loam, or sandy loam. This soil is used as rangeland or for dryland crops, such as wheat. Redding soils account for approximately 6 percent of soils in the county, predominantly in the eastern portion of the county. Redding soils are the predominant soil series occurring on the Laguna Formation.

RED BLUFF

The Red Bluff soil unit consists of very deep, well-drained loamy mineral soils formed in older terraces of the Laguna Formation. Red Bluff soils are dominant on high and intermediate terraces and have 0 percent to 9 percent slopes in elevations of 75 to 1,500 feet at mean sea level. Soil horizons nearest the surface may have maximum clay contents of 3 percent to 10 percent and deeper soil horizons have clay content ranging from 27 percent to 60 percent. The restrictive layer in the Red Bluff series is claypan at a depth of approximately 35 inches. A high content of clay, reddish color, and a significant amount of iron and manganese staining distinguish these soils from other soils in the project area. Parent materials for Red Bluff soils are gravelly and cobbly alluvium from mixed sources and laid down by an ancestral channel of the American River. This parent material consists of rounded pebbles and cobbles including dark metamorphic, quartzitic, and volcanic rocks in a granitic sand matrix, which are mid-Pleistocene age.



NATURAL RESOURCES CONSERVATION SERVICE SOIL TYPES:

- 137- Durixeralfs, 0 to 1 percent slopes
- 157- Hedge loam, 0 to 2 percent slopes
- 164- Kimball silt loam, 0 to 2 percent slopes
- 165- Kimball silt loam, 2 to 8 percent slopes
- 191- Red Bluff loam, 0 to 2 percent slopes
- 193- Red Bluff-Redding complex, 0 to 5 percent slopes
- 195- Red Bluff-Xerarents complex, 0 to 2 percent slopes
- 198- Redding gravelly loam, 0 to 8 percent slopes
- 214- San Joaquin silt loam, 0 to 3 percent slopes
- 213- San Joaquin silt loam, leveled, 0 to 1 percent slopes
- 221- San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes
- 247- Water
- Amendment Project Boundary

0 600 1,200 Feet

SOURCE:
Soil Survey Provided by USDA: NRCS (version 5, Sept. 16, 2019)
USGS 7.5' Quads: Carmichael & Elk Grove

DISCLAIMER:
The data was mapped for planning purposes only.
No liability is assumed for the accuracy of the data shown.

Sources: Adapted by Ascent in 2024.

Figure 11-2: Soils Types within the Project Site

Soil Hazards

Different types of soil have different characteristics, and some may be more suitable for development than others. Based on these characteristics, some soil types may be more prone to certain soil hazards, such as subsidence, expansiveness, landslides, erosion, or naturally occurring asbestos, as described below.

Subsidence

Subsidence is the gradual settling or sinking of the earth's surface with little or no horizontal motion. Sacramento County is affected by five types of subsidence: (1) compaction of unconsolidated soils by earthquake shaking; (2) compaction by heavy structures; (3) the erosion of peat soils; (4) peat oxidation; and (5) fluid withdrawal. The pumping of water for residential, commercial, and agricultural uses from subsurface aquifers causes the greatest amount of subsidence in Sacramento County.

As discussed above, the likelihood for substantial seismic activity in the project area is low; thus, earthquake shaking is not a major source of subsidence. Subsidence related to peat soils and heavy structures has not been an issue in the project area, including onsite under the approved project. The pumping of water for residential, commercial, and agricultural uses from aquifers is the most common cause of subsidence in the county via the fluid withdrawal mechanism. Known subsidence areas generally occur in the far western portions of Sacramento County, west of I-5; however, the project site is not near these known subsidence areas.

Expansive Soils

Expansive soils represent approximately one-third of all soil types in Sacramento County. These soils are largely composed of clays, which greatly increase in volume when water is absorbed and shrink when dried. Expansive soils are of concern because building foundations may rise during the rainy season and fall during the dry season in response to the clay's action. If movement varies under different parts of the building, the result is that foundations crack, structural portions of the building are distorted, and doors and windows are warped so that they do not function properly (Sacramento County 2017).

Landslides

A landslide is the downhill movement of masses of earth material under the force of gravity. The factors contributing to landslide potential are steep slopes, unstable terrain, and proximity to earthquake faults. This process typically involves the surface soil and an upper portion of the underlying bedrock. Expansive soil on slopes tends to shrink and swell in response to moisture content changes. During this shrinking and swelling process, gravity tends to work the soil downslope. Movement may be very rapid, or so slow that a change of position can be noted only over a period of weeks or years (creep). The size of a landslide can range from several square feet to several square miles.

The vast majority of the topography in the project area is relatively flat, with the exception of depressed mined pits, which would not be subject to landslides. While

portions of the project site are undeveloped or unmined, including the Aspen VIII and IX Expansion Areas, the existing Aspen VIII and IX mining areas are in various phases of surface mining operations, where slopes are present. However, mining pit slopes are required to be designed and engineered to maintain slope stability standards during and after mining activity is complete in accordance with the applicable Mining Use Permit and Reclamation Plan as well as applicable laws and regulations. Compliance with these requirements would minimize the potential for landslide risk for mined slopes.

SOIL EROSION

Erosion is a natural geological process by which landforms are worn down or reshaped by wind and water and the eroded material is deposited elsewhere. While natural erosion of undisturbed areas occurs in Sacramento County, it does not appear to pose a significant hazard to property. The principal area of erosion in the county is along portions of the American River bluffs.

Sacramento County, through grading and drainage ordinances, provides measures to limit or restrict construction practices that might cause erosion. For mining sites, the State requires reclamation plans that have site-specific sediment and erosion control criteria that are used for the monitoring and reclamation of these mining sites through the Surface Mining and Reclamation Act (SMARA).

NATURALLY OCCURRING ASBESTOS

Asbestos is a naturally occurring, fibrous silicate mineral mined for its useful properties, such as thermal insulation, chemical and thermal stability, and high tensile strength (greater resistance to longitudinal stress before rupturing). It was at one time commonly used as an acoustic insulator and for thermal insulation in building materials. It is often found occurring naturally in ultramafic rock, a rock closely related to serpentinite, but can also be associated with other rock types in California, though much less frequently than serpentinite and/or ultramafic rock.

Asbestos is classified as a known human carcinogen by state, federal, and international agencies and is identified as a toxic air contaminant. Asbestos poses a health risk only when it becomes friable, such as through disturbance or damage, and can cause serious health problems including lung disease and cancer if inhaled into the lungs.

Because it occurs naturally, asbestos may be released to the atmosphere due to vehicular traffic on unpaved roads, during grading activities, and at quarry operations (broken or crushed serpentinite and ultramafic rocks) in areas where it occurs. The Sacramento Metropolitan Air Quality Management District (SMAQMD) determined that naturally occurring asbestos is present within areas of eastern Sacramento County, particularly along the county's boundary within El Dorado County (SMAQMD 2017). However, as the project site is not located in the eastern portion of the county, naturally occurring asbestos is not anticipated to be located within, or in the vicinity of, the project site.

Mineral Resources

Under SMARA, the State Mining and Geology Board may designate certain mineral deposits as being regionally significant to satisfy future needs. SMARA requires the office of the State Geologist to classify lands within California based on mineral resource availability. The State Geologist is responsible for classifying lands subject to urban development by Mineral Resource Zones (MRZs) according to the presence or absence of significant sand, gravel, stone, or other deposits of value that may be suitable for mining. The process is based solely on underlying geology without regard to existing land use or land ownership. The primary goal of mineral land classification is to ensure that local government decision-makers recognize and consider the mineral potential of the land before making land use decisions that could preclude mining.

In compliance with SMARA, CGS has established the following MRZ classification system to denote both the location and significance of key extractive resources.

MRZ-1: Areas where available geologic information indicates that little likelihood exists for the presence of significant mineral resources.

MRZ-2a: Areas underlain by mineral deposits where geologic data indicate that significant resources are present. Areas classified MRZ-2a contain discovered mineral deposits that are either measured or indicated reserves as determined by such evidence as drilling records, sample analysis, surface exposure, and mine information. Land included in the MRZ-2a category is of prime importance because it contains known economic mineral deposits.

MRZ-2b: Areas underlain by mineral deposits where geologic information indicates that significant inferred resources are present. Areas classified MRZ-2b contain discovered mineral deposits that are significant inferred resources as determined by their lateral extension from proven deposits or their similarity to proven deposits. Further exploration work could result in upgrading areas classified MRZ-2b to MRZ-2a.

MRZ-3a: Areas containing known mineral occurrences of undetermined mineral resource significance. Further exploration work within these areas could result in the reclassification of specific localities into MRZ-2a or MRZ-2b categories. MRZ-3 is divided on the basis of knowledge of economic characteristics of the resource.

MRZ-3b: Areas containing inferred mineral occurrences of undetermined mineral resource significance. Land classified MRZ-3b represents areas in geologic settings that appear to be favorable environments for the occurrence of specific mineral deposits. Further exploration work could result in the reclassification of all or part of these areas into the MRZ-2a or MRZ-2b categories.

MRZ-4: Areas of no known mineral occurrences where geologic information does not rule out either the presence or absence of significant mineral resources.

The project site is located in the MRZ-2a designation. The MRZ-2a designation is defined as areas where adequate information indicates that significant mineral deposits are present or where it is judged that a high likelihood for their presences exists. Other mineral resources in the county include sand, gravel, clay, gold, silver, peat, topsoil, lignite, natural gas, and petroleum. The principal resources in production are aggregate (sand and gravel) and natural gas.

In addition to the MRZ classification system, the County has also identified aggregate resource areas (ARAs) as areas that have valuable mineral resources and need to be protected by the County as open space until the area is mined. The Aspen VIII Expansion Area is located in an ARA while the Aspen IX Expansion Area is designated as General Agriculture land use (Sacramento County 2011). As discussed in Chapter 2, "Project Description," both expansion areas have a Surface Mining Combining Zone designation, which is a County zoning overlay indicating that these parcels have been determined to be appropriate for surface mining with the grant of a use permit.

Paleontological Resources

The Society of Vertebrate Paleontology (SVP) has established guidelines for the identification, assessment, and mitigation of adverse impacts on nonrenewable paleontological resources (SVP 2010). Most practicing paleontologists in the United States adhere closely to the SVP's assessment, mitigation, and monitoring requirements as outlined in these guidelines, which were approved through a consensus of professional paleontologists and reflect the currently accepted standard practices. Many federal, state, county, and city agencies have either formally or informally adopted the SVP's standard guidelines for the mitigation of adverse construction-related impacts on paleontological resources. The SVP has helped define the value of paleontological resources and, in particular, indicates the following:

- Vertebrate fossils and fossiliferous (fossil-containing) deposits are considered significant nonrenewable paleontological resources and are afforded protection by federal, state, and local environmental laws and guidelines.
- A paleontological resource is considered to be older than recorded history, or 5,000 years before present, and is not to be confused with an archaeological resource.
- Invertebrate fossils are not significant paleontological resources unless they are present within an assemblage of vertebrate fossils or they provide undiscovered information on the origin and character of the plant species, past climatic conditions, or the age of the rock unit itself.
- A project paleontologist, special interest group, lead agency, or local government can designate certain plant or invertebrate fossils as significant.

In accordance with these principles, SVP has outlined criteria for screening the paleontological potential of rock units and established assessment and mitigation procedures tailored to such potential (SVP 2010). Table 11-1 lists the criteria for high-potential, undetermined, and low-potential rock units.

Table 11-1: Paleontological Potential Criteria

Paleontological Potential	Description
High	Geologic units from which vertebrate or significant invertebrate or plant fossils have been recovered. Invertebrate fossils that provide new information on existing flora or fauna or on the age of a rock unit would also be considered significant.
Undetermined	Geologic units for which little to no information is available.
Low	Geologic units that are not known to have produced a substantial body of significant paleontological material.

Source: SVP 2010.

Sacramento County is not located in an area considered to be highly sensitive for paleontological resources present in fossil-bearing soils and rock formations, although few areas are considered sensitive. However, all prior published paleontological resources discovered within Sacramento County have been found within Pleistocene formations, which are considered sensitive for paleontological resources (Sacramento County 2010). The project site is underlain by Pleistocene-Holocene and Pliocene-Pleistocene formations and, therefore, the potential to encounter paleontological resources could be considered high (DOC 2010).

Regulatory Setting

State

Alquist-Priolo Earthquake Fault Zoning Act

The 1972 Alquist-Priolo Earthquake Fault Zoning Act regulates development near active faults to mitigate the hazard of surface fault rupture. Under this act, the State Geologist is required to delineate earthquake fault zones along known active faults in California. Cities and counties affected by these zones must regulate certain developments within these zones and withhold development permits for sites until geologic investigations demonstrate that they are not threatened by surface displacements from future faulting. For the purposes of this act, an active fault is defined as a fault that has “had surface displacement within Holocene time” (about the last 11,000 years). Sacramento County is not affected by Earthquake Fault Zones.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act of 1990 requires the State Geologist to delineate liquefaction and earthquake-induced landslide hazard zones in the state. Cities and counties affected by these hazard zones must regulate certain developments within these zones and withhold development permits for sites until geologic investigations demonstrate they are not threatened by liquefaction, earthquake, or induced landsliding during future earthquakes. Sacramento County is located outside of the Seismic Hazard Mapping Zones (CGS 2024).

Surface Mining and Reclamation Act

SMARA establishes State policy for the reclamation of mined lands and the conduct of surface mining operations to minimize adverse environmental impacts and to reclaim mined land to a usable condition. SMARA is comprised of two primary elements that together govern the reclamation of mined lands:

- California Surface Mining Reclamation Act of 1975, as amended (Public Resource Code Section 2710 et seq.); and
- State Mining and Geology Board implementing regulations (California Code of Regulations (CCR), Title 14, Section 3500 et seq.).

This law and its implementing regulations require review and enforcement of mandated reclamation plans for each mine. These plans are required to identify the proposed or potential end uses that mined land will be returned to after completion of mining. Financial assurances (guarantees, such as a performance bond or letter of credit) are required to be posted by the operator with the County to ensure that reclamation can still be completed in the event that the mine operator abandons the mining operation and/or does not fully fulfill its reclamation obligations. SMARA also requires that an annual inspection be conducted to review the progress of reclamation, compliance with an approved reclamation plan, and to ensure that the financial guarantee amount is appropriate.

SMARA reclamation plans are required to have the following components that are related to geology and soils of mining sites:

- A map showing the existing and final topography of the mined lands.
- A description of measures to protect public health and safety.
- A description of proposed or potential end uses.
- A description of the impact of reclamation on future mining in the area.
- A description of the environmental setting of the mine, including geology, soils, and seismicity.
- A description of the effects of reclaimed conditions on surrounding land uses.
- A demonstration that final slopes will have a minimum factor of safety for the end use.
- A description of the manner in which backfilling, regrading, slope stabilization, scarification, ripping, and recontouring will occur.
- A description of drainage, sediment, and erosion control measures, with an emphasis on protecting surrounding land and water resources.
- A description of the manner in which topsoil will be salvaged and re-soiling will occur.
- A description of the manner in which the site will be revegetated, including performance standards and monitoring.

NPDES Industrial General Permit for Stormwater Discharges Associated with Industrial Activity

The National Pollutant Discharge Elimination System (NPDES) permit program in California has been delegated to the State Water Resources Control Board and regional water quality control boards. The goal of the NPDES nonpoint source regulations is to improve the quality of stormwater discharged to receiving waters to the "maximum extent practicable" through the use of best management practices.

The Statewide General Permit for Stormwater Discharges Associated with Industrial Activities (Industrial General Permit) (Order 2014-0057-DWQ, as amended in 2015 and 2018) regulates industrial storm water discharges and authorized non-storm water discharges from industrial facilities in California. Industrial facilities such as manufacturers, landfills, mining, steam generating electricity, hazardous waste facilities, transportation with vehicle maintenance, larger sewage and wastewater plants, recycling facilities, and oil and gas facilities are typically required to obtain coverage under the Industrial General Permit. As part of obtaining coverage under the Industrial General Permit, the State requires that these facilities file a Notice of Intent, which is an application for permit coverage, and develop a Stormwater Pollution Prevention Plan, as well as conduct monitoring and sampling to determine if pollutants are leaving the facility in stormwater runoff (SWRCB 2025).

Local

Sacramento County 2030 General Plan

The following 2030 General Plan policies would apply to the proposed project:

- **Policy AG-28.** The County shall actively encourage conservation of soil resources.
- **Policy CO-39:** Surface mining operations shall be subject to appropriate mitigation measures and shall avoid creating any significant nuisances, hazards, and adverse environmental impacts, unless the Board of Supervisors makes the findings to override as required by CEQA Guidelines Section 15091.
- **Policy CO-40:** Extractive uses and associated processing uses and facilities shall maintain adequate minimum setbacks to protect adjoining land uses.
- **Policy CO-41:** Surface mining shall not be allowed without adequate plans for reclamation of mined areas. Reclamation plans should be based on a plan for post-mining land use that is consistent with the land use strategies of the General Plan.
- **Policy CO-57:** In areas where topsoil mining is permitted, it shall be done so as to maintain the long-term productivity of the soil.
- **Policy CO-161.** As a condition of approval for discretionary projects, require appropriate mitigation to reduce potential impacts where development could adversely affect paleontological resources.

- **Policy CO-162.** Projects located within areas known to be sensitive for paleontological resources, should be monitored to ensure proper treatment of resources and to ensure crews follow proper reporting, safeguards and procedures.
- **Policy CO-163.** Require that a certified geologist or paleoresources consultant determine appropriate protection measures when resources are discovered during the course of development and land altering activities.

Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project because the project site is located within its plan area.

Vineyard Community Plan

The Vineyard Community Plan includes the following policy related to mining:

- **Policy NER 7.** Continue to utilize the Surface Mining Combining Zone for the preservation of aggregate resources and for the protection of area residents through mitigation provisions contained within that zone.

Surface Mining Ordinance

The County's Surface Mining Ordinance is established in Chapter 20.04 of the County Code. The purpose and intent of Chapter 20.04 of the County Code is to ensure the continued availability of important mineral resources, while regulating surface mining operations as required by SMARA, Public Resources Code Section 2007 (relating to annual reporting requirements), and State Mining and Geology Board regulations for surface mining and reclamation practice, to ensure that:

- Adverse environmental effects are prevented or minimized and mined lands are reclaimed to a usable condition which is readily adaptable for alternative land uses.
- The production and conservation of minerals are encouraged, while giving consideration to values relating to recreation, watershed, wildlife, range and forage, and aesthetic enjoyment.
- Residual hazards to public health and safety are eliminated.

Significance Criteria and Methodology

Significance Criteria

Based on Appendix G of the State CEQA Guidelines, impacts to geology, soils, paleontological resources, and mineral resources would be significant if implementation of the proposed project would:

- directly or indirectly cause potentially substantial adverse effects, including the risk of loss, injury, or death involving:

  - rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist of the area or based on other substantial evidence of a known fault,
  - strong seismic ground shaking,
  - seismic-related ground failure, including liquefaction,
  - landslides, or
  - unsafe exposure to naturally occurring asbestos;
- result in substantial soil erosion or the loss of topsoil;
- be located on a geological unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse;
- be located on expansive soil as defined in Table 18-1-B of the Uniform Building Code, creating substantial direct or indirect risks to life or property;
- have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater;
- directly or indirectly destroy a unique paleontological resource or site or unique geologic feature; or
- result in the loss of availability of a known mineral resource that would be of value to the region or the state or a locally important mineral resource recovery site delineated on a land use plan.

ISSUES NOT DISCUSSED FURTHER

ADVERSE EFFECTS ASSOCIATED WITH RUPTURE OF AN EARTHQUAKE FAULT, STRONG SEISMIC GROUND SHAKING, AND SEISMIC-RELATED GROUND FAILURE

The 2016 Final EIR stated that there are no Alquist-Priolo Zones (earthquake faults) or Seismic Hazards Zones mapped within the approved project site and, thus, the exposure to know earthquake faults and seismic hazards would be minimal. Therefore, the 2016 Final EIR determined that this issue did not warrant detailed analysis as no impact would occur.

Because the project site is located adjacent to approved project site within the same geographic area, the geologic and seismic conditions described for the approved project would be the same for the proposed project. Because there are no known earthquake faults located within the project site or in the vicinity, the potential exposure to known earthquake faults and seismic hazards associated with the proposed project would be minimal, similar to the approved project. Therefore, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

ADVERSE EFFECTS ASSOCIATED WITH EXPOSURE TO EXPANSIVE SOILS

The 2016 Final EIR did not evaluate impacts related to expansive soils and, thus, did not include a significance determination for this issue area.

As discussed in the "Environmental Setting" section above, expansive soils are of concern to building foundations as they may raise during wet season and fall during dry season. However, the proposed project does not include the development of any permanent buildings on the project site but would instead involve removing soils, including any potential expansive soils, from the project site. For this reason, there is minimal potential for the proposed project to be damaged from expansive soils. Impacts to life or property as a result from expansion soils would not occur. No further analysis is warranted in this SEIR.

EXPOSURE TO NATURALLY OCCURRING ASBESTOS

The 2016 Final EIR stated that the approved project site is not located in or near an area with naturally occurring asbestos. As such, there is no potential for substantial adverse effects due to naturally occurring asbestos exposure and this topic was not discussed further in the 2016 Final EIR.

Because the project site is located adjacent to the approved project site within the same geographic area, the project site would also not be located in or near an area with naturally occurring asbestos. As such, the proposed project would not expose people to naturally occurring asbestos. Therefore, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

USE OF SEPTIC TANKS OR ALTERNATIVE WASTEWATER DISPOSAL SYSTEMS

The approved project did not include the installation of septic tanks or alternative wastewater disposal systems. Instead, the approved project utilized portable toilets, which were brought to the approved project site and maintained on a regular schedule. As a result, the 2016 Final EIR determined that this issue did not warrant detailed analysis as no impact would occur.

Similar to the approved project, the proposed project would continue to utilize portable toilets and would not install septic tanks or alternative wastewater disposal systems on the project site. As such, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

METHODOLOGY

In general, the geotechnical characteristics of the project site determine the potential for structural and safety hazards, as well as mineral resource impacts that could occur with implementation of the proposed project. The following analysis is based on information from the previously identified documents and resources, including:

- *Supplemental Geotechnical Evaluation – Teichert aspen VIII & IX Expansion Areas, Sacramento County, California*, prepared by Geocon, dated June 7, 2024 (Geocon 2024);
- *Geotechnical Memorandum – Teichert Aspen VIII and IX – Additional Seepage and Slope Stability Evaluation, Sacramento County, California*, prepared by Geocon, dated July 7, 2016 (Geocon 2016a);
- *Geotechnical Memorandum – Teichert Aspen VIII and IX – Additional Seepage and Slope Stability Evaluation, Sacramento County, California*, prepared by Geocon, dated July 25, 2016 (Geocon 2016b); and
- *Geotechnical Memorandum – Teichert Aspen VIII and IX – Additional Seepage and Slope Stability Evaluation, Sacramento County, California*, prepared by Geocon Consultants, Inc. (Geocon), dated December 11, 2014 (Geocon 2014).

These memoranda are provided in Appendix F.

IMPACTS AND ANALYSIS

IMPACT GS-1: EXACERBATE UNSTABLE SOIL CONDITIONS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would result in potentially significant impacts related to unstable soil, including off-site landslides, lateral spreading, subsidence, liquefaction or collapse (Impact Evaluation GS-1). The 2016 Final EIR included Mitigation Measure GS-1, which requires all reclaimed slopes and berms to be designed and engineered in accordance with the recommendations established in the geotechnical evaluations prepared for the approved project as approved and annually monitored by the County of Sacramento Department of Water Resources to ensure increased stability, reduced under-seepage potential, and stabilized foundations. Therefore, the 2016 Final EIR determined that impacts would be less than significant with implementation of Mitigation Measure GS-1. At the time of preparation of this SEIR, the project applicant is continuing to implement Mitigation Measure GS-1 under the approved project.

PROPOSED PROJECT IMPACT EVALUATION

Slope instability could occur with implementation of the proposed project during and after the surface mining and reclamation phases if slopes are not designed or engineered correctly, which could cause potentially significant impacts.

Similar to the approved project, slope stability modeling was conducted as part of the design and engineering process for the proposed project to ensure the slopes of the mining pits maintain their stability and integrity during and after the surface mining and reclamation phases. As shown in the Aspen VIII and IX Expansion Areas Mining Plans and the Amended Reclamation Plan for the proposed project (refer to Figures 2-7, 2-9, and 2-15 in Chapter 2, “Project Description”), final slopes would be constructed no steeper than two

feet horizontal to one foot vertical (2H:1V), with rounded edges to mimic surrounding landforms, and then seeded to prevent erosion. This construction and reclamation method is recognized as the industry standard for reclaimed slopes of surface mining pits and is typical for surface mining operations in the area (Geocon 2016b).

Similar to the previously approved project, the slopes of the Aspen IX Expansion Area adjacent to Elder Creek and the Elder Creek Open Space Preserve (Preserve) would be setback from the creek by a minimum of 150 feet. The proposed perimeter berm would be approximately three feet high and would be constructed at existing grade using overburden and topsoil. The topsoil would be maintained and stored in accordance with SMARA code section 3711 standards. The mine pit slopes would descend at slopes of no steeper than 2H:1V, from the high side or land side toe of the embankment to the planned mining depth. The side slopes would be 3H:1V for the berms and berms would be 12 feet wide.

While the Preserve creates a natural buffer between the Aspen IX Expansion Area and Elder Creek, the potential still exists for under-seepage and slope instability under certain hydrologic conditions, similar to those identified for the approved project. To reduce under-seepage potential and ensure slope stability, the proposed project would be required to implement Adopted 2016 Final EIR Mitigation Measure GS-1 from the 2016 Final EIR, which has been revised based on the characteristics of the project site. In addition, Revised 2016 Final EIR Mitigation Measure GS-1 requires the approval of the final design of the reclaimed slopes/berms and annual monitoring of the project site by the County of Sacramento Department of Water Resources, which would ensure adequate conditions are maintained throughout the life of the proposed project. Implementation of Revised 2016 Final EIR Mitigation Measure GS-1 would minimize the risk of unstable soils on the project site due to slope instability and water seepage issues.

Adherence to the requirements of Revised 2016 Final EIR Mitigation Measure GS-1 would minimize impacts related to exacerbating unstable soil conditions associated with implementation of the proposed project. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts to unstable soils would not be substantial and the overall impacts would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measure GS-1.

REVISED 2016 FINAL EIR MITIGATION MEASURE GS-1: RECLAMATION SLOPES AND BERMS MITIGATION MEASURE

A. Reclamation slopes shall be constructed at 2H:1V or flatter.

B. To reduce potential for seepage along pipe penetrations (if present), concrete cut-off collars at pipe penetrations through the embankment shall be constructed to the satisfaction of the County of Sacramento Department of Water Resources.

Reinforced concrete cut-off collars shall completely encircle the pipe and be sized so that they are 12 to 18 inches larger than the normal outside diameter of the pipe. Thickness shall be at least six inches. Water-tight filler shall be used between collars and pipes.

C. At the beginning of each year (in the month of January) a written report identifying the slopes built adjacent to Elder Creek and Preserve during the previous calendar year and the methodology employed shall be submitted to the Department of Community Development, Aggregate Resources Manager for review. The report shall indicate whether such slopes were constructed in a manner consistent with the Geocon *Seepage and Stability Evaluation*. The report shall also include a performance evaluation of all slopes built adjacent to Elder Creek and Preserve to date and appropriate measures to corrected any deficiencies, if necessary. This report shall be prepared by a registered and licensed civil engineer in good standing.

D. Before final reclamation signoff; a statement prepared by a registered and licensed civil engineer in good standing that documents that the slopes are in good repair, stable and safe shall be presented to the Department of Community Development, Aggregate Resources Manager for review.

Impact GS-2: Result in Substantial Soil Erosion

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project would require removal of topsoil prior to commencement of surface mining activities, which could result in potential soil erosion and/or loss of topsoil when stockpiled with overburden waiting to be used by reclamation activities (Impact Evaluation GS-2). The 2016 Final EIR included Mitigation Measure GS-2, which required compliance with topsoil handling and stockpiling measures contained in the Reclamation Plan prepared for the approved project to minimize the risk of erosion and/or loss of topsoil. Therefore, the 2016 Final EIR determined that impacts would be less than significant with implementation of Mitigation Measure GS-2. At the time of preparation of this SEIR, the project applicant is continuing to implement Mitigation Measure GS-2 under the approved project.

Proposed Project Impact Evaluation

Similar to the approved project, the proposed project would include the removal of topsoil along with overburden as part of surface mining activities, which could result in the soil erosion or loss of topsoil if not handled or stored in accordance with proper industry standards. This could result in substantial soil erosion because topsoil is the growth media of the soil, meaning it contains organic materials that assist in plant growth crucial for reclamation of the project site. If the removed topsoil erodes or is greatly combined with overburden, then heavy fertilizer use would be required with either the topsoil/overburden mix or pure overburden to obtain the same results as topsoil.

Topsoil handling and storage for surface mining operations and reclamation efforts is regulated through SMARA. Under SMARA, CCR Section 3711 establishes proper procedures for topsoil removal, storage, and redistribution, including not removing topsoil more than a year in advance of mining, separating and clearly labeling topsoil from other stockpiles, not disturbing topsoil until it is ready for distribution, and redistributing topsoil in a stable area at consistent thickness. Upon reclamation, CCR Section 3705 outlines the requirements for revegetation to prevent erosion and protect topsoil, including using a suitable end use vegetative cover, decompaction of the site, using native plant species (unless exotic species meet end use), planting during the correct season, using soil stabilizing practices and irrigation, and fertilizing in such a way as to not contaminate local water sources.

These requirements under SMARA and subsequently, CCR Sections 3711 and 3705, have been incorporated into the Amended Reclamation Plan for the proposed project. The proposed project would be required to comply with SMARA, including CCR Sections 3711 and 3705, as enforced through the Amended Reclamation Plan. As established in the Amended Reclamation Plan, topsoil and overburden that is not used immediately for localized reclamation activities would be stockpiled in an area that would not be disturbed, and seeded if long-term storage is necessary, to minimize the risk of soil erosion or loss of topsoil. Once the surface mining and localized reclamation phase is complete, final reclamation of the project site would occur in accordance with the Amended Reclamation Plan. As described therein, the reclaimed project site would consist of open space annual grassland, irrigated pasture suitable for grazing, and stormwater retention pond areas, which is a similar end use as other existing surrounding mining areas.

Because the proposed project is legally required to comply with the requirements of SMARA and consequently, the Amended Reclamation Plan that incorporates these requirements, regulatory compliance would achieve the purpose of Adopted 2016 Final EIR Mitigation Measure GS-2 and, therefore, Adopted 2016 Final EIR Mitigation Measure GS-2 is not required for the proposed project. Compliance with SMARA, including CCR Sections 3711 and 3705, as enforced through the Amended Reclamation Plan would reduce impacts related to topsoil and soil erosion to less than significant. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR.

This impact would be reduced under the proposed project compared to the approved project because the proposed project would not require implementation of Adopted 2016 Final EIR Mitigation Measure GS-2 as regulatory compliance would achieve the purpose of this mitigation measure and would reduce impacts to a less-than-significant level. As such, the proposed project's contribution to this impact would not be substantial and the overall impact would be reduced to **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT GS-3: POTENTIAL DESTRUCTION OF BURIED PALEONTOLOGICAL RESOURCES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that unanticipated paleontological resources could be discovered during ground-disturbing activities associated with the approved project (Impact Evaluation GS-3). The 2016 Final EIR included Mitigation Measure CR-2 in Chapter 15, "Cultural Resources," which established protocol for unanticipated cultural discoveries, which included provisions for paleontological resources. Because implementation of Mitigation Measure CR-2 would prevent the direct or indirect destruction of a unique paleontological resource or site in the event an unknown paleontological resource is discovered during ground-disturbing activities, the 2016 Final EIR determined that impacts would be less than significant. At the time of preparation of this SEIR, the approved project is still subject to the requirements of Mitigation Measure CR-2.

PROPOSED PROJECT IMPACT EVALUATION

Similar to the approved project, the proposed project would also include ground disturbance during the surface mining and reclamation phases, which have the potential to uncover previously unknown paleontological resources. To prevent the direct or indirect destruction of a unique paleontological resource or site, the proposed project would also be required to implement the Adopted 2016 Final EIR Mitigation Measure CR-2, which has been revised based on the recommendations of the *Cultural Resources Technical Report* prepared for the proposed project. Revised 2016 Final EIR Mitigation Measure CR-2 requires all surface mining activities to be halted within 100 feet of the find and the proper protocols to be implemented in accordance with all applicable regulations, which would minimize adverse effects to paleontological resources. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to impacts related to paleontological resources would not be substantial and the overall impacts would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measure CR-2 as described in Chapter 9, "Cultural Resources."

IMPACT GS-4: OBSTRUCTION OF ACCESS TO MINERAL RESOURCES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would not obstruct access to mineral resources because the approved project is a surface mining project that would extract aggregate resources for use within the county and state (see Chapter 18, "Summary Of Impacts And Their Disposition," on page 18-16 of the 2016

Final EIR). For this reason, the 2016 Final EIR determined that impacts related to obstruction of access to mineral resources would be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

Similar to the approved project, the proposed project is a surface mining project that would expand surface mining and reclamation activities by 245.64 acres on the project site. Implementation of the proposed project would continue to allow the project applicant to mine for aggregate material within the project area, which has already been designated for such purposes and already includes existing mining infrastructure. Therefore, implementation of the proposed project would not obstruct access to mineral resources but rather provide access to new areas where known mineral resources are located. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

12 GREENHOUSE GAS EMISSIONS

INTRODUCTION

This chapter evaluates the potential impacts related to greenhouse gas (GHG) emissions resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the current state of climate change science and GHG emissions sources in California; discusses applicable federal, state, and local regulations and policies related to GHG emissions; and assesses the potential impacts related to GHG emissions from implementation of the proposed project. This section is based on the *Air Quality, Health Risk, and Greenhouse Gas Assessment* prepared by Ascent in January 2025, presented in Appendix B1.

No comments regarding GHGs or climate change were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, “Project Description”, the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3). The project site is currently undeveloped, grassland areas with no active onsite uses.

GREENHOUSE GAS EMISSIONS AND CLIMATE CHANGE

Certain gases in the Earth’s atmosphere, classified as GHGs, play a critical role in determining the Earth’s surface temperature. Solar radiation enters the atmosphere from space. A portion of the radiation is absorbed by the Earth’s surface, and a smaller portion of this radiation is reflected toward space. The absorbed radiation is then emitted from the Earth as low-frequency infrared radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead “trapped,” resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on Earth.

Prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Emissions of CO_2 are byproducts of fossil fuel combustion. Methane, a highly potent GHG, primarily results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices, landfills, and forest fires. Nitrous oxide is also largely attributable

to agricultural practices and soil management. CO_2 sinks, or reservoirs, include vegetation and the ocean, which absorb CO_2 through sequestration and dissolution (the process by which CO_2 dissolves into the water), and are two of the most common processes for removing CO_2 from the atmosphere.

Human-caused emissions of these GHGs in excess of natural ambient concentrations are found to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the Earth's climate, known as global climate change or global warming. The likely range of human-induced warming in global-mean surface air temperature in 2010–2019 relative to 1850–1900 is 0.8 degrees Celsius (°C) – 1.3°C, encompassing the observed warming of 0.9°C–1.2°C, while the change attributable to natural forcings is only −0.1°C to +0.1°C. It is very likely that human-induced GHG increases were the main driver of tropospheric warming since comprehensive satellite observations started in 1979, and virtually certain that human-induced GHG forcing is the primary driver of the observed changes in hot and cold extremes on the global scale (IPCC 2021).

Climate change is a global problem as GHGs are global pollutants, unlike air pollutants and toxic air contaminants, which are pollutants of regional and local concern. Whereas most pollutants with localized air quality effects have relatively short atmospheric lifetimes (approximately 1 day), GHGs have long atmospheric lifetimes (1 year to several thousand years). GHGs persist in the atmosphere long enough to be dispersed globally. Although the lifetime of any GHG molecule depends on multiple variables and cannot be determined with any certainty, it is understood that more CO_2 is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, and other forms of sequestration. Of the total annual human-caused CO_2 emissions, approximately 56 percent are estimated to be sequestered through ocean and land uptake every year, averaged over the last 50 years, whereas the remaining 44 percent of human-caused CO_2 emissions remain stored in the atmosphere (IPCC 2023).

The quantity of GHGs in the atmosphere responsible for climate change is not precisely known, but it is considered to be enormous. No single project alone would measurably contribute to an incremental change in the global average temperature or to global or local climates or microclimates. From the standpoint of CEQA, GHG impacts relative to global climate change are inherently cumulative.

Attributing Climate Change – Greenhouse Gas Emission Sources

Emissions of GHGs contributing to global climate change are attributable in large part to activities associated with the transportation, industrial/manufacturing, utility, residential, commercial and agricultural emissions sectors. In California, the transportation sector is the largest source of GHG emissions, followed by electricity generation.

Based on the community GHG emissions inventory prepared for the Sacramento County 2024 Climate Action Plan (CAP), the unincorporated Sacramento County generated 4,159,600 metric tons of carbon dioxide equivalent ($MTCO_2e$) in 2021 (Table 12-1). Of the total 2021 GHG emissions, the largest emitters of GHG emissions were

the on-road vehicles sector at 44.3 percent; residential building energy at roughly 21.1 percent; and commercial/industrial building energy consumption stands at 13.4 percent, aligning with statewide trends (County of Sacramento 2024).

Table 12-1: 2021 Unincorporated Sacramento County Community GHG Emissions Inventory by Sector

Emissions Sector	2021 GHG Emissions ($MTCO_2e$/year)	Percent of Total
On-Road Vehicles	1,844,200	44.3%
Off-Road Vehicles	107,200	2.6%
Residential Building Energy	878,300	21.1%
Commercial/Industrial Building Energy	555,600	13.4%
High-Global Warming Potential Gases	317,800	7.6%
Agriculture	266,500	6.4%
Solid Waste	156,700	3.8%
Water and Wastewater	33,300	<1%
Total	**4,159,600**	**100%**

Notes: Totals may not equal the sum of the numbers because of independent rounding.

$MTCO_2e$ = metric tons of carbon dioxide equivalent.

Source: Sacramento County 2024.

REGULATORY SETTING

FEDERAL

CLEAN AIR ACT

In *Massachusetts et al. v. Environmental Protection Agency et al.,* 549 U.S. 497 (2007), the Supreme Court of the United States ruled that CO_2 is an air pollutant as defined under the federal Clean Air Act (CAA) and that the US Environmental Protection Agency (EPA) has the authority to regulate GHG emissions. In 2010, EPA started to address GHG emissions from stationary sources through its New Source Review permitting program, including operating permits for “major sources” issued under Title V of the CAA.

NON-ROAD COMPRESSION-IGNITION ENGINE STANDARDS

EPA established a series of increasingly strict emission standards for new non-road diesel engines. Tier 1 standards were phased in on newly manufactured equipment from 1996 to 2000, depending on the engine horsepower category. Tier 2 standards were phased in on newly manufactured equipment from 2001 through 2006. Tier 3 standards were phased in on newly manufactured equipment from 2006 through 2008. Tier 4 standards, which require advanced emission control technology to attain them, were phased in between 2008 and 2015.

State

Statewide GHG Emission Targets and Climate Change Scoping Plan

Reducing GHG emissions in California has been the State government's focus for approximately two decades. GHG emission targets established by the State legislature include reducing statewide GHG emissions to 1990 levels by 2020 (Assembly Bill [AB] 32 of 2006) and reducing them to 40 percent below 1990 levels by 2030 (Senate Bill [SB] 32 of 2016).

These targets were superseded by the enactment of AB 1279 in 2022, which establishes the policy of the state to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that by 2045, statewide anthropogenic GHG emissions are reduced by at least 85 percent below 1990 levels.

CARB released the Final 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) on November 16, 2022, as directed by AB 1279 (CARB 2022). The 2022 Scoping Plan outlines the pathway for the State to achieve the goals set forth in AB 1279 and includes several regulations, plans, and policies aimed at reducing energy consumption, improving energy efficiency, and increasing renewable energy resources within the State. CARB adopted the 2022 Scoping Plan on December 16, 2022.

Low Carbon Fuel Standard

Originally mandated that a statewide goal be established to reduce the carbon intensity of California’s transportation fuels by at least 10 percent by 2020 (17 California Code of Regulations [CCR] Section 95480 et seq.). In September 2018, to help achieve SB 32’s emission reduction target, the Low Carbon Fuel Standard (LCFS) regulation was amended to increase the statewide goal to a 20 percent reduction in carbon intensity of California’s transportation fuels by 2030. The LCFS applies to fuels used by on-road motor vehicles and off-road vehicles, including construction equipment. The majority of the emissions benefits from the LCFS stem from the production cycle (upstream emissions) of the fuel, rather than the combustion cycle (tailpipe). On November 8, 2024, CARB approved amendments to the LCFS regulation to maintain momentum for global, national, and local private sector investment toward increasing cleaner fuel and transportation options for consumers, accelerating the deployment of zero-emission infrastructure and clean fuel production to support clean vehicle regulations, and keeping the state on track to meet statutorily mandated air quality and climate targets (CARB 2025). On January 3, 2025, CARB submitted the final proposed LCFS amendments to the Office of Administrative Law (OAL) for review in accordance with Government Code Section 11349.1 (CARB 2025). On February 18, 2025, OAL issued a routine disapproval of amendments to the LCFS regulation on technical grounds, not on the merits of the regulation. CARB staff made necessary revisions and resubmitted the regulation for OAL approval on May 16, 2025. On June 27, 2025, OAL approved this rulemaking and filed it with the Secretary of State with an effective date of July 1, 2025.

Regional

Sacramento Metropolitan Air Quality Management District

The Sacramento Metropolitan Air Quality Management District (SMAQMD) is the primary agency responsible for addressing air quality concerns in all of Sacramento County. Its role is discussed further in Chapter 6, "Air Quality," of this SEIR. In its CEQA Guide, SMAQMD recommends methods for analyzing GHG emissions in CEQA analyses for project- and program-level analyses and offers multiple potential reduction measures for land use development projects. SMAQMD developed thresholds of significance to provide a uniform scale to measure the significance of GHG emissions from land use and stationary source projects in compliance with CEQA to align with the statewide GHG target of 40 percent below 1990 levels by 2030, with the passage of SB 32 for land use development projects (SMAQMD 2021). These thresholds and their relation to the State's GHG reduction goals are discussed in below in "Significance Criteria and Methodology" section.

Local

Sacramento County 2030 General Plan

The following 2030 General Plan policy would apply to the proposed project:

- **Policy AQ-4.** Developments which meet or exceed thresholds of significance for ozone precursor pollutants, and/or GHGs as adopted by SMAQMD, shall be deemed to have a significant environmental impact. An Air Quality Mitigation Plan and/or a GHG Reduction Plan shall be submitted to the County of Sacramento prior to project approval, subject to review and recommendation as to technical adequacy by SMAQMD.

Sacramento County Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project, as the project site is located within the plan area.

Vineyard Community Plan

The Vineyard Community Plan does not contain policies related to GHG emissions or climate change that would apply to the proposed project.

Sacramento County 2024 Climate Action Plan

The Sacramento County Board of Supervisors approved the Final Climate Action Plan (2024 CAP) on November 5, 2024 (Sacramento County 2024). The 2024 CAP is a comprehensive plan for reducing GHG emissions and adapting to the effects of climate change that identifies strategies and measures to meet the State's 2030 and 2045 GHG emissions reduction targets. The 2024 CAP is a multi-objective plan that balances environmental, economic, and community interests; provides mechanisms to reduce GHG emissions associated with implementing the Sacramento County General Plan of

2005–2030; and aligns with multiple County initiatives. The 2024 CAP establishes a long-term GHG emissions reduction target for 2045 that aligns with the AB 1279 target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The 2030 GHG reduction target is also aligned with the 2022 Scoping Plan's accelerated target to reduce GHG emissions to 48 percent below 1990 levels by 2030.

Significance Criteria and Methodology

Significance Criteria

Based on Appendix G of the State CEQA Guidelines, impacts related to GHG emissions would be significant if implementation of the proposed project would:

- generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or
- conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

While the County adopted its 2024 CAP to serve as the framework for assisting the County in achieving its GHG emission reduction targets, the 2024 CAP has been developed primarily to address GHG emissions resulting from the addition of square footage and parking and the generation of vehicle trips (i.e., physical development and transportation-related sources of GHGs). As the proposed project is a surface mining operation that would not involve additional building square footage and would not generate haul truck trips or additional employee vehicle trips, the reduction strategies in the 2024 CAP are not applicable to this project type. For this reason, the use of the 2024 CAP would not be the most appropriate approach for determining potential impacts related to GHG emissions associated with the proposed project's implementation.

SMAQMD guidance recommends that projects initially use the Greenhouse Gas Operations Screen Levels table contained within the SMAQMD CEQA Guide to determine if a project requires further analysis of GHG impacts (e.g., if project attributes are less than those in the table, then resultant emissions are considered less than significant). However, the Greenhouse Gas Operations Screen Levels table does not contain a land use category that equates to mining projects. According to SMAQMD guidance, if a land use development project does not initially screen out, project emissions should be estimated quantitatively and compared to SMAQMD's project-level threshold of 1,100 $MTCO_2e$ per year following the application of SMAQMD's Tier 1 BMPs (i.e., all electric development and adhering to the Tier 2 Voluntary standards of the CALGreen Code).

In past surface mining projects located within Sacramento County, the threshold of significance for the commercial and industrial sector was determined using the Sacramento Area Council of Governments' (SACOG's) 2020 projection of building square footage for this sector. However, as time has passed, it has been recognized

that a significance threshold based on building square footage is inappropriate, given that mining operations are primarily exterior and can occur over large swaths of land. Mining projects differ from land development or construction projects, as they typically do not involve developing land for future uses or building onsite structures (e.g., residences and office space); instead, they merely extract aggregate materials. Furthermore, most mine operations do not simultaneously excavate the entire site; instead, the site is mined in smaller phases. The operator may work one phase of a mining project for over a year. Therefore, rather than utilizing SMAQMD's threshold of 1,100 $MTCO_2e$ per year, which is intended for typical land development projects, such as residential developments, this analysis employs SMAQMD's stationary sources operational phase threshold of 10,000 $MTCO_2e$ per year. This emissions level is derived from the reporting requirements of the State's Cap-and-Trade Program (Program), which targets emissions from the largest sources of GHGs and air pollution in the state, for which covered entities include stationary and industrial types of emission sources, as discussed below, that are more applicable to the proposed project type.

CARB adopted the Program in October 2011 and took effect on January 1, 2012. The Program establishes a declining limit on major sources of GHG emissions, and it creates a powerful economic incentive for significant investment in cleaner, more efficient technologies. The Program applies to entities and activities that collectively comprise approximately 80 percent of the state's GHG emissions. CARB creates allowances equal to the total amount of permissible emissions (i.e., the "cap" or "budget"). One allowance equals one metric ton of carbon dioxide equivalent emissions (using the 100-year global warming potentials). Fewer allowances are created each year; thus, the annual caps decline over time. An increasing annual auction reserve (or floor) price for allowances that increases each year and the reduction in annual allowance budgets creates a steady and sustained carbon price signal to prompt action to reduce GHG emissions. All facilities covered by the Program are still subject to applicable local air quality permit limits for criteria and toxic air pollutants. The Program currently covers in-state electricity generators, including electricity imported into California; large industrial sources of GHG emissions; transportation fuel suppliers; and suppliers of natural gas and propane combusted at commercial, residential, and small industrial facilities, and other sources not directly covered by the Program.

Under the Program, covered entities are not subject to individual or facility-specific GHG emissions reduction requirements. Instead, all companies covered by the Program are required to surrender allowances in an amount equal to their total covered GHG emissions during each compliance period. Covered entities can also meet a limited portion of their compliance obligation (4 percent for emissions during 2021-2025, and 6 percent for emissions after 2025) by surrendering approved offset credits issued under CARB-approved compliance offset protocols.

The three-pronged approach of incentives, regulations, and carbon pricing in the form of a Cap-and-Trade Program has been included in every Scoping Plan since the first one was adopted in 2008. The 2022 Scoping Plan emphasizes the need to maintain a diverse portfolio of policies to combat climate change, including the ongoing implementation of the Program to achieve the GHG emissions reduction goals outlined in AB 1279.

CARB regularly adopts amendments to the Program that include a decline on the cap for emissions, resulting in increasingly stringent permissible emissions limits for stationary sources. Thus, the Program continues to be instrumental in assisting the State in meeting its long-term GHG emissions reduction goals, as set forth by AB 1279, as identified in the 2022 Scoping Plan. Therefore, SMAQMD's stationary source bright-line threshold can be applied to the proposed project to demonstrate consistency with the 2022 Scoping Plan. The proposed project is not a land use development project and is instead assessed as a stationary source of GHG emissions. Therefore, the proposed project's emissions would be compared to SMAQMD's threshold of significance of 10,000 $MTCO_2e$ per year. Notably, this approach was also used in the 2016 Final EIR. It was endorsed by SMAQMD staff following review of the description for the approved project, which is highly similar to the proposed project in terms of expected activity types and intensities.

Based on reasons above, the proposed project would have a significant impact related to GHG emissions or climate change if it would:

- generate GHG emissions that would exceed 10,000 $MTCO_2e$ per year, or
- conflict with the GHG reduction goals of the 2022 Scoping Plan.

Issues Not Discussed Further

All issues identified in the significance criteria are addressed in the following analysis.

Methodology

The following analysis is based on the findings of the *Air Quality, Health Risk, and Greenhouse Gas Assessment for the Aspen Quarry VIII and IX Use Permit Amendment Project* (Ascent 2025) prepared for the proposed project (refer to Appendix B1). Maximum yearly GHG emissions were calculated for the reasonable worst-case conditions based on a combination of methods, including the use of emission factors from EPA, emission rates for equipment from CARB's OFFROAD, and emission rates for worker vehicles from CARB's EMFAC 2021 model (refer to Appendix B1). In determining the level of significance, the analysis assumes that the proposed project would comply with all applicable federal, state, and local laws, ordinances, and regulations.

Specific model assumptions, model inputs, and model outputs can be found in Appendix B1.

IMPACTS AND ANALYSIS

IMPACT GG-1: GENERATE GHG EMISSIONS, EITHER DIRECTLY OR INDIRECTLY, THAT MAY HAVE A SIGNIFICANT IMPACT ON THE ENVIRONMENT

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would result in the emission of approximately 6,321 $MTCO_2e$ per year, which would be below SMAQMD's 10,000 $MTCO_2e$ per year screening threshold for stationary sources (Impact Evaluation GG-1). Therefore, the 2016 Final EIR determined impacts would be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would expand surface mining operations over 20 years, extending from 2026 to 2045, with final reclamation of the project site to be completed over two years, ending in 2047. The proposed mining areas (i.e., Aspen VIII and IX Expansion Areas) are approximately 245.6 acres. Surface mining and reclamation operations primarily involve the use of heavy-duty construction equipment (e.g., offroad). Therefore, due to the nature of the proposed project, there is no distinction between construction and operational phases/activities. Thus, this discussion analyzes project-related GHG emissions impacts rather than by distinct phases.

The proposed project would result in GHG emissions from the use of heavy-duty equipment (e.g., graders, crawler tractors, dozers, excavators, off-highway trucks, and haul trucks). The proposed project would not result in new employee vehicle commute or on-road truck trips, as expanded mining operations would use existing employees and no materials would be hauled on public roadways. The proposed project would involve extending the existing conveyor belt system to transfer mined aggregate material from the mine site to the existing Perkins Plant, rather than transporting it by truck. This would prevent project-generated pollutant emissions associated with haul trucks.

Table 12-2 provides a summary of the estimated annual GHG emissions that would result from the implementation of the proposed project.

Table 12-2: Summary of Proposed Project Annual Emissions of GHGs

Emissions Source	$MTCO_2e$/year
Off-road equipment	2,187
On-road travel (worker trips)	19
Annual total emissions	2,2051
SMAQMD Threshold	10,000
Exceed Threshold?	No

Notes: $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.

1. Total may not sum exactly due to rounding.

Source: Modeling conducted by Ascent in 2025.

Implementation of the proposed project would result in the emission of approximately 2,205 $MTCO_2e$ per year, which is below SMAQMD's 10,000 $MTCO_2e$ per year screening threshold for stationary sources (Table 12-2). Final reclamation activities would contribute minor levels of GHG emissions; however, these activities would use the same equipment as the surface mining operation and not be expected to cause an increase in the annual emissions above those presented in Table 12-2. Therefore, the implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project, as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT GG-2: CONFLICT WITH ANY APPLICABLE PLAN, POLICY, OR REGULATION OF AN AGENCY ADOPTED FOR THE PURPOSE OF REDUCING THE EMISSIONS OF GHG

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include an analysis of the approved project's potential to conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions and; therefore, did not provide an impact determination relevant to this issue area for the approved project. While the 2016 Final EIR did not directly evaluate impacts associated with conflicts with applicable GHG reduction plans, the 2016 Final EIR determined that annual GHG emissions for the approved project would be below SMAQMD's 10,000 $MTCO_2e$ per year threshold for stationary sources under Impact Evaluation GG-1.

As discussed above, SMAQMD established a bright-line threshold of significance for assessing impacts from stationary sources of pollution in Sacramento County of 10,000 $MTCO_2e$ per year. This threshold was developed in consideration of the State's Cap-and-Trade Program, which comprises the threshold for which stationary sources must start reporting emissions to CARB. The Program is essential to meeting long-term GHG reduction goals as set forth by AB 1279, which is reflected in the 2022 Scoping Plan. At the time of the writing of the 2016 Final EIR, AB 32, which was the most ambitious climate change legislation at the time, required that emissions be reduced to 1990 levels by the year 2020, which was estimated in the AB 32 Scoping Plan to be 15 percent below existing (2005) emissions. As the only regulatory document adopted by the State that provided the framework for achieving the goals of AB 32, the SMAQMD stationary source threshold used in the 2016 Final EIR was relative to the statewide GHG reduction goals outlined in the AB 32 Scoping Plan. SMAQMD's *Justification for Greenhouse Gas Emissions Thresholds of Significance* presents the following to support the nexus between the State's scoping plans and the Cap-and-Trade Program (SMAQMD 2014):

> *The justification for recommending a stationary source threshold (10,000 metric tons) that is almost ten times higher than the land use development threshold (1,100 metric tons) is threefold.*
>
> > *1. The on-road transportation and residential energy use sectors dominate the Sacramento County GHG inventory, contributing 62 percent. GHG emissions from the industrial sector are not dominant, only a portion of the 18 percent commercial and industrial energy use sector are attributed to permitted stationary sources.*
> >
> > *2. As noted above, it is important economically to have a consistent threshold for stationary sources throughout California.*
> >
> > *3. The 10,000 metric ton level is consistent with CARB's mandatory reporting level for stationary sources emitting GHG.*

Therefore, because GHG emissions associated with implementation of the approved project were determined to be less than the stationary source threshold of 10,000 $MTCO_2e$ per year, the approved project was consistent with the AB 32 Scoping Plan in place at the time.

Proposed Project Impact Evaluation

State or local GHG reduction plans applicable to the proposed project include the State's 2022 Scoping Plan and the Cap-and-Trade Program. Note that the proposed project would not be subject to the Cap-and-Trade Program (i.e., not designated as a covered entity); however, as discussed above, it is being used as a proxy for determining significance. In addition, as discussed above under "Significance Criteria", the County's 2024 CAP has been developed primarily to address GHG emissions resulting from the addition of square footage and parking and the generation of vehicle trips (i.e., physical development and transportation-related sources of GHGs). As the proposed project is a surface mining operation that would not involve additional building square footage and would not generate haul truck trips or additional employee vehicle trips, the reduction strategies in the 2024 CAP are not applicable to this project type. However, while the reduction strategies of the County's 2024 CAP are not applicable to the proposed project, implementation of the proposed project would not conflict with the goals of the County's 2024 CAP.

2022 Scoping Plan

Appendix D of the 2022 Scoping Plan specifies that lead agencies may analyze the GHG emissions impact of proposed projects by employing a threshold of significance recommended by the applicable air district or other lead agencies (CARB 2022). As stated in State CEQA Guidelines section 15064.7(b), "a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence." As stated above, SMAQMD numerical thresholds were used to evaluate impacts related to GHG emissions. SMAQMD has adopted a bright-line threshold of significance for assessing impacts from stationary sources of pollution in Sacramento County of 10,000 $MTCO_2e$ per year. This emissions

level is derived from the reporting requirements of the State's Cap-and-Trade Program, which targets emissions from the largest sources of GHG emissions and air pollution in the state. According to the most current SMAQMD guidance regarding stationary sources of GHG emissions (SMAQMD 2021):

> *Lead agencies shall compare the stationary source project's annual direct operational GHG emissions to the District's 10,000 metric ton per year threshold of significance for stationary sources. If the project's annual direct GHG emissions will exceed the District's threshold of significance, then the project may have a cumulatively considerable contribution to a significant cumulative environmental impact. Stationary source GHG emissions shall also be evaluated in the context of the applicable regulatory environment that is in place under the mandates of AB 32, SB 32, ARB's Climate Change Scoping Plan and Executive Order B-30-15.*

As demonstrated above under Impact GG-1, implementation of the proposed project would result in the emission of approximately 2,205 $MTCO_2e$ per year, which is below SMAQMD's 10,000 $MTCO_2e$ per year screening threshold for stationary sources. Therefore, the proposed project would not conflict the 2022 Scoping Plan.

CALIFORNIA CAP-AND-TRADE PROGRAM

The State's Cap-and-Trade Program is essential to the state in meeting long-term GHG emissions reduction goals as set forth by AB 1279 and identified in the 2022 Scoping Plan. The 2022 Scoping Plan states that "CARB has committed to review the Cap-and-Trade program [to] determine what potential legislative or regulatory amendments could be necessary to ensure the program continues to deliver GHG reductions needed to achieve the statutory climate goals" (CARB 2022). In this way, the 2022 Scoping Plan identifies that dynamic GHG emissions reductions achieved by the Cap-and-Trade Program (as identified through CARB's assessment of the program) are critical to meeting the state's accelerated 2030 reduction target and ultimately the goal of statewide carbon neutrality by 2045 (CARB 2022).

As discussed above, SMAQMD's bright-line threshold of significance for assessing impacts from stationary sources of pollution in Sacramento County was developed in consideration of the State's Cap-and-Trade Program, which comprises the threshold for which stationary sources must start reporting emissions to CARB. As the proposed project is estimated to result in annual GHG emissions below this threshold (i.e., 10,000 $MTCO_2e$ per year), implementation of the proposed project would not conflict with the State's Cap-and-Trade Program.

CONCLUSION

As demonstrated above, implementation of the proposed project would not conflict with any applicable GHG reduction plan, as the proposed project would result in GHG emissions below SMAQMD's bright-line threshold of 10,000 $MTCO_2e$ per year for stationary sources. Impacts would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

13 HAZARDS AND HAZARDOUS MATERIALS

INTRODUCTION

This chapter evaluates the potential impacts related to hazards and hazardous materials resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (project). It describes the applicable federal, state, and local regulations and policies related to hazards and hazardous materials; discusses the existing setting of hazards and known hazardous materials on and/or surrounding the project site; and assesses the potential for the proposed project to result in impacts related to creating a significant hazard to the public and/or the environment.

The term "hazardous substances," as used herein, refers to both hazardous materials and hazardous wastes. Sacramento County uses the definition of "hazardous materials" from the California Health and Safety Code, Division 20, Chapter 6.95, Section 25501, which states:

> "Hazardous material" means a material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous wastes, and any material that a handler or the unified program agency (administering agency) has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

This definition is not limited to just those chemicals with long-term detrimental effects. It also includes materials that present a hazard because of their physical nature (i.e., those that are explosive, corrosive, or flammable). In addition to hazardous materials, this chapter also addresses emergency response plans and wildland fire hazards. Airport land use consistency, including potential safety hazards, is addressed in Chapter 7, "Airport Compatibility," of this SEIR.

No comments regarding hazards and hazardous materials were received in response to the Notice of Preparation (NOP). The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, "Project Description," the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over

Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

HAZARDOUS MATERIALS

Typical sources of hazardous materials include known contaminated properties; businesses that handle (use and/or collect) contaminants; household contaminants; landfills; lead-based paint; asbestos (in buildings predating 1970); and pesticides, fertilizers, and petrochemicals associated with agriculture. These sources can contaminate soil, ground and/or surface water, and buildings.

The project site is located in the vicinity of areas historically used for mining, agriculture, and rural home sites. In addition, there are industrial areas within the vicinity of the project site, which include warehouses, landscape supply yards, construction materials processing plants, and truck and equipment yards. As such, there is the potential for hazardous materials and known hazardous materials sites to be present within the vicinity of the project site, as discussed in greater detail below.

KNOWN SMALL CONTAMINATION SITES

There are many types of businesses that handle hazardous wastes or materials on a small-scale, such as automotive businesses, gas stations, building supplies (concrete, painting, lumber, etc.), and dry cleaners. For many of these businesses, the contamination source is an above-ground or underground storage tank that has developed a leak. The contaminants may be contained solely within the surrounding soils, or they may pass into groundwater and cause a migrating contamination plume.

According to the California Department of Toxic Substances Control (DTSC) EnviroStor and the State Water Resources Control Board (SWRCB) GeoTracker databases, the agencies tasked with tracking the state's hazardous material and waste sites, the project site is not identified as a small known contamination site (DTSC 2025a; SWRCB 2024).

The closest known small contamination site to the project site is the Village Nurseries site, which is located approximately 0.4 miles west of the proposed Aspen IX Expansion Area. The Village Nurseries site was under investigation for nitrate as a potential contaminant of concern but has been designated with an open-inactive status as of March 25, 1995 (SWRCB 2024). According to the GeoTracker database, the SWRCB periodically coordinates with the owners of the site to obtain groundwater samples to monitor nitrate levels at the site, with the last sample requested in 2022 (SWRCB 2024).

KNOWN LARGE CONTAMINATED SITES

In Sacramento County, known large contamination sites include landfills, military bases, and other large hazardous material sites. According to the EnviroStor and GeoTracker databases, the project site is not identified as a known large contamination site (DTSC 2025a; SWRCB 2024). The nearest landfill site, L and D Landfill, is located

approximately 3.1 miles to the west. The nearest Superfund site listed on the US Environmental Protection Agency (EPA) National Priorities List is the former Mather Air Force Base (Mather AFB), located approximately 3.5 miles to the northeast (EPA 2024).

Lead, Asbestos, and Other Hazardous Materials in Buildings

Lead and lead compounds have historically been used in many products found in everyday products, for example: paint, ceramics, pipes, plumbing materials, gasoline, batteries, ammunition and cosmetics. In 1978, the Federal government banned the use of lead-based paint in housing. Asbestos is a naturally occurring, fibrous silicate mineral that was commonly used as an acoustic insulator and in thermal insulation (fireproofing and other building materials) prior to 1989, when it was banned by EPA due to the health issues it can cause if the fibers are inhaled. Since there are no existing structures located within the project site, there is no potential for asbestos or lead-based paint associated with structures to be present on site.

In addition to being used in building materials, asbestos can also be found occurring naturally in portions of eastern Sacramento County, within Folsom, south of Folsom, and Rancho Murieta. As discussed in Chapter 11, “Geology, Soils, and Mineral Resources,” asbestos does not occur naturally within the project site or the vicinity.

Transport of Hazardous Materials

Hazardous materials, hazardous wastes, and petroleum products are a subset of the goods routinely shipped along the transportation corridors in the vicinity of the project site. In California, unless specifically exempted, it is unlawful for any person to transport hazardous waste unless the person holds a valid registration issued by DTSC. Three agencies maintain searchable databases that track hazardous material releases in reportable quantities:

1. The EPA maintains the Hazardous Materials Incident Report System that contains data on hazardous material spill incidents reported to the US Department of Transportation (DOT);

2. The California Office of Emergency Services (OES) maintains the California Hazardous Materials Incident Report System that contains information on reported hazardous material accidental releases or spills; and

3. The SWRCB’s Site Cleanup Program maintains information on reported hazardous material accidental releases or spills.

DOT also provides grants to local agencies for preparation and training for hazardous materials incidents through its Hazardous Materials Emergency Preparedness Program administered by OES.

Sensitive Receptors

No hospitals, daycare centers, schools, or senior care facilities are located within the vicinity of the project site. The nearest sensitive receptor is Sierra-Enterprise Elementary School, which is located approximately two miles to the northwest of the project site.

Wildland Fire Hazards

While all of California is subject to some degree of wildfire hazard, there are specific features that make certain areas more hazardous. The California Department of Forestry and Fire Protection (CAL FIRE) is required by law to map areas of significant fire hazards based on fuels, terrain, weather, and other relevant factors (Public Resources Code [PRC] 4201-4204 and Government Code 51175-89). When development spreads into less densely populated, often hilly areas, it increases the number of people living in areas that are prone to wildfire.

The project site is within a local responsibility area (LRA) that CAL FIRE has identified as a moderate fire hazard severity zone (FHSZ) (CAL FIRE 2025).

Regulatory Setting

Federal

EPA has primary responsibility for enforcing and implementing federal laws and regulations pertaining to hazardous materials. Applicable regulations are contained mainly in Titles 29, 40, and 49 of the Code of Federal Regulations (CFR). Hazardous materials, as defined in the CFR, are listed in 49 CFR 172.101. Management of hazardous materials is governed by the laws summarized below. These laws and associated regulations include specific requirements for facilities that generate, use, store, treat, and/or dispose of hazardous materials.

Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (RCRA) is the principal federal legislation regulating hazardous waste. Under the RCRA, EPA regulates the generation, transportation, treatment, storage, and disposal of hazardous substances. RCRA imposes reporting, permitting, and operational control requirements on businesses or individuals that generate, treat, store, or dispose of hazardous materials or hazardous waste. RCRA is implemented by Title 40 of the Code of Federal Regulations. The 1984 amendments to RCRA involve stringent monitoring of landfills and underground storage tanks for hazardous substances. EPA has delegated authority for many RCRA requirements to DTSC.

Comprehensive Environmental Response, Compensation, and Liability Act

In response to the need to clean up hazardous waste sites created before implementation of RCRA, Congress enacted the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in 1980. CERCLA, also called

the Superfund Act, provided broad federal authority and created a trust fund for addressing releases and threatened releases of hazardous substances that could endanger public health or the environment.

EPA is responsible for compiling the National Priorities List for known or threatened release sites of hazardous substances, pollutants, or contaminants and provides oversight of Superfund investigation/remediation projects, evaluates remediation technologies, and develops hazardous materials disposal restrictions and treatment standards.

Superfund Amendments and Reauthorization Act

The risk of exposure to hazardous waste as a result of RCRA and CERCLA was addressed in the Superfund Amendments and Reauthorization Act (SARA) of 1986. As a result of SARA, the federal Occupational Safety and Health Administration (OSHA) published hazardous waste cleanup regulations in 29 CFR 1910.120.

Toxic Substances Control Act

The Toxic Substances Control Act provides EPA with authority to require reporting, recordkeeping and testing, and restrictions related to chemical substances and/or mixtures. The Toxic Substances Control Act addresses the production, import, use, and disposal of specific chemicals including polychlorinated biphenyls (PCBs), asbestos, radon, and lead-based paint.

Clean Air Act

Regulations under the Clean Air Act (42 USC 7401 et seq., as amended) are designed to prevent accidental releases of hazardous materials. The regulations require facilities that store more than a threshold quantity of regulated substances to develop a risk management plan that includes hazard assessments and response programs to prevent accidental releases of listed chemicals.

Occupational Safety and Health Administration Worker Safety Requirements

OSHA is responsible for ensuring worker safety. OSHA sets federal standards for implementation of workplace training, exposure limits, and safety procedures for handling hazardous substances and addressing other potential industrial hazards. OSHA also establishes criteria by which each state can implement its own health and safety program. The Hazard Communication Standard (CFR Title 29, Part 1910) requires that workers be informed of the hazards associated with the materials they handle. Workers must be trained in safe handling of hazardous materials, use of emergency response equipment, and building emergency response plans and procedures. Containers must be labeled appropriately, and material safety data sheets must be available in the workplace.

Hazardous Materials Transportation Act

DOT has developed regulations in Titles 10 and 49 of the CFR pertaining to the transport of hazardous substances and hazardous wastes. The Hazardous Materials

Transportation Act is administered by the Research and Special Programs Administration of DOT. The act provides DOT with a broad mandate to regulate the transport of hazardous materials, with the purpose of adequately protecting the nation against the risk to life and property that is inherent in the commercial transportation of hazardous materials. DOT regulations that govern the transportation of hazardous materials are applicable to any person who transports, ships, causes to be transported or shipped, or who is involved in any way with the manufacture or testing of hazardous materials packaging or containers.

Federal Insecticide, Fungicide, and Rodenticide Act

Pesticides are regulated under the Federal Insecticide, Fungicide, and Rodenticide Act by EPA. This includes labeling and registration of pesticides as to how they may be used. EPA delegates pesticide enforcement activities in California to the California Department of Pesticide Regulation, under Title 3 of the California Code of Regulations and the California Food and Agriculture Code. The California Department of Pesticide Regulation registers pesticides for use in California, and licenses pesticide applicators and pilots, advisors, dealers, brokers, and businesses.

State

California Hazardous Materials Release Response Plans and Inventory Law

This law requires preparation of hazardous materials business plans and disclosure of hazardous materials inventories. Such plans must include an inventory of hazardous materials handled, as well as facility floor plans showing where hazardous materials are stored, an emergency response plan, and emergency response procedures that provide for employee training (California Health and Safety Code, Division 20, Chapter 6.95, Article 1). The business plan program is administered by the California Emergency Management Agency.

Occupational Safety and Health Administration Worker Safety Requirements

The California Occupational Safety and Health Administration (Cal/OSHA) regulations for the use of hazardous materials in the workplace (CCR Title 8) require safety training, available safety equipment, accident and illness prevention programs, hazardous-substance exposure warnings, and preparation of emergency action and fire prevention plans. Cal/OSHA enforces regulations on hazard communication programs and mandates specific training and information requirements. These requirements include procedures for identifying and labeling hazardous substances, providing hazard information about hazardous substances and their handling, and preparing health and safety plans to protect workers and employees at hazardous waste sites. Employers must make material safety data sheets available to employees and document employee information and training programs.

California Accidental Release Prevention Program

The goal of the California Accidental Release Prevention Program (CCR Title 19, Division 2, Chapter 4.5) is to reduce the likelihood and severity of consequences of any releases of extremely hazardous materials. Any business that handles regulated substances (i.e., chemicals that pose a major threat to public health and safety or the environment because they are highly toxic, flammable, or explosive, including ammonia, chlorine gas, hydrogen, nitric acid, and propane) must prepare a risk management plan. The risk management plan is a detailed engineering analysis of the potential accident factors present at a business and the measures that can be implemented to reduce this accident potential. The plan must provide safety information, hazard data, operating procedures, and training and maintenance requirements. The list of regulated substances is found in Article 8, Section 2770.5 of the program regulations.

Emergency Response to Hazardous Materials Incidents

California has developed an emergency response plan to coordinate emergency services provided by federal, State, and local governments and private agencies. Response to hazardous material incidents is one part of this plan. The plan is managed by the California Emergency Management Agency, which coordinates the responses of other agencies, including the California Environmental Protection Agency (Cal/EPA), the California Highway Patrol, the California Department of Fish and Wildlife, and regional water quality control boards.

California Government Code Section 65962.5 (Cortese List)

The provisions of California Government Code Section 65962.5 are commonly referred to as the “Cortese List” (after the legislator who authored the law). The Cortese List is a planning document used by State and local agencies to comply with CEQA requirements in providing information about the location of hazardous materials release sites. Section 65962.5 requires Cal/EPA to develop an updated Cortese List at least annually. DTSC is responsible for a portion of the information contained in the Cortese List. Other State and local government agencies in California, such as SWRCB, must provide additional information. The project site is not listed on the Cortese list and there are no sites on the Cortese list in the vicinity of the project site (DTSC 2025b).

California Fire Code

The California Fire Code (CFC) is Chapter 9 of CCR Title 24. It is the primary means for authorizing and enforcing procedures and mechanisms to ensure the safe handling and storage of any substance that may pose a threat to public health and safety. CFC regulates the use, handling, and storage requirements for hazardous materials at fixed facilities. The CFC and the California Building Code use a hazard classification system to determine what protective measures are required to protect fire and life safety. These measures may include construction standards, separations from property lines, and specialized equipment. To ensure that these safety measures are met, the CFC employs a permit system based on hazard classification. The CFC is updated every three years, where the most recent version is the 2022 CFC.

CALIFORNIA FIRE SAFETY REQUIREMENTS

Several sections of the California PRC also include fire safety requirements that restrict the use of equipment that may produce a spark, flame, or fire; require the use of spark arrestors on construction equipment that use an internal combustion engine; specify requirements for the safe use of gasoline-powered tools in fire hazard areas; and specify fire suppression equipment that must be provided on site for various types of work in fire-prone areas. These requirements include the following:

- PRC Section 4442 – Earthmoving and portable equipment with internal combustion engines shall be equipped with a spark arrestor to reduce the potential for igniting a wildland fire.
- PRC Section 4428 – Appropriate fire suppression equipment shall be maintained during the highest fire danger period – from April 1 to December 1.
- PRC Section 4427 – On days when a burning permit is required, flammable materials shall be removed to a distance of 10 feet from any equipment that could produce a spark, fire, or flame, and the construction contractor shall maintain the appropriate fire suppression equipment.
- PRC Section 4431 – On days when a burning permit is required, portable tools powered by gasoline-fueled internal combustion engines shall not be used within 25 feet of any flammable materials.

LOCAL

SACRAMENTO COUNTY EMERGENCY MANAGEMENT DEPARTMENT

The Hazardous Materials Division of Sacramento County Environmental Management Department (EMD) is the designated Certified Unified Program Agency (CUPA) for Sacramento County. The Sacramento County EMD has a 24-hour hazardous materials incident response team and responds to incidents involving chemical releases, as well as any other hazardous materials situations. As the CUPA, the Hazardous Materials Division is responsible for implementing the following hazardous materials and hazardous waste program elements for Sacramento County:

- Aboveground Petroleum Storage Act,
- California Accidental Release Prevention Program,
- hazardous material release response plans and inventories,
- hazardous waste generation, including on-site treatment under tiered permitting,
- spill prevention control and countermeasure plan,
- underground storage tanks, and
- Uniform Fire Code Hazardous Materials Management Plans and Inventories.

Sacramento County Office of Emergency Services

The Sacramento County Office of Emergency Services (SacOES) has the primary responsibility for preparedness and response activities and addresses disasters and emergency situations within Sacramento County. SacOES is responsible for alerting and notifying appropriate agencies when disaster strikes; coordinating all agencies that respond; ensuring resources are available and mobilized in times of disaster; developing plans and procedures in response to and recovery from disasters; and developing and providing preparedness materials for the public.

Sacramento County Local Hazard Mitigation Plan

The *Sacramento County Multi-jurisdictional Local Hazard Mitigation Plan Update* (Sacramento County 2021a), as amended, includes a risk assessment of existing hazards such as severe weather, dam failure, flooding, earthquakes, wildfire, drought, health hazards, landslides, and volcanoes, as well as includes a mitigation strategy. The plan includes countywide recommended action items to reduce the economic effects and the loss of life and property.

Sacramento County Emergency Operations and Evacuation Plans

Emergency plans and associated annexes are developed and maintained by SacOES. The Sacramento County Emergency Operations Plan (EOP) addresses extraordinary emergency situations associated with human-caused disasters, natural disasters, technological incidents and/or emergencies, and national security incidents and/or emergencies affecting or within the county. The EOP does not apply to normal day-to-day events, or the procedures used to respond to such emergencies. Instead, it focuses on operational concepts that would be implemented in large-scale disasters, which can have major threats to life, property, and the environment, and that require an uncommon emergency response (Sacramento County 2022).

The Sacramento County Operational Area Evacuation Functional Annex (Evacuation Annex) was developed as a functional support document to the Sacramento County EOP (Sacramento County 2021b). The purpose of the Evacuation Annex is to document the agreed upon strategy for the County's response to emergencies that involve the evacuation of persons from an impacted area to a safe area. This involves coordination and support for the safe and effective evacuation of the general population, and for those who need additional support to evacuate. Focus areas within this evacuation plan include public alert and warning, transportation, and care and shelter.

Primary evacuation routes are established for each of the seven County Sheriff Districts. These include major interstates, highways, and prime arterials within Sacramento County, including Jackson Road (State Route 16). Local jurisdictions work with the County, and especially the Operation's Section, Law Enforcement Branch and the Evacuation Movement Unit, to identify and update evacuation routes and evacuation transfer points. The primary evacuation routes are usually major interstates and other highways, and major roadways within and out of the county, unless otherwise determined by the Sacramento County Department of Transportation (SacDOT). During

an evacuation, SacDOT traffic engineers calculate traffic flow capacity and decide which of the available traffic routes should be used to move people in the correct directions.

Sacramento County 2030 General Plan

The following policies of the 2030 General Plan would apply to the project:

- **Policy HM-4.** The handling, storage, and transport of hazardous materials shall be conducted in a manner so as not to compromise public health and safety standards.
- **Policy SA-29**. The County and fire districts will work together to regulate hazardous materials to mitigate emergency responses

Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the project because the project site is located within its plan area.

Vineyard Community Plan

The Vineyard Community Plan does not contain policies related to hazardous materials that would apply to the proposed project.

Significance Criteria and Methodology

Significance Criteria

Based on Appendix G of the State CEQA Guidelines, impacts to hazards and hazardous materials would be significant if implementation of the project would:

- create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials;
- create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment;
- emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school;
- be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment;
- for a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area;

- impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan; or
- expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires.

Issues not Discussed Further

Emit Hazardous Emissions or Handle Hazardous or Acutely Hazardous Materials, Substances, or Waste within 0.25 Mile of an Existing or Proposed School

The 2016 Final EIR noted that the project site is not located within 0.25 miles of an existing or proposed school and, therefore, determined that this issue did not warrant detailed analysis as no impact would occur (Significance Criteria HM-3).

The existing Mining Use Permit and Reclamation Plan allows for surface mining on approximately 353 acres of the 683-acre property, and the proposed project would amend the existing entitlement to expand the existing mining footprint by 245.64 acres. Therefore, the proposed project would still be located adjacent to the approved project site that was evaluated in the 2016 Final EIR. Since the certification of the 2016 Final EIR, no new schools have been constructed or proposed within 0.25 miles of the project site and, thus, the project site is not located within 0.25 miles of an existing or proposed school. The closest school, Sierra-Enterprise Elementary School, is approximately two miles to the northwest. Therefore, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

Be Located on a Site which is Included on a List of Hazardous Materials Sites Compiled Pursuant to Government Code Section 65962.5 and, as a Result, Would Create a Significant Hazard to the Public or the Environment

The 2016 Final EIR noted that the project site is not located on a known hazardous materials site and, therefore, determined that this issue did not warrant detailed analysis as no impact would occur (Significance Criteria HM-4).

As discussed above in the “Regulatory Setting,” the project site is not listed on the Cortese list and there are no sites on the Cortese list in the vicinity of the project site (DTSC 2025b). As discussed above in the “Environmental Setting,” the closest known small contamination site, Village Nurseries, is located approximately 0.5 miles west of the proposed Aspen IX Expansion Area. The nearest landfill site, L and D Landfill, is located approximately 3.1 miles to the west of the project site while the closest superfund site, the former Mather AFB, is located approximately 3.5 miles to the northeast. Therefore, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

BE LOCATED WITHIN AN AIRPORT LAND USE PLAN OR WITHIN 2 MILES OF A PUBLIC AIRPORT OR A PUBLIC USE AIRPORT, AND SO RESULT IN A SAFETY HAZARD OR EXCESSIVE NOISE FOR PEOPLE RESIDING OR WORKING IN THE PROJECT AREA

The 2016 Final EIR evaluated the approved project's potential to result in impacts related to airport safety hazards in Chapter 7, "Airport Compatibility," of that document. Please refer to Chapter 7, "Airport Compatibility," of this SEIR for the evaluation of the proposed project's potential to result in impacts related to airport safety hazards. Therefore, this issue is not discussed further in this chapter.

IMPAIR IMPLEMENTATION OF OR PHYSICALLY INTERFERE WITH AN ADOPTED EMERGENCY RESPONSE PLAN OR EMERGENCY EVACUATION PLAN

The 2016 Final EIR determined that because there are no known adopted emergency response or emergency evacuation plans near the project site, implementation of the approved project would not interfere with any known emergency response or excavation plan (Significance Criteria HM-5). Therefore, this issue did not warrant detailed analysis as no impact would occur.

The project site is located in a semi-rural area of the County, where the surrounding area is largely undeveloped. While implementation of the proposed project would extend the duration of surface mining operations and reclamation, the proposed project would not increase employment levels or generate new employee or truck trips on the surrounding roadway system that could potentially interfere with an adopted emergency response or emergency evacuation plan. Furthermore, the project would not alter existing evacuation routes (e.g., Jackson Road), restrict access for emergency response vehicles, or restrict access to critical facilities (e.g., hospitals or fire stations). Therefore, the proposed project would not impair implementation of or physically interfere with the EOP and the Evacuation Annex. As such, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

METHODOLOGY

The impact analysis for hazards and hazardous materials involved review of the existing literature and regulation as summarized in the "Environmental Setting" and "Regulatory Setting" sections above.

IMPACTS AND ANALYSIS

IMPACT HAZ-1: ACCIDENTAL RELEASE DUE TO TRANSPORT, USE, OR DISPOSAL OF HAZARDOUS MATERIALS

The following impact discussion focuses on the transport, use, and disposal of project-related hazardous materials and the potential for accidental releases of those materials.

2016 Final EIR Determination

The 2016 Final EIR analyzed the impacts related to the routine transport, use, or disposal of hazardous materials and the potential for accidental releases of those materials (Impact Evaluation HM-1 and Impact Evaluation HM-2). The 2016 Final EIR included Mitigation Measure HM-1 to ensure that onsite storage of hazardous materials occurs in accordance with all applicable standards. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure HM-1. At the time of preparation of this SEIR, the project applicant is continuing to implement Mitigation Measure HM-1 with operation of the approved project.

Proposed Project Impact Evaluation

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. However, the Amended Mining Use Permit would not result in an increase in the annual rate of aggregate extraction and, therefore, would not result in increased operational intensity. As such, the proposed project would operate in a similar manner as the approved project.

Similar to the approved project, surface mining and reclamation activities under the proposed project would utilize construction equipment and other materials, which would require the use of hazardous materials, such as such as diesel, gasoline fuels, and other hazardous materials (e.g., hydraulic fluid, insulation oil, grease, and lubricants). Since operation of the proposed project would be similar to the approved project, the proposed project would also be subject to the requirements of Adopted 2016 Final EIR Mitigation Measure HM-1, which would ensure the onsite storage of hazardous materials occurs in accordance with all applicable standards. Adherence to the requirements of Adopted 2016 Final EIR Mitigation Measure HM-1 would minimize impacts related to hazardous materials associated with implementation of the proposed project. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant with mitigation incorporated**.

Mitigations Measures

Implement Adopted 2016 Final EIR Mitigation Measure HM-1.

Adopted 2016 Final EIR Mitigation Measure HM-1: Transport, Use, or Disposal of Hazardous Materials Mitigation Measure

A. Non-functional equipment, scrap metal, construction debris, used batteries and tires, and similar objects shall be removed from the site on a regular basis and disposed of at appropriately licensed facilities.

B. Spare equipment such as heavy equipment parts, conveyor belts, tires and other replacement or extra equipment pieces, shall be stored indoors or on impermeable surfaces that do not drain off-site whenever possible to avoid surface water contamination. Spare parts containing petroleum products (i.e., lubricants, hydraulic oil, etc.) shall be stored using best management practices (BMPs) to prevent contamination of soil or storm water runoff.

C. All delivery, maintenance, and repair trucks containing petroleum products or other hazardous materials shall comply with the State of California, Department of Transportation's regulations for transport of hazardous materials. All trucks carrying petroleum products shall be equipped with quick connect couplings and automatic shut-off valves to prevent spills and shall carry appropriate absorbent materials to contain and recover spillage.

IMPACT HAZ-2: EXPOSE PEOPLE OR STRUCTURES TO WILDLAND FIRES

2016 FINAL EIR DETERMINATION

In 2018, the State CEQA Guidelines were comprehensively updated, and wildfire was added to Appendix G as a new issue to be evaluated in CEQA documents. The wildfire analysis requires public agencies to analyze and mitigate wildfire risks associated with proposed projects, especially those in or near State Responsibility Areas or very high fire hazard zones.

Because the 2016 Final EIR was certified prior to wildfire being included as a CEQA issue, the 2016 Final EIR did not evaluate the approved project's potential to result in impacts related to wildfires. However, the 2016 Final EIR did evaluate the potential for the approved project to result in substantial adverse physical impacts associated with the provision of emergency services in Chapter 6, "Public Services," and the potential for the approved project to physically interfere with an adopted emergency response or emergency evacuation plan in Chapter 14, "Hazards and Hazardous Materials." These impacts were determined to be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

The project site is within a LRA that CAL FIRE has identified as a moderate FHSZ (CAL FIRE 2025). Implementation of the proposed project would be an expansion of current surface mining and reclamation activities currently occurring under the approved project. Similar to the approved project, the primary fire hazards from project activities would involve the use of typical construction vehicles and equipment. Heat or sparks from vehicles and equipment, or from other sources such as cigarettes, matches, or generators, could ignite dry vegetation and cause a fire, particularly during drier, warmer conditions. Consistent with PRC requirements (PRC Sections 4442 and 4428), all earthmoving and portable equipment would be equipped with spark arrestors to reduce the potential for igniting a wildland fire during the high fire danger period.

Due to the nature of the proposed project, the proposed project would not add new permanent people to the site as the project does not include a residential component.

While the proposed project would expand the mining footprint by 245.64 acres, the proposed project would not require additional employees beyond the current nine full-time employees who are onsite at any given time under the current approved project and thus, would not increase employment levels above existing employee levels currently operating at the existing Aspen XIII and IV mining areas. Therefore, compliance with existing regulations would ensure that the proposed project would not expose people or structures to wildland fires. As such, the proposed project's contribution to this impact would not be substantial and this impact would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

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14 HYDROLOGY, DRAINAGE, AND WATER QUALITY

INTRODUCTION

This chapter evaluates the potential impacts related to hydrology, drainage, and water quality resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It discusses the existing conditions at the project site as they relate to hydrology, drainage, and water quality; describes the applicable federal, state, and local regulations and policies; and assesses the potential for implementation of the proposed project to adversely affect hydrology, drainage, and water quality. The analysis within this chapter is based on the *Drainage Summary for the Proposed Aspen VIII and IX Expansion Areas* (Drainage Memo) prepared by Cunningham Engineering in March 2024, presented in Appendix G.

Comments related to hydrology, drainage, and water quality received in response to the Notice of Preparation (NOP) include information on regulations and permits related to hydrology, drainage, and water quality applicable to the proposed project. No comments specific to the project site's hydrology, drainage, or water quality were received in response to the NOP. The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, "Project Description," the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

HYDROLOGY AND DRAINAGE

REGIONAL AND LOCAL HYDROLOGY

The project site is located within the Sacramento River Hydrologic Region. The Sacramento River is the largest watershed in the state of California, encompassing approximately 27,000 square miles and carries approximately 30 percent of the state's total surface water (NOAA 2022). The Sacramento River Hydrologic Region extends from Chipps Island in Solano County to Goose Lake in Modoc County and is bounded by the Sierra Nevada to the east, the Coast Ranges to the west, the Cascade Range

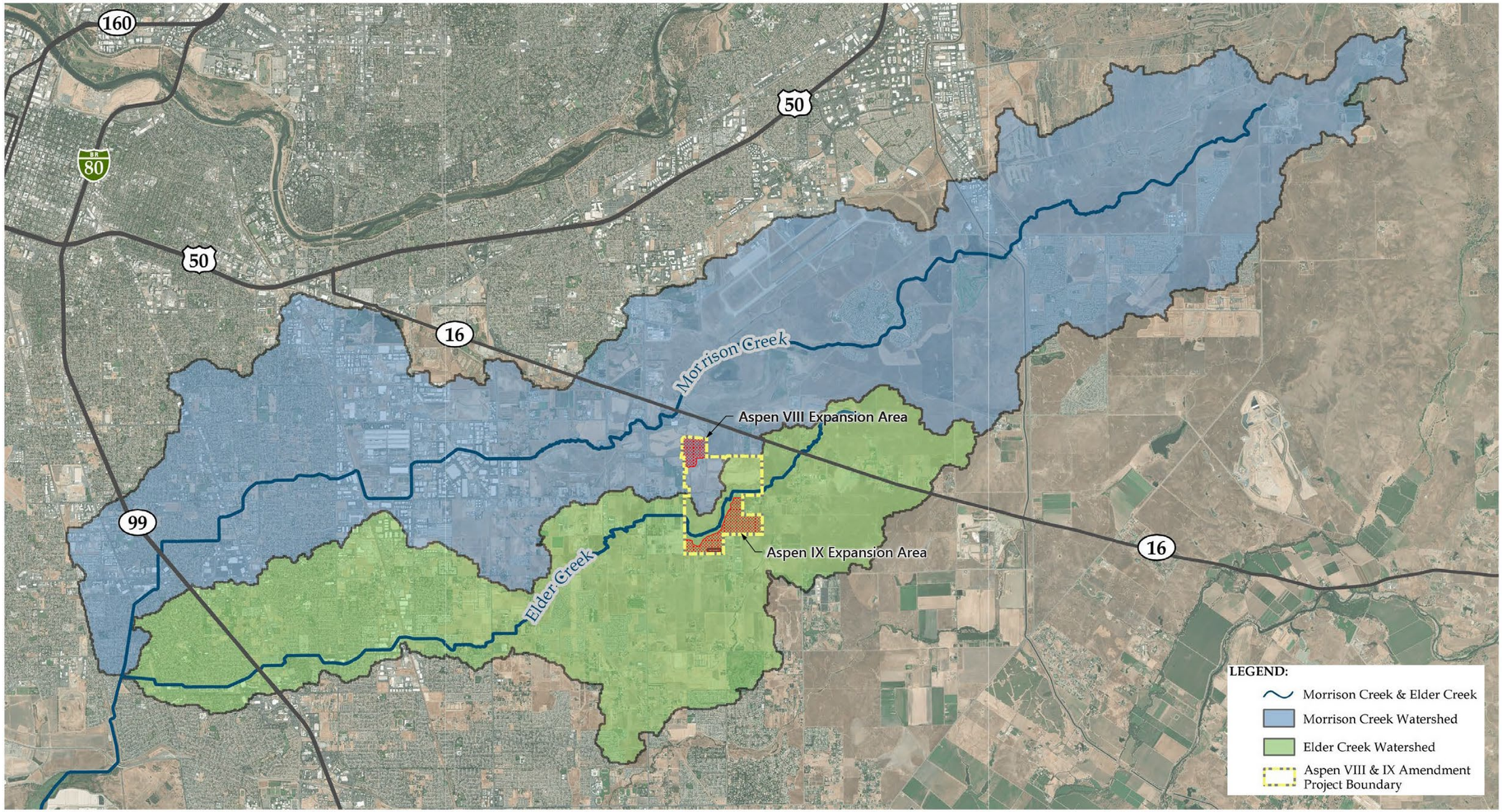
and Trinity Mountains to the north, and the Sacramento-San Joaquin River Delta to the south (DWR 2013). Several principal rivers are located within the Sacramento River Hydrologic Region such as the Feather River, Yuba River, American River, Clear Creek, Battle Creek, Cottonwood Creek, Mill Creek, Deer Creek, and Butte Creek.

The project site is within the Morrison Creek and Elder Creek watersheds, which are both components of the Morrison Creek Stream Group that contribute flows to the Sacramento River (NOAA 2022). The Morrison Creek stream group ultimately drains to the Beach Stone Lakes (BSL) area, which has a history of flooding because of upstream runoff, direct precipitation in the area, and backwater from the Cosumnes and Mokelumne Rivers during periods of flooding and high river stages (NOAA 2022).

PROJECT SITE HYDROLOGY AND DRAINAGE

Two waterways are located in the vicinity of the project site, Morrison Creek and Elder Creek (Figure 14-1). Morrison Creek is located north and northwest of the Aspen VIII Expansion Area and Elder Creek is located immediately north of the Aspen IX Expansion Area. The Elder Creek watershed consists of the main creek fed by three upstream branches; the confluence of these branches is about 1,900 feet northwest of the intersection of Elder Creek Road and Excelsior Road, located in the southeast edge of the plan area. Both Morrison and Elder Creek are characterized as meandering streams with relatively shallow depths (3-6 feet) and narrow streambed (6-20 feet wide), which are bordered by a shallow, broad floodplain (100-2,000 feet wide).

As described in Chapter 2, “Project Description,” the topography of the project site generally slopes gently downward from east to west. While the project site is undeveloped, it is adjacent to the existing Aspen VIII and Aspen IX mining areas, where previous and ongoing surface mining and reclamation activities have modified the drainage in the vicinity. The Drainage Memo (Appendix G) states that the project site would be hydraulically isolated from Elder Creek. The Aspen VIII Expansion Area currently receives offsite stormwater runoff via three existing 24-inch culverts located at the northeast corner, and runoff from the culverts flow across the Aspen VIII Expansion Area and eventually surface flow into the former Aspen V South mining area (Cuningham Engineering 2024). Offsite runoff to the Aspen IX Expansion Area is limited to minor incidental drainage from adjacent properties to the south and east.



Source: Image produced and provided by Teichert Materials in 2024; Adapted by Ascent in 2025.

Figure 14-1: Watersheds

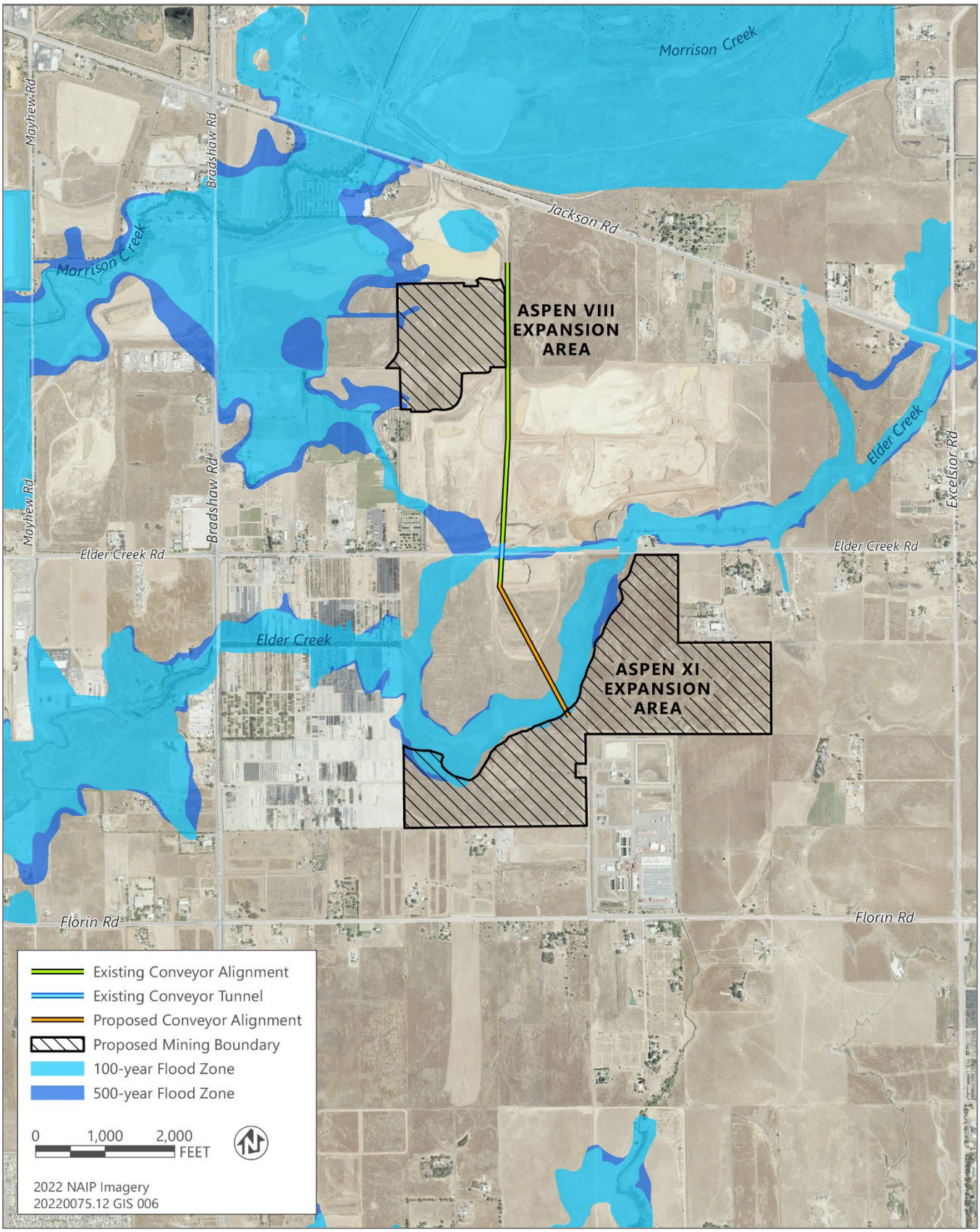
Flood Conditions

The Federal Emergency Management Agency (FEMA) National Flood Hazard Layer maps predict flood conditions. Flood hazards can be defined based on the potential to be affected by a 100-year (1 percent chance of flooding), 200-year (0.5 percent annual chance of flooding), or 500-year flood (0.2 percent annual chance of flooding). Small portions of the project site are within the 100-year flood zone and within the 500-year floodplain (Figure 14-2). The project site is not located within an inundation zone of a dam. The closest dam is the Blodgett Dam located approximately 2 miles to the east (DSOD 2025).

Groundwater Hydrology

The Sacramento River Hydrologic Region contains 88 recognized alluvial groundwater basins and subbasins and underlies approximately 7,800 square miles (DWR 2013). The largest and most heavily used groundwater basins in the hydrologic region are located within the Sacramento Valley Groundwater Basin (DWR 2013). The Sacramento Valley Groundwater Basin is comprised of 21 subbasins, four of which are located within Sacramento County; the North American, South American, Cosumnes, and Solano subbasins. Under the Sustainable Groundwater Management Act (SGMA), the formation of Groundwater Sustainability Agencies (GSAs) is required to provide governance over each groundwater subbasin in the state. Sacramento County accepted GSA responsibility for unmanaged areas in three of the four subbasins.

The project site is located within the Sacramento Valley Groundwater Basin, specifically within the South American Subbasin. The South American Subbasin is a high priority subbasin and is generally bounded by the American River, the Sacramento River, the Cosumnes River, and the eastern Sacramento County line. The South American Subbasin shares boundaries with five adjacent subbasins; the Yolo Subbasin to the northwest, Solano Subbasin to the southwest, North American Subbasin to the north, and the Eastern San Joaquin and Cosumnes Subbasins to the south. Within the South American Subbasin, six local entities formed GSAs; Sacramento Central Groundwater Agency (SCGA), Omochumne-Hartnell Water District (OHWD), Sloughhouse Resource Conservation District (SRCD), North Delta GSAs (NDGSA), Reclamation District 551 (RD 551), and Sacramento County. The GSAs agreed to work together and developed and implemented a Groundwater Sustainability Plan (GSP) for the South American Subbasin. The GSP includes a comprehensive groundwater subbasin description, which was used in the development of a regional surface water and groundwater model that quantifies current water budgets and projects future conditions associated with population growth, land use changes, water conservation, climate change, and consideration of beneficial projects that are planned to occur the next five to ten years. The GSP also includes an assessment of the impacts of predicted future groundwater levels on beneficial users, including groundwater-dependent ecosystems, shallow wells, and interconnected surface water (SASb 2021).



Source: Adapted by Ascent in 2025.

Figure 14-2: FEMA Floodplain

Groundwater levels within the South American Subbasin have fluctuated within each year due to seasonal recharge and use variations; over a year or series of years due to short-term droughts and wet periods; and over decades due to changes in land and water use or longer-term hydrologic conditions. Like most of California, groundwater levels in the South American Subbasin typically decline in summer and fall and increase in winter and spring. The summer and fall are periods of reduced natural recharge from precipitation and streamflow and also are periods of higher groundwater production to meet higher urban and agricultural demands during that period. Conversely, the winter and spring have higher recharge and lower groundwater production. The magnitude of seasonal fluctuation in groundwater levels depends on the connectivity of the aquifer with surface recharge sources, the volume and depth of groundwater production in the area, and aquifer characteristics. Several wells in the eastern portion of the subbasin, specifically wells located generally along Laguna Creek from near Douglas Road to just south of Jackson Highway, show a relatively steady decline in groundwater levels (SASb 2021).

The Central Basin, a locally defined subarea of the Sacramento Groundwater Basin, overlaps with the South American Subbasin. The Central Basin lies south of the American River, east of Interstate (I) 5 and the Sacramento River, and north of the southern boundary of the Omochumne-Hartnell Water District and the Cosumnes and Mokelumne Rivers. The project site resides within the central northern portion of the Central Basin. Groundwater in the Central Basin is generally classified as occurring in a shallow aquifer zone or in an underlying deeper aquifer zone. Within the Central Basin, the shallow aquifer extends approximately 200 to 300 feet below the ground surface and, in general, water quality in this zone is considered to be good with the exception of arsenic detections in a few locations. The shallow aquifer is typically used for private domestic wells requiring no treatment unless high arsenic values are encountered, causing owners to possibly target other water-bearing strata. The deep aquifer is separated from the shallow aquifer by a discontinuous clay layer that serves as a semi-confining layer for the deep aquifer. The base of the potable water portion of the deep aquifer averages approximately 1,400 feet below ground surface. Water in the deep aquifer typically has higher concentrations of total dissolved soils (TDS), iron, and manganese. Groundwater used in the Central Basin is supplied from both the shallow and deeper aquifer systems (SCGA 2006).

Recharge to the local aquifer system occurs along active river and stream channels where extensive sand and gravel deposits exist, particularly along the American, Cosumnes, and Sacramento River channels (SCGA 2006). Additional recharge occurs along the eastern boundary of Sacramento County at the transition point from the consolidated rocks of the Sierra Nevada to the alluvial deposited basin sediments. This typically occurs through fractured granitic rock that makes up the Sierra Nevada foothills (SCGA 2006). This recharge is classified as subsurface recharge along with underground flow into and out of the Central Basin with adjacent groundwater basins. Other sources of recharge within the area include deep percolation from applied surface water, precipitation, and small streams (SCGA 2006). The Central Basin is currently managed by the Sacramento Central Groundwater Authority, which has also adopted the Central Sacramento County Groundwater Management Plan (CSCGMP), consistent with the Sacramento Water Forum objectives that addresses groundwater decline and

quality in the Central Basin. Although the CSCGMP area includes streams that may have historically provided groundwater infiltration, aggregate mining has removed the permeable substrate in portions of the plan area. Where the impermeable clay layer is exposed (for example, in the northeastern portion of the CSCGMP area), groundwater recharge is likely limited.

Water Quality

Surface Water Quality

Surface water quality of the rivers and streams within Sacramento County is affected by natural watershed conditions, such as seasonal weather and temperature patterns; seasonal surface hydrologic runoff and groundwater exchange characteristics of the watershed; runoff or atmospheric deposition of natural chemical or biological matter associated with soil, vegetation, and animal wastes; and long-term climatic patterns (e.g., droughts). The primary sources of potential contamination discharges associated with human-related activities in the county include urban stormwater runoff, agricultural runoff, and municipal wastewater treatment plant discharges.

The US Environmental Protection Agency (EPA) has identified existing water quality impairments in both Morrison Creek and Elder Creek. Morrison Creek and Elder Creek are both listed on the Clean Water Act (CWA) Section 303(d) Impaired Waters List. The 2022 Waterbody Report for Morrison Creek identifies the creek's warm freshwater habitat as impaired with diazinon from urban runoff/storm sewers, and pentachlorophenol and pyrethroids from unknown sources (EPA 2022a). The 2022 Waterbody Report for Elder Creek identifies the creek's warm freshwater habitat as impaired for chlorpyrifos and diazinon from urban runoff/storm sewers and pyrethroids from unknown sources (EPA 2022b).

Groundwater Quality

Groundwater quality can be affected by many things, but the chief controls on the characteristics of groundwater quality are the source and chemical composition of recharge water, properties of the host sediment, and history of discharge or leakage of pollutants (SASb 2021). Groundwater quality in the subbasin is generally good and meets local needs for municipal, domestic, and agricultural uses. Several water quality parameters including nitrate, TDS, arsenic, hexavalent chromium, and per- and polyfluoroalkyl substances (PFASs) have been monitored at numerous wells in the subbasin over time (SASb 2021). As discussed further in Chapter 13, "Hazards and Hazardous Materials," there are known occurrences of groundwater contamination in the vicinity of the project site. However, exceedances of water quality parameters may be caused by localized conditions and generally are not reflective of regionally poor groundwater quality (SASb 2021).

Per the CSCGMP, water quality analysis of the aquifers underlying the Central Basin has shown that groundwater found in the upper aquifer system is of higher quality than that found in the lower aquifer system. This is due to the lower aquifer containing higher concentrations of iron and manganese. The lower aquifer system also has higher

concentrations of TDS, although this aquifer typically meets water quality standards as a potable water source. At depths of approximately 1,400 feet or greater, the TDS concentration exceeds 2,000 milligrams per liter and groundwater is considered non-potable unless treated by reverse osmosis. Water from the upper aquifer generally does not require treatment, other than disinfection for public drinking water systems, unless high arsenic values are encountered (SCGA 2006).

REGULATORY SETTING

FEDERAL

FEDERAL EMERGENCY MANAGEMENT AGENCY

NATIONAL FLOOD INSURANCE ACT

FEMA maintains and updates the National Flood Insurance Program maps, called the Federal Insurance Rate Maps (FIRM), that define areas of federal flood hazard. In Sacramento County, the floodplains are identified based on US Army Corps of Engineers (USACE) studies. Federal Insurance Rate Maps denote the location of the federal 100-year flood area, 500-year flood area, and the Base Flood Elevation. In a 100-year floodplain, there is a 1 percent chance of flooding in a given year, and in a 500-year floodplain, there is a 0.2 percent chance of flooding in a given year. If an area is within a 100-year floodplain, flood insurance is required by most mortgage companies. FEMA is also responsible for the accreditation of levee systems based on certification by USACE.

CLEAN WATER ACT

EPA is the lead federal agency responsible for water quality management. The CWA is the primary federal law that governs and authorizes water quality control activities by EPA, as well as the states. Various elements of the CWA address water quality, as discussed below.

CWA WATER QUALITY CRITERIA/STANDARDS

Pursuant to federal law, EPA has published water quality regulations under Title 40 of the Code of Federal Regulations (CFR). Section 303 of the CWA requires states to adopt water quality standards for all surface waters of the US. As defined by the act, water quality standards consist of designated beneficial uses of the water body in question and criteria that protect the designated uses. Section 304(a) requires the EPA to publish advisory water quality criteria that accurately reflect the latest scientific knowledge on the kind and extent of all effects on health and welfare that may be expected from the presence of pollutants in water. Where multiple uses exist, water quality standards must protect the most sensitive use. As described in the discussion of State regulations below, the State Water Resources Control Board (SWRCB) and its nine regional water quality control boards (RWQCBs) have been designated authority in California to identify beneficial uses and adopt applicable water quality objectives.

CWA SECTION 303(D) IMPAIRED WATERS LIST

Under Section 303(d) of the CWA, states are required to develop lists of water bodies that do not attain water quality objectives after implementation of required levels of treatment by point source dischargers (municipalities and industries). Section 303(d) requires that the state develop a total maximum daily load (TMDL) for each of the listed pollutants. The TMDL is the amount of the pollutant that the water body can receive and still comply with water quality objectives. The TMDL is also a plan to reduce loading of a specific pollutant from various sources to achieve compliance with water quality objectives. In California, implementation of TMDLs is achieved through water quality control plans, known as Basin Plans, of the RWQCBs.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

The National Pollutant Discharge Elimination System (NPDES) permit program was established in the CWA to regulate municipal and industrial discharges to surface waters of the United States. NPDES permit regulations have been established for broad categories of discharges including point source waste discharges and nonpoint source stormwater runoff. Each NPDES permit identifies limits on allowable concentrations and mass emissions of pollutants contained in the discharge. Sections 401 and 402 of the CWA contain general requirements regarding NPDES permits.

"Nonpoint source" pollution originates over a wide area rather than from a definable point. Nonpoint source pollution often enters receiving water in the form of surface runoff and is not conveyed by way of pipelines or discrete conveyances. Two types of nonpoint source discharges are controlled by the NPDES program: discharges caused by general construction activities and the general quality of stormwater in municipal stormwater systems. The goal of the NPDES nonpoint source regulations is to improve the quality of stormwater discharged to receiving water to the maximum extent practicable. The RWQCBs in California are responsible for implementing the NPDES permit system (see the "State" section, below).

STATE

CALIFORNIA PORTER-COLOGNE ACT

California's primary statute governing water quality and water pollution issues with respect to both surface waters and groundwater is the Porter-Cologne Water Quality Control Act of 1970 (Porter-Cologne Act). The Porter-Cologne Act grants the SWRCB and each of the nine RWQCBs the power to protect water quality and is the primary vehicle for implementation of California's responsibilities under the CWA. The applicable RWQCB for the project site is the Central Valley RWQCB. The SWRCB and the Central Valley RWQCB have the authority and responsibility to adopt plans and policies, regulate discharges to surface and groundwater, regulate waste disposal sites, and require cleanup of discharges of hazardous materials and other pollutants. The Porter-Cologne Act also establishes reporting requirements for unintended discharges of any hazardous substances, sewage, or oil or petroleum products.

Under the Porter-Cologne Act, each RWQCB must formulate and adopt a Water Quality Control Plan (known as a "Basin Plan") for its region. The Basin Plan for the Central Valley RWQCB includes a comprehensive list of water bodies within the region and detailed language about the components of applicable Water Quality Objectives (WQOs). The Basin Plan recognizes natural water quality, existing and potential beneficial uses, and water quality problems associated with human activities throughout the Sacramento and San Joaquin River Basins. Through the Basin Plan, the Central Valley RWQCB executes its regulatory authority to enforce the implementation of TMDLs, and to ensure compliance with surface WQOs. The Central Valley RWQCB also administers the adoption of waste discharge requirements (WDRs), manages groundwater quality, and adopts projects within its boundaries under the NPDES General Permit for Stormwater Discharges Associated with Industrial Activities (Industrial General Permit).

NPDES Construction General Permit for Stormwater Discharges Associated with Construction Activity

Dischargers whose projects disturb 1 or more acres of soil, or whose projects disturb less than 1 acre but are part of a larger common plan of development that in total disturbs 1 or more acres, are required to obtain coverage under SWRCB's Construction General Permit (Order WQ 2022-0057-DWQ). Construction activity subject to this permit includes clearing, grading, and disturbances to the ground, such as stockpiling or excavation.

Coverage under the Construction General Permit is obtained by submitting permit registration documents to SWRCB that include a risk-level assessment and a site-specific stormwater pollution prevention plan (SWPPP) that identifies an effective combination of erosion control, sediment control, and non-stormwater best management practices (BMPs). The Construction General Permit requires that the SWPPP define a program of regular inspections of the BMPs and, in some cases, sampling of water quality parameters.

NPDES Industrial General Permit for Stormwater Discharges Associated with Industrial Activity

The Statewide General Permit for Stormwater Discharges Associated with Industrial Activities, Order 2014-0057-DWQ, as amended in 2015 and 2018, (Industrial General Permit) implements the federally required stormwater regulations in California for stormwater associated with industrial activities discharging to waters of the United States. The Industrial General Permit regulates discharges associated with nine federally defined categories of industrial activities, including surface mining activities. The SWRCB and RWQCB implement and enforce the Industrial General Permit. The Industrial General Permit regulates industrial storm water discharges and authorized non-storm water discharges (NSWDs) from specific categories of industrial facilities, and industrial storm water discharges and authorized NSWDs from facilities designated by the Regional Water Boards to obtain coverage under this General Permit. The Industrial General Permit does not apply to industrial storm water discharges and NSWDs that are regulated by other individual or general NPDES permits.

CALIFORNIA SURFACE MINING AND RECLAMATION ACT

The Surface Mining and Reclamation Act of 1975 (SMARA) (Public Resources Code, Sections 2710-2796) and its implementing regulations (California Code of Regulations, Title 14, Section 3500 et seq.) provide a comprehensive surface mining and reclamation policy with the regulation of surface mining operations to assure that adverse environmental impacts are minimized and mined lands are reclaimed to a usable condition. SMARA also encourages the production, conservation, and protection of the State's mineral resources. Public Resources Code Section 2207 provides annual reporting requirements for all mines in the state, under which the State Mining and Geology Board is also granted authority and obligations to ensure reclamation of mined lands. SMARA 14 California Code of Regulations Section 3706 would apply to the proposed project:

a) Surface mining and reclamation activities shall be conducted to protect on-site and downstream beneficial uses of water in accordance with the Porter-Cologne Water Quality Control Act, Water Code section 13000, et seq., and the Federal Clean Water Act, 33 U.S.C. section 1251, et seq.

b) The quality of water, recharge potential, and storage capacity of ground water aquifers which are the source of water for domestic, agricultural, or other uses dependent on the water, shall not be diminished, except as allowed in the approved reclamation plan.

c) Erosion and sedimentation shall be controlled during all phases of construction, operation, reclamation, and closure of a surface mining operation to minimize siltation of lakes and watercourses, as required by the Regional Water Quality Control Board or the State Water Resources Control Board.

d) Surface runoff and drainage from surface mining activities shall be controlled by berms, silt fences, sediment ponds, revegetation, hay bales, or other erosion control measures, to ensure that surrounding land and water resources are protected from erosion, gullying, sedimentation and contamination. Erosion control methods shall be designed to handle runoff from not less than the 20 year/1 hour intensity storm event.

e) Where natural drainages are covered, restricted, rerouted, or otherwise impacted by surface mining activities, mitigating alternatives shall be proposed and specifically approved in the reclamation plan to assure that runoff shall not cause increased erosion or sedimentation.

f) When stream diversions are required, they shall be constructed in accordance with:

    i. the stream and lake alteration agreement between the operator and the Department of Fish and Game; and

ii. the requirements of the Federal Clean Water Act, Sections 301 (33 U.S.C. 1311) and Section 404 (33 U.S.C. 1344) and/or Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

g) When no longer needed to achieve the purpose for which they were authorized, all temporary stream channel diversions shall be removed and the affected land reclaimed.

California Water Code

The California Water Code is enforced by the California Department of Water Resources (DWR). The mission of DWR is "to manage the water resources of California in cooperation with other agencies, to benefit the State's people, and to protect, restore, and enhance the natural and human environments." DWR is responsible for promoting California's general welfare by ensuring beneficial water use and development statewide.

Groundwater Management

Groundwater Management is outlined in the California Water Code, Division 6, Part 2.75, Chapters 1-5, Sections 10750 through 10755.4. The Groundwater Management Act was first introduced in 1992 as Assembly Bill (AB) 3030 and has since been modified by Senate Bill (SB) 1938 in 2002, AB 359 in 2011, and SGMA (SB 1168, SB 1319, and AB 1739) in 2014. The intent of these Acts is to encourage local agencies to work cooperatively to manage groundwater resources within their jurisdictions and to provide a methodology for developing a Groundwater Management Plan.

The SGMA became law on January 1, 2015, and applies to all groundwater basins in the state (Water Code Section 10720.3). By enacting the SGMA, the legislature intended to provide local agencies with the authority and the technical and financial assistance necessary to sustainably manage groundwater within their jurisdiction (Water Code Section 10720.1). Pursuant to the SGMA, any local agency that has water supply, water management or land use responsibilities within a groundwater basin may elect to be a "groundwater sustainability agency" (GSA) for that basin (Water Code Section 10723). The Sacramento Central Groundwater Authority has notified DWR that it has elected to become a GSA pursuant to Water Code Section 10723.8 and intends to undertake sustainable groundwater management in area roughly coincident with the Sacramento Valley Groundwater Basin, South American Subbasin.

Regional

Central Sacramento County Groundwater Management Plan

The Central Sacramento County Groundwater Basin stakeholders, in coordination with the Sacramento County Water Agency and the Water Forum Successor Effort, have developed the CSCGMP. The CSCGMP represents a critical step in establishing a framework for maintaining a sustainable groundwater resource for the various users overlying the basin in Sacramento County between the American and Cosumnes Rivers. The CSCGMP was prepared in accordance with AB 3030 and SB 1938, the SGMA, as amended.

South American Subbasin Groundwater Sustainability Plan

The SGMA requires local entities to jointly assess groundwater conditions in their local areas and to develop a groundwater sustainability plan (GSP) by a specified deadline to ensure that sustainable conditions are achieved within 20 years of GSP adoption. An effective and efficient groundwater management plan is critical to the health and welfare of the people, the environment, and all other uses and users of groundwater in a local area. Six local entities responded to the mandate of SGMA and formed GSAs within the South American Subbasin. Sacramento Central Groundwater Agency (SCGA), Omochumne-Hartnell Water District (OHWD), Sloughhouse Resource Conservation District (SRCD), North Delta GSAs (NDGSA), Reclamation District 551 (RD 551), and Sacramento County, henceforth "the GSAs," have agreed to work together to develop and implement a GSP for the South American Subbasin.

Local

Sacramento County 2030 General Plan

The following 2030 General Plan policies would apply to the proposed project:

- **Policy CO-26.** Protect areas susceptible to erosion, natural water bodies, and natural drainage systems.
- **Policy CO-28**. Comply with other water quality regulations and NPDES permits as they apply to County projects or activities, such as the State's Construction General Permit and Aquatic Pesticides Permit.
- **Policy CO-31.** Require property owners to maintain all required stormwater measures to ensure proper performance for the life of the project
- **Policy CO-93.** Discourage fill in the 100-year floodplain (Please also refer to CO-117).
- **Policy CO-107.** Maintain and protect natural function of channels in developed, newly developing, and rural areas.
- **Policy CO-114.** Protect stream corridors to enhance water quality, provide public amenities, maintain flood control objectives, preserve and enhance habitat, and offer recreational and educational opportunities.
- **Policy CO-117.** Public roads, parking, and associated fill slopes shall be located outside of the stream corridor, except at stream crossings and for purposes of extending or setting back levees. The construction of public roads and parking should utilize structural materials to facilitate permeability. Crossings shall be minimized and be aesthetically compatible with naturalistic values of the stream channel.
- **Policy CO-126.** Prohibit obstruction or underground diversion of natural waterways.

COMMUNITY PLANS

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project.

VINEYARD COMMUNITY PLAN

The following policies identified in the Vineyard Community Plan would apply to the proposed project:

NATURAL ENVIRONMENTAL RESOURCES GOALS AND OBJECTIVES

- To protect flood zones from encroachment or other adverse impacts.
- To preserve natural stream channels, wetlands, vernal pools, and wildlife habitats.

COMMERCIAL/INDUSTRIAL GOALS AND OBJECTIVES

- To develop industrially designed areas in a manner that minimizes negative impacts upon the Vineyard Community.
- To encourage full development of existing industrially zoned or designated lands in lieu of expansion into areas not currently industrially zoned or designated.
- To encourage full utilization of industrially zoned lands by upgrading existing development.

SACRAMENTO COUNTY STORMWATER ORDINANCE

Sacramento County has established a Stormwater Ordinance (Sacramento County Code Chapter 15.12). The Stormwater Ordinance prohibits the discharge of unauthorized non-stormwater to the County's stormwater conveyance system and local creeks. It applies to all private and public projects in the county, regardless of size or land use type.

SACRAMENTO COUNTY FLOODPLAIN MANAGEMENT ORDINANCE

The County's Floodplain Management Ordinance, most recently updated in February 2024 (Sacramento County Ordinance SZC 2024-0001), includes methods and provisions to restrict or prohibit development which is dangerous to health, safety, and property due to flood hazards, or which result in damaging increases in flood heights or velocities; require that development vulnerable to floods, including facilities which serve such development, be protected against flood damage at the time of initial construction; control the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters; control filling, grading, dredging, and other development which may increase flood damage; and prevent or regulate the construction of flood barriers which will unnaturally divert floodwater or which may increase flood hazards in other areas (Sacramento County 2024).

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

Based on Appendix G of the State CEQA Guidelines, impacts to hydrology, drainage, and water quality would be significant if implementation of the proposed project would:

- violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality;
- substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin;
- substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would:
    - result in substantial erosion or siltation on- or off-site,
    - result in flooding on-site or off-site,
    - create or contribute runoff water that would exceed the capacity of existing or planned stormwater-drainage systems or provide substantial additional sources of polluted runoff, or
    - impede or redirect flood flows;
- in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation; or
- conflict with or obstruct implementation of a water quality control plan (i.e., Basin Plan) or sustainable groundwater management plan.

ISSUES NOT DISCUSSED FURTHER

RISK RELEASE OF POLLUTANTS DUE TO INUNDATION IN TSUNAMI OR SEICHE ZONES

The 2016 Final EIR did not evaluate impacts associated with the risk of release of pollutants due to inundation in tsunami or seiche zones with implementation of the approved project. However, the existing Mining Use Permit and Reclamation Plan allows for surface mining on approximately 353 acres of the 683-acre property, and the proposed project would amend the existing entitlement to expand the existing mining footprint by 245.64 acres. Therefore, the proposed project would be located on the same property that was evaluated in the 2016 Final EIR. Because of the distance from the nearest open water body, which is the Pacific Ocean located approximately 100 miles to the west, and the nearest lake, Folsom Lake located approximately 15 miles to the northeast, implementation of the proposed project would not have the potential to be affected by inundation as a result of seiche or tsunami and as such, risk the release of pollutants. Therefore, no impact would occur and no further analysis is warranted in this SEIR.

Methodology

Evaluation of potential impacts related to hydrology, drainage, and water quality is based on information from published maps, site-specific studies, and other documents, including the Drainage Memo prepared for the proposed project (Appendix G) and the Amendments to Aspen VIII & IX Mining and Reclamation Plan Memorandum prepared by the project applicant (Teichert 2024). In determining the level of significance, the analysis assumes that the proposed project would comply with all applicable federal, state, and local laws, ordinances, and regulations.

Impacts and Analysis

Impact HYD-1: Violate Water Quality Standards

2016 Final EIR Determination

The 2016 Final EIR determined that compliance with the requirements administered by the Sacramento County and the Central Valley Regional Water Quality Control Board, including installation of onsite erosion and sediment controls, would ensure that surface mining and reclamation activities associated with the approved project would not adversely affect ground or surface water quality (Impact Evaluation HW-3). Therefore, the 2016 Final EIR determined impacts to water quality would be less than significant.

Proposed Project Impact Evaluation

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. However, the Amended Mining Use Permit would not result in an increase in the annual rate of aggregate extraction and, therefore, would not result in increased operational intensity. As such, the proposed project would operate in a similar manner as the approved project.

Similar to the approved project, water quality impacts could occur during surface mining and reclamation activities associated with the proposed project from increased soil erosion and sedimentation because of clearing vegetation, grading/mining for aggregate, and stockpiling topsoil and overburden. Surface mining and reclamation activities would also utilize construction equipment and other materials, such as hydraulic fluid, insulation oil, grease, and lubricants, that have the potential to contact and reduce water quality of stormwater runoff from the project site.

Since operation of the proposed project would be similar as the approved project, the proposed project would continue to adhere to all federal, state, and local laws and regulations related to water quality, including the NPDES Construction General Permit and General Permit for Stormwater Discharges Associated with Industrial Activities, and Sacramento County Stormwater Ordinance, as applicable to the approved project. The proposed project would also be required to adhere to all applicable requirements and

measures established in the Amended Reclamation Plan prepared for the proposed project, including those incorporated for the protection of water quality (Teichert 2025).

In addition, similar to the approved project, surface runoff is not anticipated as the Aspen VIII and IX Expansion Areas would be self-contained basins. During surface mining activities, direct precipitation and drainage would be controlled through a combination of berms, slit fences, revegetation, hay bales and other erosion and sedimentation control measures, as needed, to ensure that land and water resources are protected from erosion, gullying, sedimentation, and potential contamination. While topsoil and overburden is intended to be used for localized reclamation as feasibly accommodated by the mining schedule, topsoil and overburden would be stockpiled and vegetated if not immediately used (refer to Figure 2-12 in Chapter 2, "Project Description"). Erosion and sediment controls specific to topsoil and overburden include the use of 3-step hydroseeding, spray-on soil stabilizers, and anchored blankets. Vegetated stockpiles would be inspected at least once per year to ensure compliance in accordance with the Amended Reclamation Plan.

Therefore, compliance with requirements of the applicable federal, state, and local laws and regulations related to water quality, including installation of erosion and sedimentation controls, as administered by Sacramento County and the Central Valley Regional Water Quality Control Board would ensure impacts to water quality are less than significant with implementation of the proposed project. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT HYD-2: SUBSTANTIALLY DECREASE GROUNDWATER SUPPLIES OR INTERFERE SUBSTANTIALLY WITH GROUNDWATER RECHARGE

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would not interfere with groundwater recharge, which was documented at depths between 112 to 118 feet below existing grade, as final excavation depths would not exceed 60 below existing grade. In addition, because the approved project would not include any impervious surfaces that would limit water percolation, implementation of the approved project would not interfere with the groundwater recharge. Therefore, the 2016 Final EIR determined impacts would be less than significant (Impact Evaluation HW-4).

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface

mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. Although surface mining and reclamation activities would be extended under the proposed project, the project applicant anticipates a similar operational intensity and annual rate of aggregate extraction for the proposed project as it currently is under the approved project. While the annual rate of aggregate extraction would be driven by market conditions, the average annual rate of aggregate extraction would be expected to slightly fluctuate similar to the market conditions under the approved project. As such, the proposed project would operate in a similar manner as the approved project.

Similar to the approved project, the proposed project would continue to use groundwater from existing onsite groundwater wells located outside of the surface mining footprint but within the project site for dust-suppression purposes. Dust suppression is anticipated to occur on exposed areas disturbed by surface mining and reclamation activities, internal haul roads, and material stockpiles, as necessary, in order to minimize fugitive dust. The existing groundwater well near the future Knox Road entrance and parking area (refer to Figure 2-14) would be retained under the proposed project to supply water long term for dust suppression. Therefore, because operational intensity and dust suppression methods would be similar with implementation of the proposed project, the use of groundwater would be similar as used in existing conditions under the approved project. As such, groundwater demand would remain similar with implementation of the proposed project as it is under the approved project.

Furthermore, pumping and use of groundwater is heavily regulated within California, including by the GSP for the South American Subbasin, which ensures that groundwater supplies are not overdrawn and that groundwater users stay within their permitted pumping requirements in accordance with their groundwater permits and/or approvals. The proposed project is an expansion of the approved project, where pumping and use of groundwater would continue to be regulated through the lifetime of the Amended Mining Use Permit and Reclamation Plan (i.e., 2047). The proposed project would also be required to comply with the same permits/approvals related to groundwater as the approved project. Regulatory compliance would ensure that the prolonged use of on-site groundwater sources would not affect groundwater supplies.

In addition, similar to the approved project, the proposed project would not involve construction of any impervious surfaces that would limit water percolation. As such, the proposed project would not substantially interfere with groundwater recharge. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT HYD-3: SUBSTANTIALLY ALTER THE EXISTING DRAINAGE PATTERN OF THE PROJECT SITE SUCH THAT SUBSTANTIAL EROSION, FLOODING, OR POLLUTED RUNOFF COULD OCCUR

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would substantially alter the existing drainage patterns of the project area and/or increase the rate of amount of surface runoff in a manner that would result in flooding on- or off-site, which is considered a potentially significant (Impact Evaluation HW-1). However, the 2016 Final EIR included Mitigation Measure HW-1, which requires the project applicant to model and incorporate the construction of a side-weir either along Elder Creek within Aspen VIII or IX or the stream's right bank just upstream of Elder Creek Road at the location of the current westbound spill on Aspen VIII to reduce project-related increase in base flood elevation to below 0.1 feet. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure HW-1 (Impact Evaluation HW-1). At the time of preparation of this SEIR, the requirements of Mitigation Measure HW-1 have been met by the project applicant.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing Mining Use Permit, which ends in 2031. Implementation of the proposed project would not alter the course of either Morrison or Elder Creeks. Furthermore, the proposed project would be hydraulically isolated from Elder Creek and therefore, is not anticipated to impact the drainage or water quality of Elder Creek.

As discussed in the Drainage Memo, implementation of the proposed project would maintain the existing drainage conditions in the Aspen VIII Expansion Area by directing runoff from the existing culverts via a riprap or piped rundown to the existing Aspen VIII mining pit floor and ultimately, into the Aspen V South pit via an approximate 200-foot wide opening (Cuningham Engineering 2024) (refer to Figure 14-3). In addition, the Aspen VIII Expansion Area would remain hydraulically disconnected from the existing Aspen VIII mining area at a minimum elevation of 64 feet, which would provide a minimum of 2 feet of freeboard from the previously calculated 100-year Elder Creek Water Surface Elevation of 62' (Cuningham Engineering 2024).

Drainage conditions in the Aspen IX Expansion Area would be improved with implementation of the proposed project by constructing two stormwater retention ponds within the mining area and a berm adjacent to Elder Creek to keep the Aspen IX Expansion Area hydraulically disconnected from the creek and provide a minimum of 3 feet of freeboard (Cuningham Engineering 2024) (refer to Figure 14-4). Because implementation of the proposed project would not affect the existing drainage conditions established by the approved project as a result of previous implementation of Adopted

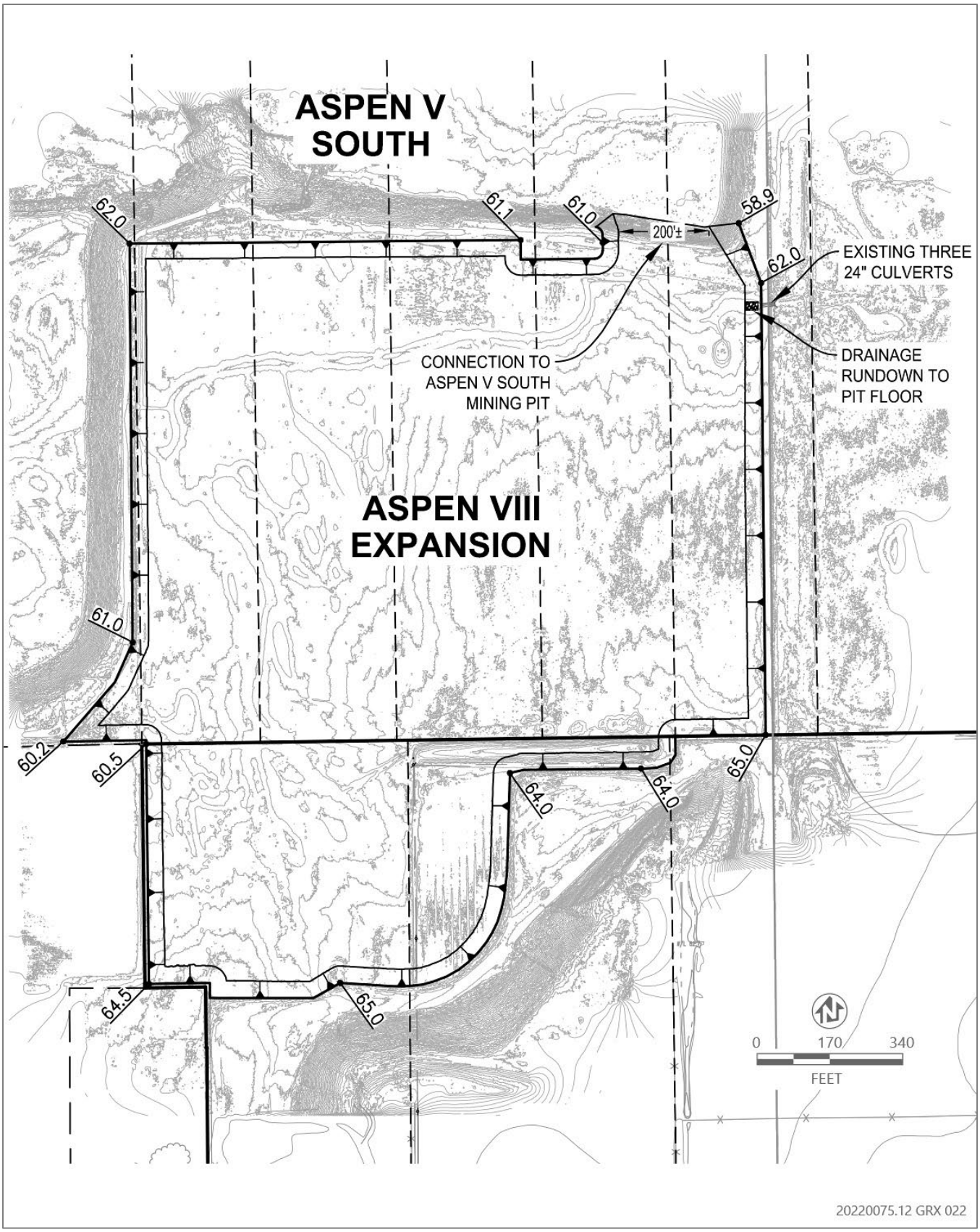
2016 Final EIR Mitigation Measure HW-1, the requirements of this mitigation measure would not apply to the proposed project.

All internal drainage infrastructure and features, including the stormwater retention ponds, berm, and surface runoff controls, would be constructed in accordance all applicable regulations and engineering standards, including all relevant requirements under SMARA. Stormwater runoff would be contained within the Aspen VIII and IX Expansion Areas and would be managed in accordance with all applicable stormwater management requirements in accordance with NPDES, Central Valley Regional Water Quality Control Board, and Sacramento County requirements.

Therefore, the proposed project would not substantially alter the existing drainage pattern of the project site in a manner that would result in substantial erosion, siltation, or runoff and impacts would be less than significant. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and the overall impact would be reduced to **less than significant** since Adopted 2016 Final EIR Mitigation Measure HW-1 would not apply to the proposed project.

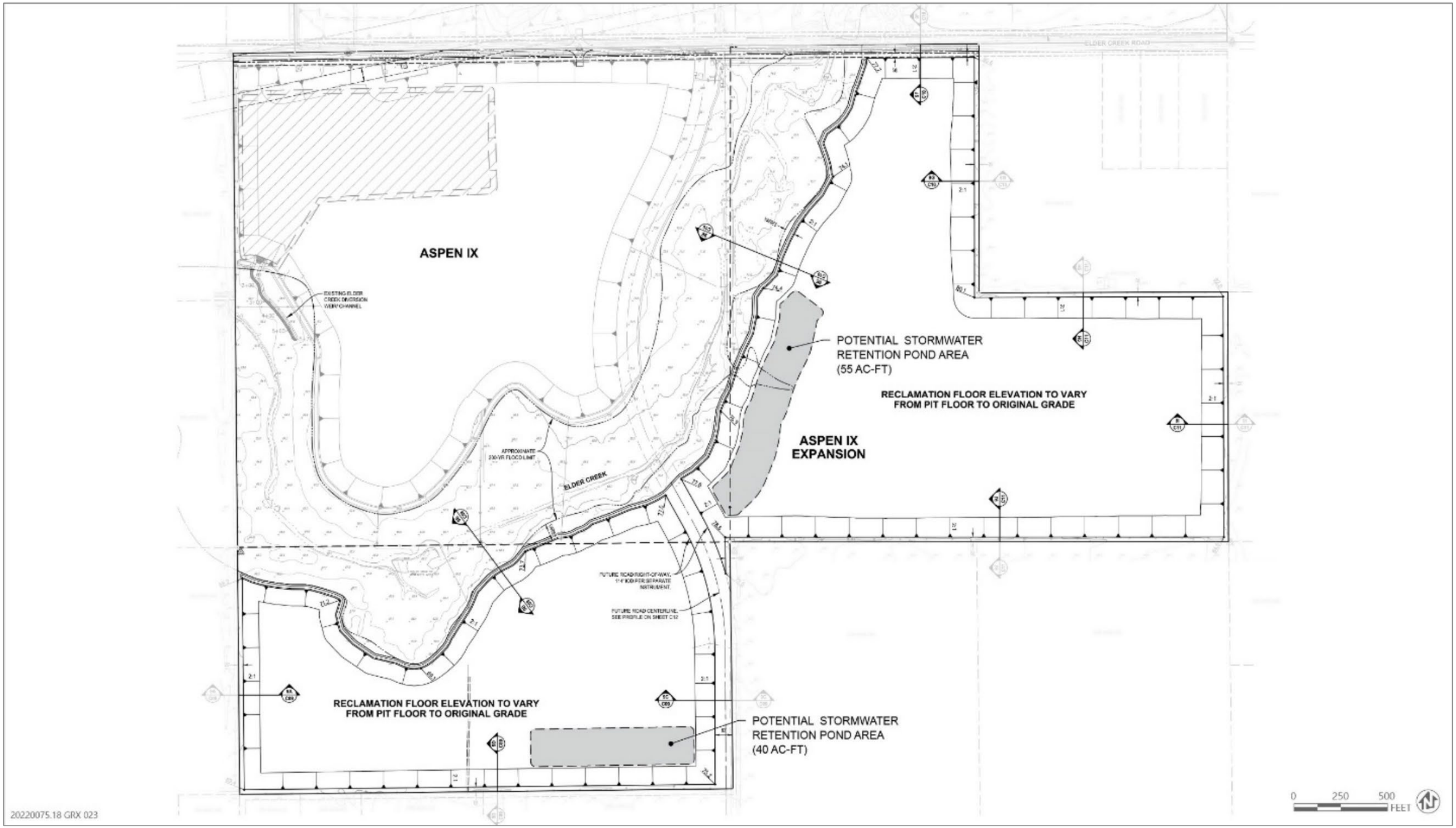
MITIGATION MEASURES

No mitigation is required.



Source: Cuningham Engineering 2025; Adapted by Ascent in 2025.

Figure 14-3: Proposed Drainage Plan for Aspen VIII Expansion Area



Source: Cuningham Engineering 2025; Adapted by Ascent in 2025.

Figure 14-4: Proposed Drainage Plan for Aspen IX Expansion Area

IMPACT HYD-4: RISK RELEASE OF POLLUTANTS DUE TO INUNDATION IN FLOOD HAZARD ZONES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would result in less-than-significant impacts related to flooding because the approved project does not include any development within the floodplain and the excavated mine pits would provide additional storage for flood waters during flooding events (Impact Evaluation HW-2).

PROPOSED PROJECT IMPACT EVALUATION

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres within the same larger property as the approved project. As shown in Figure 14-2, small portions of the Aspen IX Expansion Area are located within the 100-year floodplain and small portions of the Aspen VIII Expansion Area are located within the 500-year floodplain. These areas would be excavated as part of the proposed surface mining operations under the proposed project. Similar to the approved project, the excavated Aspen VIII and IX Expansion Areas would provide more storage for flood waters during flooding events. In addition, as discussed under Impact HYD-3 above, stormwater detention ponds would be constructed in the Aspen IX Expansion Area to prevent on- and off-site flooding. Retaining stormwater runoff in the on-site detention ponds would prevent the release of pollutants due to inundation in flood hazard zones. Therefore, this impact would be less than significant. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT HYD-5: CONFLICT WITH A WATER QUALITY CONTROL PLAN OR SUSTAINABLE GROUNDWATER MANAGEMENT PLAN

2016 FINAL EIR DETERMINATION

Impacts related to conflicts with a water quality control plan or sustainable groundwater management plan were not evaluated in the 2016 Final EIR. However, the 2016 Final EIR did evaluate the approved project's potential to impact water quality (Impact Evaluation HW-3) and to decrease groundwater supplies and recharge (Impact Evaluation HW-4). As discussed in greater detail under Impacts HYD-1 and HYD-2 above, the 2016 Final EIR determined that implementation of the approved project would result in less than significant impacts to water quality, and groundwater supplies and recharge.

Proposed Project Impact Evaluation

The applicable Basin Plan for the project site is the CSCGMP. As discussed under Impact HYD-1, similar to the approved project, the proposed project would comply with all requirements of the applicable federal, state, and local laws, regulations, and plans related to water quality, including the CSCGMP, as administered by Sacramento County and the Central Valley Regional Water Quality Control Board. Therefore, the proposed project would not conflict with the CSCGMP and impacts related to water quality would be less than significant.

Similar to the approved project, the proposed project would not involve construction of any impervious surfaces that would limit water percolation and interfere with groundwater recharge. In addition, the GSP for the South American Subbasin is applicable to the project site. As discussed under Impact HYD-2, similar to the approved project, the proposed project would continue to use groundwater from existing groundwater wells located outside of the surface mining footprint but within the project site for dust-suppression purposes. Dust suppression is anticipated to occur on exposed areas disturbed by surface mining and reclamation activities, internal haul roads, and material stockpiles, as necessary, in order to minimize fugitive dust. The existing groundwater well near the future Knox Road entrance and parking area (refer to Figure 2-14) would be retained to supply water long term for dust suppression. Therefore, because operational intensity and dust suppression methods would be similar with implementation of the proposed project, the use of groundwater would be similar as used in existing conditions under the approved project. As such, groundwater demand would remain similar with implementation of the proposed project as it is under the approved project.

Furthermore, pumping and use of groundwater is heavily regulated within California, including by the GSP for the South American Subbasin, which ensures that groundwater supplies are not overdrawn and that groundwater users stay within their permitted pumping requirements in accordance with their groundwater permits and/or approvals. The proposed project is an expansion of the approved project, where pumping and use of groundwater would continue to be regulated through the lifetime of the Amended Mining Use Permit and Reclamation Plan (i.e., 2047). The proposed project would also be required to comply with the same permits/approvals related to groundwater as the approved project. Regulatory compliance would ensure that the prolonged use of on-site groundwater sources would not affect groundwater supplies nor cause the proposed project to conflict with the GSP for the South American Subbasin or any other groundwater plan. In addition, As such, the proposed project would not conflict with the GSP for the South American Subbasin and impacts to groundwater supplies and recharge would be less than significant.

Thus, implementation of the proposed project would not conflict with the CSCGMP or the GSP for the South American Subbasin and implementation of the proposed project would not conflict or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed

project's contribution to this impact would not be substantial and overall impacts would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

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15 NOISE

INTRODUCTION

This chapter evaluates the potential impacts related to noise and vibration resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the existing ambient noise conditions; discusses applicable federal, state, and local regulations and policies related to noise and vibration; and assesses long-term noise and vibration impacts associated with implementation of the proposed project. The analysis within this chapter is based on the *Environmental Noise and Vibration Assessment prepared for the Aspen VIII & IX Mining Use Permit Amendment Project* prepared by Bollard Acoustical Consultants (BAC) in August 2025, presented in Appendix H.

No comments were received regarding noise and vibration in response to the Notice of Preparation (NOP). The NOP and comments received in response to the NOP are presented in Appendix A.

Potential exposure to excessive noise levels associated with airport operations is discussed in Chapter 7, “Airport Compatibility,” of this SEIR and is not discussed further in this chapter.

COMMON NOISE AND VIBRATION DESCRIPTORS

Noise in our daily environment fluctuates over time. Various noise descriptors have been developed to describe time-varying noise levels. The following are the noise descriptors used throughout this chapter.

Percentile-Exceeded Sound Level (L_x): L_x represents the sound level exceeded for a given percentage of a specified period (e.g., L_{10} is the sound level exceeded 10 percent of the time, and L_{90} is the sound level exceeded 90 percent of the time) (Caltrans 2013: 2-48).

Maximum Sound Level (L_{max}): L_{max} is the highest instantaneous sound level measured during a specified period (Caltrans 2013: 2-48; FTA 2018: Table 3-1).

Day-Night Level (L_{dn}): L_{dn} is the energy average of A-weighted sound levels occurring over a 24-hour period, with a 10 decibels “penalty” applied to sound levels occurring during nighttime hours between 10 p.m. and 7 a.m. (Caltrans 2013: 2-48; FTA 2018: Table 3-1).

Vibration Decibels (VdB): VdB is the vibration velocity level in decibel scale (FTA 2018: Table 5-1).

Peak Particle Velocity (PPV): PPV is the peak signal value of an oscillating vibration waveform. Usually expressed in inches/second (in/sec) (FTA 2018: Table 5-1).

Environmental Setting

As described in Chapter 2, “Project Description,” the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

Acoustic Fundamentals

Sound, Noise, and Acoustics

Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a liquid or gaseous medium (e.g., air) to a human ear. Noise is defined as a loud, unexpected, annoying, or unwanted sound.

In the science of acoustics, the fundamental model consists of a sound (or noise) source, a receiver, and the propagation path between the two. The loudness of the noise source, the presence of obstructions, and atmospheric factors can affect the propagation path to the receiver, determining the sound level and characteristics of the noise perceived by the receiver. The field of acoustics deals primarily with the propagation and control of sound.

Frequency

Continuous sound can be described by frequency (pitch) and amplitude (loudness). A low-frequency sound is perceived as low in pitch. Frequency is expressed in terms of cycles per second, or hertz (Hz) (e.g., a frequency of 250 cycles per second is referred to as 250 Hz). High frequencies are sometimes more conveniently expressed in kilohertz or thousands of hertz. The audible frequency range for humans is generally between 20 Hz and 20,000 Hz.

Sound Pressure Levels and Decibels

The amplitude of pressure waves generated by a sound source determines the loudness of that source. Sound pressure amplitude is measured in micro-Pascals (mPa). One mPa is approximately one hundred billionths (0.00000000001) of normal atmospheric pressure. Sound pressure amplitudes for different kinds of noise environments can range from less than 100 to 100,000,000 mPa. Because of this large range of values, sound is rarely expressed in terms of mPa. Instead, a logarithmic scale is used to describe sound pressure level (SPL) in terms of decibels (dB).

Addition of Decibels

Because decibels are logarithmic units, SPLs cannot be added or subtracted through ordinary arithmetic. Under the decibel scale, a doubling of sound energy corresponds to a 3-dB increase. In other words, when two identical sources are each producing sound of the same loudness at the same time, the resulting sound level at a given distance would be 3 dB higher than if only one of the sound sources was producing sound under the same conditions. For example, if one idling truck generates an SPL of 70 dB, two trucks idling simultaneously would not produce 140 dB; rather, they would combine to produce 73 dB. Under the decibel scale, three sources of equal loudness together produce a sound level of approximately 5 dB louder than one source.

A-Weighted Decibels

The decibel scale alone does not adequately characterize how humans perceive noise. The dominant frequencies of a sound have a substantial effect on the human response to that sound. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness or human response is determined by the characteristics of the human ear.

Human hearing is limited in the range of audible frequencies, as well as in the way it perceives the SPL in that range. In general, people are most sensitive to the frequency range of 1,000–5,000 Hz and perceive sounds within this range more effectively than those with the same amplitude but frequencies outside of this range. To approximate the response of the human ear, sound levels of individual frequency bands are weighted, depending on the human sensitivity to those frequencies. Then, an “A-weighted” sound level (expressed in units of A-weighted decibels [dBA]) can be computed based on this information.

The A-weighting network approximates the frequency response of the average young ear when listening to most ordinary sounds. When people make judgments about the relative loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Thus, noise levels are typically reported in terms of A-weighted decibels. Table 15-1 describes typical A-weighted noise levels for various noise sources.

Table 15-1: Typical A-Weighted Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	— 110 —	Rock band
Jet fly-over at 1,000 feet	— 100 —	
Gas lawn mower at 3 feet	— 90 —	
Diesel truck at 50 feet at 50 miles per hour	— 80 —	Food blender at 3 feet, Garbage disposal at 3 feet
Noisy urban area, daytime, Gas lawn mower at 100 feet	— 70 —	Vacuum cleaner at 10 feet, Normal speech at 3 feet
Commercial area, Heavy traffic at 300 feet	— 60 —	
Quiet urban daytime	— 50 —	Large business office, Dishwasher next room
Quiet urban nighttime	— 40 —	Theater, large conference room (background)
Quiet suburban nighttime	— 30 —	Library, Bedroom at night
Quiet rural nighttime	— 20 —	
	— 10 —	Broadcast/recording studio
Lowest threshold of human hearing	— 0 —	Lowest threshold of human hearing

Source: Caltrans 2013: Table 2-5.

HUMAN RESPONSE TO CHANGES IN NOISE LEVELS

The doubling of sound energy results in a 3-dB increase in the sound level. However, given a sound level change measured with precise instrumentation, the subjective human perception of a doubling of loudness will typically differ from the measured value.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear can discern 1-dB changes in sound levels when exposed to steady, single-frequency ("pure-tone") signals in the mid-frequency range (1,000–8,000 Hz). In general, the healthy human ear is most sensitive to sounds between 1,000 and 5,000 Hz and perceives both higher and lower frequency sounds of the same magnitude with less intensity (Caltrans 2013: 2-18). In typical noisy environments, changes in noise of 1–2 dB are generally not perceptible. However, it is widely accepted that people can begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5-dB increase is generally perceived as a distinctly noticeable increase, and a 10-dB increase is generally perceived as a doubling of loudness (Caltrans 2013: 2-10). Therefore, a doubling of sound energy (e.g., doubling the volume of traffic on a highway) that would result in a 3-dB increase in sound would generally be perceived as barely detectable.

NOISE ATTENUATION WITH DISTANCE

Stationary "point" sources of noise attenuate (lessen) at a rate of approximately 6 dBA per doubling of distance from the source, not accounting for environmental conditions

(i.e., atmospheric conditions, noise barriers, ground type, vegetation, topography, etc.). Surface traffic (a “moving point” source) would typically attenuate at a lower rate, approximately 4.5 dBA per doubling distance from the source (also dependent upon environmental conditions). Noise from aggregate excavation sites (with both mobile and stationary equipment) would have characteristics of both “point” and “moving point” sources, so attenuation would generally range between 4.5 and 6 dBA per doubling of distance from such areas.

GROUND ABSORPTION

The propagation path of noise from a source to a receiver is usually very close to the ground. Noise attenuation from ground absorption and reflective-wave canceling provides additional attenuation associated with geometric spreading. Traditionally, this additional attenuation has also been expressed in terms of attenuation per doubling of distance. This approximation is usually sufficiently accurate for distances of less than 200 feet. For acoustically hard sites (i.e., sites with a reflective surface between the source and the receiver, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface between the source and the receiver, such as soft dirt, grass, or scattered bushes and trees), an additional ground-attenuation value of 1.5 dB per doubling of distance is normally assumed. When combined with the attenuation rate associated with cylindrical spreading, the additional ground attenuation yields an overall drop-off rate of 4.5 dB per doubling of distance. This would hold true for point sources, resulting in an overall drop-off rate of up to 7.5 dB per doubling of distance.

ATMOSPHERIC EFFECTS

Air absorbs sound energy. The amount of absorption is dependent on the temperature and humidity of the air, as well as the frequency of the sound. Families of curves have been developed that relate these variables to molecular absorption coefficients, frequently expressed in terms of dB per thousand feet. For standard day atmospheric conditions, defined as 59 degrees Fahrenheit and 70 percent relative humidity, the molecular absorption coefficient at 1000 Hz is 1.5 dB per thousand feet. Molecular absorption is greater at higher frequencies and reduced at lower frequencies. In addition, for drier conditions, the molecular absorption coefficients generally increase. Similarly, as temperature increases, molecular absorption coefficients typically increase as well. Anomalous excess attenuation caused by variations in wind speed, wind direction, and thermal gradients in the air can typically be estimated using an attenuation rate of 1.5 dB per thousand feet for a noise source generating a 1000-Hz signal. As with molecular absorption, anomalous excess attenuation typically decreases with lower frequencies and increases with higher frequencies.

SHIELDING BY NATURAL OR HUMAN-MADE FEATURES

A noise barrier is any impediment that intercepts the path of sound as it travels from source to receiver. Such impediments can be natural, such as a hill or other naturally occurring topographic feature that blocks the receiver’s view of the source. Impediments can also be vegetative, such as heavy tree cover, which similarly blocks the source from the view of the receiver. In addition, impediments can be man-made, such as a solid

wall, an earthen berm, or a structure constructed between the noise source and the receiver. Regardless of the type of impediment, the physical properties of sound are such that, at the point where the line of sight between the source and receiver is interrupted by a barrier, a 5-dB reduction in sound typically occurs. The effectiveness of a barrier is a function of the difference in distance sound travels on a straight-line path from source to receiver versus the distance it must travel from source to barrier, then from barrier to receiver.

AUDIBILITY

It should be noted that the audibility of sound can vary substantially from one person to another based on individual hearing acuity. As a result, audibility is not used as a test of significance according to the California Environmental Quality Act (CEQA). CEQA requires a substantial increase in noise levels before noise impacts are identified, not simply an audible change. A discussion of what constitutes a substantial change in noise environments is provided under the “Significance Criteria” section of this chapter.

VIBRATION FUNDAMENTALS AND TERMINOLOGY

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that noise is generally considered to be pressure waves transmitted through air, while vibration is usually associated with transmission through the ground or structures. As with noise, vibration consists of an amplitude and frequency. A person’s response to vibration depends on their individual sensitivity, as well as the amplitude and frequency of the source.

Vibration can be described in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration in terms of velocity in inches per second peak particle velocity (IPS, PPV) or root-mean-square (VdB, RMS). Standards pertaining to perception as well as damage to structures have been developed for vibration in terms of PPV as well as RMS velocities.

As vibrations travel outward from the source, they excite the particles of rock and soil through which they pass and cause them to oscillate. Differences in subsurface geologic conditions and distance from the source of vibration will result in different vibration levels characterized by different frequencies and intensities. In all cases, vibration amplitudes will decrease with increasing distance. The maximum rate, or velocity of particle movement, is the commonly accepted descriptor of the vibration “strength.”

Human response to vibration is subjective and can, therefore, be difficult to quantify. Vibration can be felt or heard well below the levels that produce any damage to structures. The duration of the event and its frequency both have an effect on human response. Generally, as the duration and vibration frequency increase, the potential for adverse human response increases.

According to the *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018), the operation of construction equipment and construction techniques generate ground vibration. At high enough amplitudes, ground vibration has the potential to damage

structures and/or cause cosmetic damage. Ground vibration can also be a source of annoyance to individuals who live or work close to vibration-generating activities.

Existing Conditions

Existing Sensitive Receptors

Noise-sensitive land uses are generally considered to include those uses where noise exposure could result in health-related risks to individuals, as well as places where quiet is an essential element of their intended purpose. Sacramento County's General Plan defines a noise-sensitive outdoor area as the primary outdoor activity area associated with any given land use at which noise sensitivity exists and the location at which the County's exterior noise level standards are applied.

Residential dwellings are of primary concern due to the potential for increased and prolonged exposure of individuals to both interior and exterior noise levels, as well as the potential for nighttime noise to disrupt sleep if a project involves nighttime construction. Additional land uses such as schools, transient lodging, historic sites, cemeteries, parks, and places of worship are also generally considered sensitive to increases in noise levels. Buildings and structures within these land use types are considered vibration-sensitive in addition to commercial and industrial buildings.

The nearest noise-sensitive receptors to the Aspen VIII Expansion Area is the Bellview Cemetery, which is adjacent to the southwest corner of that proposed mining area. In addition, other sensitive receptors located near the Aspen VIII Expansion Area include the Quiet Haven Memorial Park, approximately 1,500 feet south, and single-family homes, approximately 1,600 feet south, along Elder Creek Road. The Bethany Slavic Mission Church is also situated approximately 950 feet northwest of the Aspen VIII Expansion Area along Jackson Road. The nearest sensitive receptors to the Aspen IX Expansion Area include scattered single-family residences, approximately 90 to 950 feet south, along Florin Road, as well as scattered single-family residences, approximately 750 feet northeast, along Elder Creek Road.

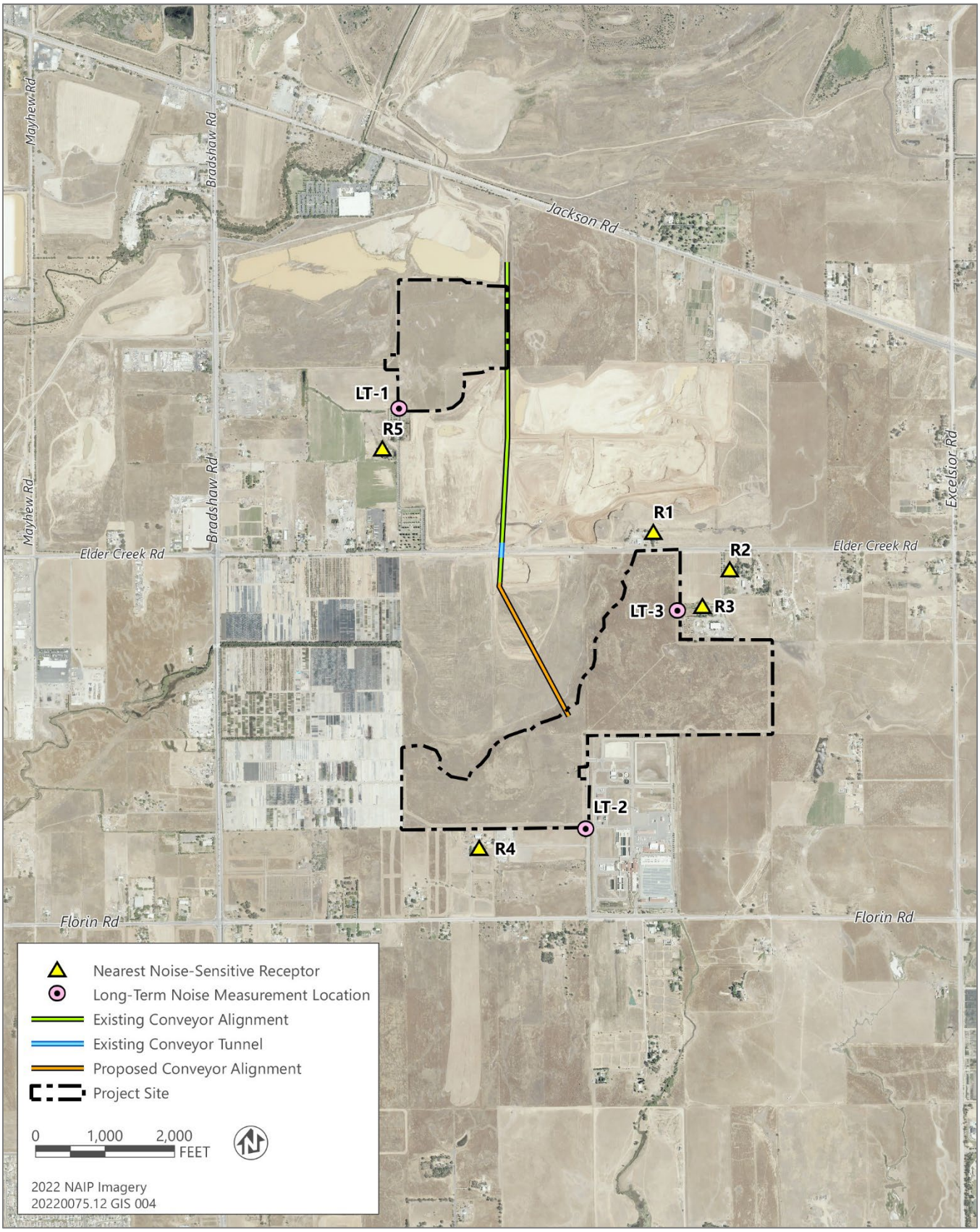
Existing Noise Sources and Ambient Levels

The existing ambient noise environment at adjacent sensitive receptors, as seen in Figure 15-1, is primarily defined by traffic on Elder Creek Road and Florin Road. In addition to transportation noise sources, the project area also contains non-transportation noise sources, including manufacturing, commercial, and industrial uses.

To quantify the existing ambient noise levels in the vicinity of the project site, long-term (24-hour continuous) noise measurements were conducted in 2023 at two locations (LT-1 and LT-2), as shown in Figure 15-1. LT-1 represents the ambient conditions nearest to the Aspen V Expansion Area while LT-2 represents the ambient conditions around the Aspen IX Expansion Area and Florin Road.

In addition, to the long-term noise measurements taken in 2023, ambient noise survey data previously collected in 2007 at Site LT-3 for the approved project is used to

represent ambient conditions at the existing residences (R1 through R3) located along the eastern boundary of the Aspen IX Expansion Area near Elder Creek Road (refer to Figure 15-1). While the LT-3 noise measurement was taken for the approved project in 2007, this noise measurement provides a conservation estimate for this area as ambient noise conditions were quieter than current levels due to less traffic on Elder Creek Road. Table 15-2 summarizes the results of the long-term (24-hour) noise measurements used to establish the existing average ambient noise levels around the project site.



Source: Created by Ascent 2025.

Figure 15-1: Noise Monitoring Locations

Table 15-2: Long-Term (24-Hour) Noise Measurements Results[1]

Site	Description	Date	L_{dn} (dBA)	Average Hourly Noise Levels			
				Daytime		Nighttime	
				L_{50}	L_{max}	L_{50}	L_{max}
LT-1	Aspen Expansion, south boundary	9/14/23	54	43	64	45	57
		9/15/23	53	44	62	44	57
		9/16/23	50	43	60	42	54
		9/17/23	48	64	64	39	52
		9/18/23	53	44	64	42	52
		Average	**52**	**43**	**63**	**42**	**55**
LT-2	Aspen IX South, south boundary	9/14/23	53	42	73	43	63
		9/15/23	52	42	73	43	61
		9/16/23	55	43	66	42	61
		9/17/23	50	43	72	41	57
		9/18/23	53	43	64	43	61
		Average	**53**	**42**	**69**	**42**	**61**
LT-3	800 feet south of Elder Creek Road near R3	11/1/07	57	45	74	41	66
		Average	**57**	**45**	**74**	**41**	**66**

Notes: Ldn = day-night level; L50 = percentile-exceeded sound level; Lmax = maximum sound level; dBA = A-weighted decibels.

1 Detailed Summaries of the noise monitoring results are provided in Appendix H

2 Long-term noise survey locations are identified in Figure 15-1.

3 Daytime hours: 7:00 a.m. to 10:00 p.m.

4 Nighttime hours: 10:00 p.m. to 7:00 a.m.

Source: BAC 2025.

Existing Vibration Environment

The sources of ground vibration in the project area include local surface traffic and other surface mining operations. No ambient vibration sources have been identified on the project site, as the project site is undeveloped, grassland areas with no active uses. In the vicinity of the project site, the approved project and local surface traffic along Elder Creek and Florin Roads are considered sources of ground vibration. However, because vibration from tires rolling on pavement and soft ground is non-impulsive, ground vibration from these sources dissipates rapidly. As a result, the ambient vibration environment is considered to be negligible at the nearest sensitive receptors to the project site.

REGULATORY SETTING

FEDERAL

FEDERAL TRANSIT ADMINISTRATION

To address the human response to ground vibration, the Federal Transit Administration (FTA) has set forth guidelines for maximum-acceptable vibration criteria for different types of land uses (see Table 15-3). FTA has also established construction vibration damage criteria, shown in Table 15-4.

Table 15-3: Ground-Borne Vibration Impact Criteria for General Assessment

Land Use Category	GVB Impact Levels (VdB re 1 micro-inch/second) Frequent Events[1]	GVB Impact Levels (VdB re 1 micro-inch/second) Occasional Events[2]	GVB Impact Levels (VdB re 1 micro-inch/second) Infrequent Events[3]
Category 1: Buildings where vibration would interfere with interior operations.	65[4]	65[4]	65[4]
Category 2: Residences and buildings where people normally sleep.	72	75	80
Category 3: Institutional land uses with primarily daytime uses.	75	78	83

Notes: GVB = Ground-Borne Vibration; VdB = vibration decibels referenced to 1 µ inch/second and based on the root mean square (RMS) velocity amplitude.

[1] "Frequent Events" is defined as more than 70 vibration events of the same source per day.

[2] "Occasional Events" is defined as between 30 and 70 vibration events of the same source per day.

[3] "Infrequent Events" is defined as fewer than 30 vibration events of the same source per day.

[4] This criterion is based on levels that are acceptable for most moderately sensitive equipment such as optical microscopes. Vibration-sensitive manufacturing or research would require detailed evaluation to define acceptable vibration levels.

Source: FTA 2018: 123–126.

Table 15-4: FTA Construction Damage Vibration Criteria

Land Use Category	PPV in/sec
Reinforced-concrete, steel or timber (no plaster)	0.5
Engineered concrete and masonry (no plaster)	0.3
Non-engineered timber and masonry buildings	0.2
Buildings extremely susceptible to vibration damage	0.12

Notes: PPV = peak particle velocity, in/sec = inches per second.

Source: FTA 2018.

State

California Building Code Sound Transmission Standards

Noise within habitable units that is attributable to external sources is regulated by the California Building Standards codified in the California Code of Regulations, Title 24, Part 2, Section 1206. These standards are enforceable at the time of construction or during occupancy and apply to habitable units with common interior walls, partitions, and ceilings, as well as those adjacent to public areas, such as halls, corridors, stairways, and service areas. Under these standards, the interior noise levels attributable to exterior sources shall not exceed 45 dB in any habitable room. The noise metrics used to measure these levels can be L_{dn} or CNEL (Community Noise Equivalent Level), consistent with the local general plan. An acoustical analysis documenting compliance with the interior sound level standards shall be prepared for structures containing habitable rooms. Under Public Resources Code Section 25402.1(g), all cities and counties in the state are required to enforce the adopted California Building Code, including these standards for noise in interior environments.

Local

Sacramento County 2030 General Plan

The following 2030 General Plan policies (Sacramento County 2022) would apply to the proposed project:

- **Policy NO-5.** The interior and exterior noise level standards for noise-sensitive areas of new uses affected by existing non-transportation noise sources in Sacramento County are shown by Table 2 [presented as Table 15-5 in this SEIR]. Where the noise level standards of Table 2 are predicted to be exceeded at a proposed noise-sensitive area due to existing non-transportation noise sources, appropriate noise mitigation measures shall be included in the project design to reduce projected noise levels to a state of compliance with the Table 2 standards within sensitive areas.
- **Policy NO-6.** Where a project would consist of or include non-transportation noise sources, the noise generation of those sources shall be mitigated so as not exceed the interior and exterior noise level standards of Table 2 [presented as Table 15-5 in this SEIR] at existing noise-sensitive areas in the project vicinity.
- **Policy NO-7.** The “last use there” shall be responsible for noise mitigation. However, if a noise-generating use is proposed adjacent to lands zoned for uses which may have sensitivity to noise, then the noise generating use shall be responsible for mitigating its noise generation to a state of compliance with the Table 2 [presented as Table 15-5 in this SEIR] standards at the property line of the generating use in anticipation of the future neighboring development
- **Policy NO-8.** Noise associated with construction activities shall adhere to the County Code requirements. Specifically, Section 6.68.090(e) addresses construction noise within the County.

- **Policy NO-13**. Where noise mitigation measures are required to satisfy the noise level standards of this Noise Element, emphasis shall be placed on the use of setbacks and site design to the extent feasible, prior to consideration of the use of noise barriers.

Table 15-5: Non-Transportation Noise Standards Median (L_{50})/Maximum (L_{max})

New Land Use	Outdoor Area		Interior
	Daytime (dBA)	Nighttime (dBA)	Day and Night (dBA)
All Residential	55 / 75	50 / 70	35 / 55
Transient lodging[4]	55 / 75	---	35 / 55
Hospitals and nursing homes[5,6]	55 / 75	---	35 / 55
Theaters and auditoriums[6]	---	---	30 / 50
Churches, meeting halls, schools, libraries, etc.[6]	55 / 75	---	35 / 60
Office buildings[6]	60 / 75	---	45 / 65
Commercial buildings[6]	---	---	45 / 65
Playgrounds, parks, etc[6]	65 / 75	---	---
Industry[6]	60 / 80	---	50 / 70

Notes: L_{50} = Percentile-Exceeded Sound Level; L_{max} = Maximum Sound Level; dBA = A-Weighted Decibels

[1] The Table 2 standards shall be reduced by 5 dB for sounds consisting primarily of speech or music, and for recurring impulsive sounds. If the existing ambient noise level exceeds the standards of Table 2, then the noise level standards shall be increased at 5 dB increments to encompass the ambient.

[2] Sensitive areas are defined in the acoustic terminology section.

[3] Interior noise level standards are applied within noise-sensitive areas of the various land uses, with windows and doors in the closed positions.

[4] Outdoor activity areas of transient lodging facilities are not commonly used during nighttime hours.

[5] Hospitals are often noise-generating uses. The exterior noise level standards for hospitals are applicable only at clearly identified areas designated for outdoor relaxation by either hospital staff or patients.

[6] The outdoor activity areas of these uses (if any) are not typically utilized during nighttime hours.

[7] Where median (L50) noise level data is not available for a particular noise source, average (Leq) values may be substituted for the standards of this table provided the noise source in question operates for at least 30 minutes of an hour. If the source in question operates less than 30 minutes per hour, then the maximum noise level standards shown would apply.

Source: Sacramento County 2013.

Sacramento County Code of Ordinances

Chapter 6.68 of the Sacramento County Code pertains to noise control. A summary of the County Noise Ordinance Standards is provided in Table 15-6. The standards are consistent with those found in the Sacramento County General Plan Noise Element, Table 2 (recreated as Table 15-5 in this SEIR).

Table 15-6: Noise Levels Standards for Residential Uses Affected by Non-Transportation Noise

Statistical Descriptor	Daytime (7 a.m. to 10 p.m.)	Nighttime (10 p.m. – 7 a.m.)
L_{50}	55 dBA	50 dBA
L_{max}	75 dBA	70 dBA

Notes: L_{50} = Percentile-Exceeded Sound Level; L_{max} = Maximum Sound Level; dBA = A-Weighted Decibels

[1] If the ambient noise level exceeds the permitted L_{50} value shown above, the allowable noise limit shall be increased in five dBA increments to encompass the ambient noise level. If measured ambient noise levels exceed the permitted L_{max} values, the maximum ambient noise level shall be the noise limit for that category.

Source: Sacramento County 2024.

SACRAMENTO COUNTY ZONING CODE

The Sacramento County Zoning Code, Section 4.8, contains regulations and standards for aggregate mining operations. The specific sections that pertain to noise generation of the project are reproduced below:

SECTION 4.8.11.F – NOISE DATA

The application must include a plan indicating the anticipated noise contour levels on the mining site and adjacent properties along with the measures proposed to control the noise. When mining, processing, and related activities are planned to occur within 500 feet of a habitable structure and/or potentially incompatible use, the mining operator shall provide to the County a noise monitoring program prepared by a qualified acoustical consultant (chosen from a list provided by Planning and Environmental Review). The study area radius of the noise monitoring program shall be increased to 1,000 feet if habitable structures and/or potentially incompatible uses are on land with either Agricultural or Agricultural- Residential zoning. The program will be used to evaluate the effectiveness of mitigation measures in reducing noise levels to comply with applicable noise ordinances. A qualified consultant shall test noise levels during the removal of overburden, the extraction of aggregates and the backfill of overburden as they occur at abutting residential boundaries. The owners of habitable structures and/or potentially incompatible uses included in the study area shall be notified when testing is to occur. Further testing may not be required if the consultant determines the mitigation measures are successful in achieving the required noise reduction. If testing indicates that noise standards are exceeded, the testing results shall be reported to the County and additional mitigation measures will be required.

SECTION 4.8.12.A – OPERATING HOURS

The operating standards for surface mining operations are codified in the Zoning Code Section 4.8.12.A, “Operating Hours,” which is provided below:

> Unless otherwise provided as a condition of use permit the hours of operation of mining, processing, maintenance, and related activities shall be as set forth:
>
> 1. When mining, processing, and related activities occur within 1,000 feet of a habitable structure and/or potentially incompatible use on land zoned Agricultural or Agricultural-Residential, or within 500 feet from a habitable structure and/or

potentially incompatible uses in all other zones, or are otherwise provided as a condition of use permit, then the hours of operation of mining, processing and related activities, including haul out, shall be:

a. Monday through Friday, inclusive: 6:00 a.m. until 9:00 p.m.; maintenance operations beyond mining hours to occur from 9:00 p.m. to midnight

b. Saturday: 7:00 a.m. through 3:00 p.m.; maintenance operations beyond mining hours to occur from 3:00 p.m. to 4:00 p.m.

c. Sunday and any Federal/State holidays: no mining, processing, hauling or maintenance permitted.

2. For all parcels not subject to Section 4.8.12.A.1, the hours of operation of mining, processing, maintenance, and related activities, including haul out, shall be:

a. Monday through Friday, inclusive: 6:00 a.m. until 10:00 p.m.; maintenance operations beyond mining hours to occur from 10:00 p.m. to 6:00 a.m.

b. Saturday: 6:00 a.m. through 3:00 p.m.; maintenance operations beyond mining hours to occur from 3:00 p.m. to 10:00 p.m.

c. Sunday and any Federal/State holidays: no mining, processing, hauling or maintenance permitted.

SECTION 4.8.12.E – NOISE

Unless otherwise provided by ordinance, the sound level created by the mining use at the boundary line of the authorized mining area shall not exceed 70 dBA except along a boundary contiguous to another area authorized to mine for sand or aggregates. A violation of the noise standard will occur if the noise level at the property line exceeds:

1. The noise limit for a cumulative period of more than 30 minutes in any hour, or;

2. The noise limit plus 5 dBA for a cumulative period of more than one minute in any hour, or the noise limit plus 20 dBA for any period of time.

SECTION 4.8.12.F – MINING SETBACKS

Unless otherwise provided as a condition to the use permit, mining areas shall be set back from property lines, public streets, and sewage disposal systems as follows:

1. Periphery of Mining Site. A 25-foot minimum setback from the property line is required, the first five (5) feet of which shall consist of undisturbed land.

SECTION 4.8.14.A.5 – NOISE BARRIERS

The operators should provide noise barriers consisting of 8-foot high earthen berms or temporary portable barriers installed and moved along property boundaries as mining progresses. The noise barriers should be maintained in place at least until sufficient pit excavation has occurred.

Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project as the project site is located within the plan area.

Vineyard Community Plan

The Vineyard Community Plan contains the following policies related to noise and vibration that would apply to the proposed project:

- **Policy NER 6.** Require buffering and appropriate screening between commercial/industrial development and residential land use and between commercial/industrial development and agricultural uses.
- **Policy CI 4.** Commercial/industrial development must be adequately buffered from adjacent residential or agricultural uses with screening, open space or less dense development, or other means.
- **Policy FU 1.** Buffer, through incremental zoning, residential development from industrial and agricultural land use areas.

Significance Criteria and Methodology

Significance Criteria

Based on Appendix G of the State CEQA Guidelines, noise policies and standards in the County Municipal Code, the General Plan Noise Element, and FTA vibration and noise standards, impacts related to noise or vibration would be significant if implementation of the proposed project would:

Short-Term Construction Noise

Generate a substantial temporary increase in noise levels at noise-sensitive land uses that exceed the following standards:

- Construction noise would result in a significant impact if activities were to take place between the hours of 8:00 p.m. and 6:00 a.m. on weekdays and between the hours of 8:00 p.m. and 7:00 a.m. on Saturday and Sunday,
- and exceed nighttime exterior noise standards (i.e., 50 dB L_{eq}) described in the County Code Section 6.68.07.

Short-Term Construction Vibration

Generate short-term construction vibration or expose sensitive land uses to long-term operational vibration sources that exceed the following Caltrans and FTA guidance for vibration impacts related to structural damage and human response, respectively:

OPERATIONAL TRAFFIC NOISE

Generate a substantial permanent increase in traffic noise levels at noise-sensitive land uses that exceed the following standards established by the County General Plan:

- Human Response (Table 15-3):
  - For frequent events (i.e., more than 70 events per day): 65 VdB
  - For occasional events (i.e., 30-70 events per day): 75 VdB, or
  - For infrequent events (i.e., fewer than 30 events per day): 80 VdB.

OPERATIONAL TRAFFIC NOISE

Generate a substantial permanent increase in traffic noise levels at noise-sensitive land uses that exceed the following standards established by the County General Plan:

- Exceed the noise standard of 65 dB L_{dn} for residential uses per General Plan Policy NO-1 (refer to Table 1, "Noise Standards for New Uses Affected by Traffic and Railroad Noise Sacramento County Noise Element" of the Sacramento County Noise Element) as a result of buildout of the project; or
- Where Table 1 of the Sacramento County Noise Element standards are currently exceeded for applicable land uses, result in a substantial increase in noise per General Plan Policy NO-9 as follows:
  - +5 dB increase where baseline levels are below 60 dB L_{dn}
  - +3 dB increase where baseline levels are between 60 and 65 dB L_{dn}
  - +1.5 dB increase where baseline levels exceed 65 dB L_{dn}

STATIONARY NOISE

Generate a substantial permanent increase in stationary noise at noise sensitive land uses the following noise standards at the following denoted locations:

- Property Line: 70 dBA L_{50} / 90 dBA L_{max}
- Daytime Residences: 55 dBA L_{50} / 75 dBA L_{max}
- Nighttime Residences: 50 dBA L_{50} / 70 dBA L_{max}

ISSUES NOT DISCUSSED FURTHER

SHORT-TERM CONSTRUCTION NOISE AND VIBRATION

Due to the nature of the approved project being a surface mining operations, where there is no distinction between construction and operational phases and activities, the 2016 Final EIR did not evaluate the approved project for impacts related to short-term construction noise and vibration impacts based on the applicable thresholds at the time. Rather, the 2016 Final EIR evaluated the approved project's potential to result in impacts related to the generation of noise levels in excess of standards established by the local general plan, noise ordinance or applicable standards of other agencies**.** For

this reason, the 2016 Final EIR did not include a significance determination for this issue area.

As the proposed project is an expansion of the approved project's surface mining operation, there would also be no distinction between construction and operational phases and/or activities under the proposed project. For this reason, temporary construction impacts related to noise and vibration are considered operational impacts and are not discussed separately. Refer to Impact NOI-1 below for the assessment of operational noise impacts associated with the proposed project.

OPERATIONAL TRANSPORTATION NOISE

Based on the threshold established for the 2016 Final EIR, the 2016 Final EIR did not evaluate the approved project's potential to result in impacts related to operational transportation noise. For this reason, the 2016 Final EIR did not include a significance determination for this issue area.

The proposed project would not require additional employees beyond the current nine full-time employees who are onsite at any given time under existing conditions under the approved project. Therefore, full-time employees are estimated to currently generate a total of 18 average daily trips. In addition, the project will continue to use the existing conveyor belt system to transfer aggregate off-site to the existing Perkins Plant; therefore, as there will be no use of on-road trucks or increased employee vehicle trips, there will be no increase in VMT associated with the proposed project. As such, there would be no change in transportational noise levels compared to the approved project with implementation of the proposed project. No impact would occur and this issue is not discussed further in this SEIR.

METHODOLOGY

The following analysis is based on the findings of the *Environmental Noise and Vibration Assessment prepared for the Aspen VIII & IX Mining Use Permit Amendment Project* (BAC 2025) prepared for the proposed project (Appendix H). In determining the level of significance, the analysis assumes that the proposed project would comply with all applicable federal, state, and local laws, ordinances, and regulations.

Specific noise measurement information and model assumptions, inputs, and outputs can be found in Appendix H.

IMPACTS AND ANALYSIS

IMPACT NO-1: EXPOSE NEW OR EXISTING SENSITIVE RECEPTORS TO NEW NON-TRANSPORTATION NOISE SOURCES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that the implementation of the approved project would generate noise levels in exceedance of the County's daytime and nighttime noise standards but would not cause a significant increase in noise level at existing sensitive receptors (Impact Evaluations NO-1 and NO-2). The 2016 Final EIR included Mitigation Measure NO-1, which requires various noise-buffering measures to be implemented before and during surface mining activities, such limiting the use of scrapers to a maximum of three pieces of equipment until a sufficient depth has been reached and requiring an 8-foot earthen berm or temporary noise barrier at the property line near specific sensitive receptors. Therefore, the 2016 Final EIR determined that impacts would be less than significant with implementation of Mitigation Measure NO-1. At the time of preparation of this SEIR, the project applicant is continuing to implement Mitigation Measure NO-1 under the approved project.

PROPOSED PROJECT IMPACT EVALUATION

Similar to the approved project, the proposed project would use a variety of heavy-duty construction equipment (e.g., backhoes, front loaders, bulldozers, scrapers, and blade/motor-grinders) as well as would extend and continue to use the existing conveyor belt system to transport extracted aggregate material to the existing Perkins Plant. Operation hours under the proposed project would remain the same as under the approved project (i.e., 6 a.m. to 9 p.m.). Sacramento County Code of Ordinances Chapter 6.68 defines nighttime as 10 p.m. to 7 a.m. Because surface mining operations could occur between 6 a.m. and 9 p.m., there is the potential for noise-generating activities to occur during the County-designated nighttime hours. As such, the proposed project could potentially generate project-related noise at adjacent sensitive receptors during daytime and nighttime hours.

It should be noted that the operating hours of the proposed project are compliant with the allowable operating hours of mining set forth by Section 4.8.12.A of the County's Zoning Code. However, in compliance with Appendix G of the CEQA Guidelines, the proposed project may still potentially generate noise levels that exceed Sacramento County's nighttime noise standard. As such, the County's daytime noise standards of 55 dBA L_{50} and 75 dBA L_{max} and nighttime noise standards of 50 dBA L_{50} and 70 dBA L_{max} would apply to the proposed project. Because multiple noise levels are applicable to the proposed project, the most conservative standards (i.e., County's nighttime noise standards) shall be used for the analysis.

ONSITE MINING-RELATED NOISE SOURCES

Onsite surface mining equipment would include water trucks, motor graders, bulldozers, front-end loaders, self-elevating scrapers, haul trucks, and the electric conveyor belt

system. Table 15-7 shows the reference noise levels corresponding to the equipment proposed for use at the project site. These noise levels were obtained from noise measurements conducted at various similar aggregate mining locations in recent years, including several other mining sites operated by the project applicant.

Table 15-7: Major Noise-Producing Equipment and Anticipated Noise Emission Levels

Equipment Type	Approximate Noise Level at 50 feet [dBA]	
	Maximum, L_{max}	Median, L_{50}
Excavating Equipment: (Combinations of loaders, scrapers, dozers, graders, haul truck, and water trucks)[1]	85	70
Electric Conveyors	65	60

Note: L_{50} = Percentile-Exceeded Sound Level; L_{max} = Maximum Sound Level; dBA = A-Weighted Decibels;

Median noise levels represent any one-hour period and assume continuous operation of the excavation equipment.

[1] The median level of 70 dB L_{50} is based on max (2 million ton per year) operations

Source: BAC 2025.

Including the 25-foot property line setback required by the County Zoning Code, the nearest residential structures to the proposed mining areas were observed to range from 260 to 730 feet from the proposed mining areas on the project site. These distances were used to predict worst-case excavation noise levels at the nearest residences.

Based on a sound level reduction of 6 dB per each doubling of distance from the excavation noise sources (standard spherical spreading of sound from a point source), the reference equipment noise levels reported in Table 15-7 were projected to the nearest residences identified on Figure 15-1. Table 15-8 shows the predicted noise exposure at the project property line and at each of the five nearest representative residential receptors evaluated in this study, the noise standards applied to each of the receptors, and the state of compliance with those standards. Distances in Table 15-8 are scaled from the approximate noise center of excavation operations when occurring in proximity to existing sensitive receptors.

Table 15-8: Predicted Noise Levels at Nearest Residences, Applicable Noise Standards, and Evaluation of Compliance with Noise Standards

Location[1]	Distance (ft)[2]	Nighttime Noise Standard (dBA)[3]		Project-generated Noise Levels		Noise Standards Exceeded (dBA)	
		L_{50}	L_{max}	L_{50}	L_{max}	L_{50}	L_{max}
P/L	50	70	90	70	85	No	No
R1	270	50	70	54	69	**Yes**	No
R2	730	50	70	45	60	No	No
R3	300	50	70	53	68	**Yes**	No
R4	260	50	70	54	69	**Yes**	No
R5	640	50	70	47	62	No	No

Notes: P/L = Property Line; L_{50} = Percentile-Exceeded Sound Level; L_{max} = Maximum Sound Level; dBA = A-Weighted Decibels

[1] See Figure 15-1 for receiver locations

[2] Distance scaled from the approximate noise center of excavation operations when occurring in proximity to existing sensitive receptors.

[3] Sacramento County Nighttime Noise Standard for Non-Transportation Noise

Source: BAC 2025.

As shown in Table 15-8, noise generated by the proposed project would expected to exceed the County's nighttime median noise standards of 50 dBA L_{50} at sensitive receptors R1, R3, and R4. However, the proposed project would not result in noise level exceeding the County's maximum nighttime noise level standard of 70 dBA L_{max}. Nighttime activities are not typical; however, mining operations beginning before 7 a.m. (i.e., 6:00 a.m.) would have the potential to result in noise levels exceeding the County's nighttime median noise standards.

Project-generated noise levels would range from 45 dBA to 54 dBA L_{50} and 62 dBA to 69 dBA L_{max} (see Table 15-8). Therefore, daytime operation would not result in noise levels exceeding the County's daytime noise standards of 55 dBA L_{50} and 75 dBA L_{max}.

IMPACTS RELATIVE TO BASELINE AMBIENT NOISE CONDITIONS

Baseline median ambient noise conditions in the vicinity of the nearest existing residences vary depending primarily on proximity to local roadways. In general, worst-case proposed project noise generation is predicted to range from being similar to baseline ambient conditions to being 5-10 dBA above ambient conditions at the nearest existing residences.

As shown in Figure 15-1, LT-1 is representative of existing ambient conditions at receptor R5 and LT-2 is representative of existing ambient conditions at receptor R4. Receptors R1, R2, and R3 are located in relatively close proximity to Elder Creek Road. LT-3 is located approximately 800 feet from Elder Creek Road and is representative of ambient conditions at these receptors. Table 15-9 compares the results of the ambient noise measurement survey (as shown in Table 15-2) to the modeled project-generated noise levels at receptors (as shown in Table 15-8).

Table 15-9: Existing Ambient Conditions and Project-Generated Noise Levels at Receptors (dBA)

Receptor	Baseline Ambient Noise Levels (6 am – 9 pm)		Project-generated Noise Levels	
	L_{50}	L_{max}	L_{50}	L_{max}
R1	55	75	54	69
R2	55	75	45	60
R3	45	74	53	68
R4	42	69	54	69
R5	43	63	47	62

Notes: dBA = A-weighted Decibels; LT = Long-Term; L_X = Percent-Exceedance Sound Levels; L_{max} = Maximum Sound Level

Source: Created by Ascent 2024

As shown in Table 15-9, the proposed project would result in L_{50} noise levels more than 5 dBA above existing ambient conditions at receptors R3 and R4. Based on input from the project applicant, surface mining activities are anticipated to occur in proximity to these existing residences for approximately 6 months during typical operational hours (6 a.m. to 9 p.m.). Although noise exposure at those residences would decrease as the surface mining equipment progresses deeper into the mine pits and as equipment moves further away from the residences, initial surface mining activities could result in substantial increases in ambient noise levels at receptors R3 and R4. As a result, this impact is considered potentially significant.

SUMMARY

The noise sources resulting from the proposed project would not result in a permanent, substantial increase in the existing ambient noise levels. However, surface mining-related noise generated by the proposed project would be expected to result in substantial short-term increases in ambient noise levels at receptors R3 and R4, which is considered as a potentially significant impact.

Although the 2016 Final EIR includes Adopted 2016 Final EIR Mitigation Measure NO-1 to mitigate for short-term noise levels associated with implementation of the approved project, that mitigation measure was prepared for specific location and receptor information that is not applicable to the proposed project. Therefore, Adopted 2016 Final EIR Mitigation Measure NO-1 would not apply to the proposed project.

Instead, the proposed project would implement New Mitigation Measure NO-2, which would require the construction of temporary noise barriers at least 8 feet in height in accordance with the requirements of County Code 4.8.14.A.5 (Noise Barriers) along the mining footprint boundary in the areas in proximity (i.e., within 500 feet) of the existing residences, as shown in Figure 15-2. The temporary noise barriers shall be constructed prior to commencement of surface mining activities within at least 500 feet from existing residences and may be removed once surface mining activities have recessed deep enough in the mining pit, such that the excavation equipment is completely shielded

from view of these residences. Implementation of New Mitigation Measure NO-2 would ensure that project-generated noise levels are reduced by approximately 5-10 dB, which would result in noise levels of up to 49 dBA L_{50} and 64 dBA L_{max} at adjacent sensitive receptors (FTA 2018: 49). The recessed mining equipment would meet Sacramento County's daytime and nighttime noise standards of 55 dBA L_{50} and 75 dBA L_{max}, and 50 dBA L_{50} and 70 dBA L_{max}, respectively. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The proposed project's contribution impacts related to exposing new or existing sensitive receptors to new non-transportation noise sources would not be substantial and the overall impact would remain **less than significant with mitigation incorporated**.

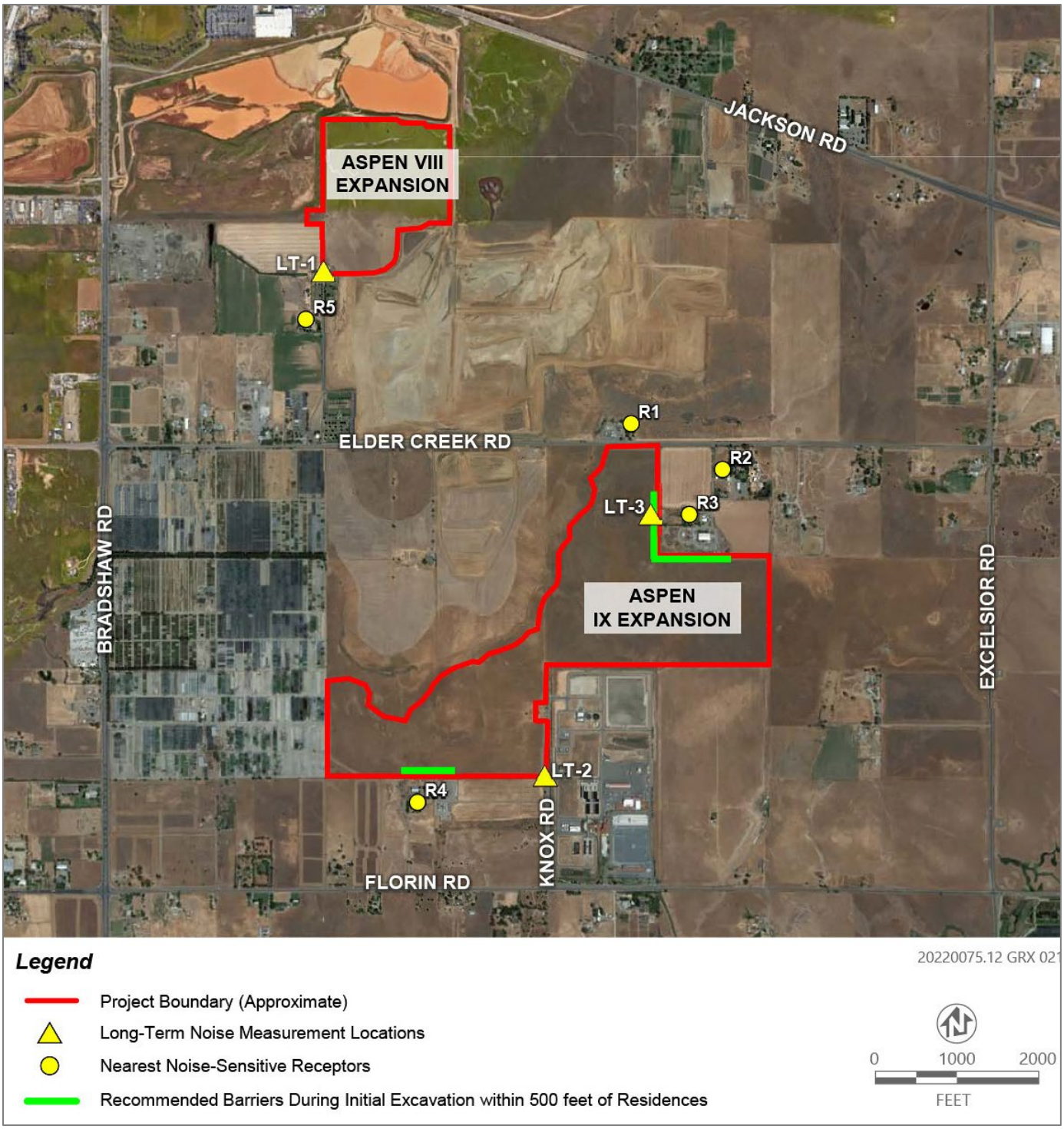
MITIGATION MEASURE

Implement New Mitigation Measure NO-2.

NEW MITIGATION MEASURE NO-2: SURFACE MINING-RELATED NOISE REDUCTION MEASURES

To minimize noise levels during surface mining-related activities, the project applicant shall comply with the following measure:

Surface mining activities occurring within 500 feet of any existing residence (R1, R3 & R4) shall be shielded by temporary noise barriers, such as earthen berms, constructed to a height of at least 8 feet, along the mining footprint boundary at the locations indicated in Figure 15-2 of this SEIR. In accordance with the requirements of County Code 4.8.14.A.5 (Noise Barriers), the temporary noise barriers shall be constructed to a minimum height (at least 8 feet) such that the line-of-sight between operating mobile mining equipment and nearby residences (R1, R3, and R4) is fully blocked. The temporary noise barriers shall be constructed prior to commencement of surface mining activities within at least 500 feet from existing residences and may be removed once surface mining activities have recessed deep enough in the mining pit, such that the excavation equipment is completely shielded from view of these residences. The temporary noise barriers would be adequate at reducing noise levels generated by the proposed project in these areas to less than 5 dBA over baseline ambient conditions.



Source: BAC 2025, Adapted by Ascent 2025.

Figure 15-2: New Mitigation Measure NO-2 – Temporary Noise Barriers Locations

IMPACT NO-2: GENERATE SUBSTANTIAL LONG-TERM MINING-RELATED VIBRATION

2016 FINAL EIR DETERMINATION

Based on the threshold established for the 2016 Final EIR, the 2016 Final EIR did not evaluate the approved project's potential to result in impacts related to long-term vibration. For this reason, the 2016 Final EIR did not include a significance determination for this issue area.

PROPOSED PROJECT IMPACT EVALUATION

The analysis assumes the adjacent sensitive receptors as *Category 2*, as defined in Table 15-3, for the purpose of quantifying the maximum-acceptable vibration criteria for human annoyance. In addition, the nearest sensitive receptor is assumed to be a typical residential building, which is defined as a non-engineered timber and masonry building by the FTA. As such, the analysis below shall apply the FTA's vibration standards for structural damage and human annoyance of 0.2 PPV and 72 VdB, respectively.

The proposed project would generate localized vibration in the immediate area of surface mining activities and haul truck operations. Vibration levels of proposed excavation equipment were obtained based on BAC modeling for the proposed project (Appendix H). Table 15-10 shows the reference vibration levels for the proposed equipment.

Table 15-10: Reference Vibration Source Levels for Proposed Equipment

Equipment	PPV, in/sec at 25 ft	VdB re 1 micro-inch/second at 25 ft
Excavation	0.089	87

Notes: PPV = Peak Particle Velocity; VdB = Vibration Decibels; ft = feet.

Source: FTA 2018.

The nearest residential receptor to the project site, represented as R4 on Figure 15-1, would be located approximately 260 feet from the proposed excavation operations at its closest point. Attenuation of vibration levels due to distance is based on Equations 7-2 and 7-3, found in the FTA noise and vibration manual (FTA 2018: 185). Assuming a reference vibration level of 0.089 PPV and 87 VdB at a distance of 25 feet, the computed vibration level at that nearest receptor would be 56 VdB and 0.003 PPV. It should be noted that as excavation deepens, vibration levels would decrease, with a similar reduction occurring as operations move farther from adjacent receptors. Vibration generated by the proposed project would comply with the FTA's human annoyance and structural damages vibration standards of 72 VdB and 0.2 PPV at the nearest sensitive receptors. Therefore, the proposed project would not result in long-term vibration impacts. Impacts would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

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16 PUBLIC SERVICES

INTRODUCTION

This chapter evaluates the potential impacts related to public services resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes existing public services and facilities, including fire protection, law enforcement, public schools, parks and recreation services, and libraries; discusses the applicable state and local regulations and policies related to public services; and assesses the potential for implementation of the proposed project to adversely affect these public services.

Comments related to public services received in response to the Notice of Preparation (NOP) include requests to evaluate consistency with the Sacramento County (County) General Plan and to ensure the development of a multi-use trail system along the future Knox/Vineyard Road extension and the Elder Creek corridor. The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, “Project Description,” the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

The project is located within the Urban Policy Area (UPA) and the Urban Services Boundary (USB) as designated by the Sacramento County General Plan (Sacramento County 2025). Pursuant to the Sacramento County General Plan, USB indicates the ultimate boundary of the urban area in the unincorporated County, while the UPA defines the area expected to receive urban levels of public infrastructure and services within a 20-year planning period. To receive urban public services, land must be within both the UPA and USB.

FIRE PROTECTION AND EMERGENCY RESPONSE

The project site is within the service area of the Sacramento Metropolitan Fire District (Metro Fire). Metro Fire is a special district that serves a population of over 720,000 in a 359-square-mile service area within Sacramento County (Metro Fire 2024). In 2013,

Metro Fire issued the Fire Department Growth Analysis, which reviewed the number and location of new fire stations that would be required to meet First Due and First Alarm response requirements (for areas that have over 1,000 people per square mile, the standard travel time is 4 minutes with an overall reflex time of 7 minutes), taking into consideration the various planning areas where development is proposed. As a special district, Metro Fire is governed by a Board of Directors; each member is elected by the voters within a geographical area, or division, of Metro Fire's operational area. Operations include Fire and Rescue, Emergency Medical, Training and Safety, Special Operations, Homeland Security, Fire Investigation, and Health and Wellness Divisions.

Metro Fire uses a response standard of 4 minutes for First Due travel time with an overall reflex time of 7 minutes. The performance standard for an "Effective Response Force" to a building fire incident is to have three engines, one ladder truck, and one battalion chief to the incident within 8 minutes (Metro Fire 2018). The nearest fire station is Station 55 located on Excelsior Road, approximately 1.8 miles southeast of the project site.

Law Enforcement

The project site is within the service area of the Sacramento County Sheriff's Department (SSD), which provides law enforcement services in the unincorporated county. Local law enforcement services include response to calls for service and trouble spots, investigations, surveillance, and routine patrolling. Demand for law enforcement services grows with population. The County maintains a goal of having one sheriff's deputy per 1,000 residents (Sacramento County 2010). The nearest SSD substation is the Kilgore Station East Division, which is located approximately 6 miles northeast of the project site in Rancho Cordova. SSD staff assigned to the substation provide general law enforcement services to Rancho Cordova, Rosemont, Lincoln Village, Gold River, Mather, and Butterfield-Riviera East. The East Division provides patrol, investigative, Problem Oriented Policing, report writing, crime prevention, and crime analysis functions (SSD 2024).

Schools

The project site is within the service area of the Elk Grove Unified School District (Elk Grove USD). The Elk Grove USD covers 320 square miles and includes the communities of Florin, Franklin, Laguna Creek, Laguna West, Rancho Murieta, Sheldon, Sloughhouse, Valley Hi, Vineyard, Wilton, the city of Elk Grove, and parts of the cities of Sacramento and Rancho Cordova. Elk Grove USD operates 43 elementary schools, nine middle schools, nine comprehensive high schools, five alternative education schools, one charter school, one virtual online K-8 program, one special education school, and one adult education school (Elk Grove USD 2024). During the 2023-2024 school year, the Elk Grove USD had a total enrollment of 63,297 students (CDE 2024).

Parks and Recreation Services

The project site is located within the Southgate Recreation and Park District (Southgate or SRPD). The SRPD serves approximately 120,000 residents of the 52-square mile unincorporated South Sacramento community that lies east of Sacramento, south of Rancho Cordova, and north of Elk Grove. Southgate is an independent, special district that is governed by an elected five-member board of directors. Southgate currently maintains 47 parks, six community centers, two aquatic facilities, and numerous landscape corridors and nature preserves (SRPD 2024a). The closest Southgate parks to the project site are Dunmore Park Preserve Area and the Don & Brenda Nottoli Community Park, located approximately 1.5 miles southeast and southwest, respectively. The Don & Brenda Nottoli Community Park offers 14 acres of community parkland equipped with playground features, sports fields, picnic shelters, and a dog park. The Dunmore Park Preserve Area is an actively managed habitat preserve. Although public access to the preserve is limited, the open space provides some passive recreation opportunities.

As established by requirements of mitigation from the approved project, the Elder Creek Preserve (Preserve) is a corridor that includes floodways and uplands to Elder Creek and bisects the project site, separating the existing Aspen IX site from the Aspen IX Expansion Area (see Figure 2-3 in Chapter 2, “Project Description,” of this SEIR). The Preserve is 92 acres and will ultimately consist of a multi-mile pedestrian, bicycle, and equestrian network, adjacent to Elder Creek, linking to parks and other trail networks in the Florin-Vineyard Area. Additionally, the Preserve is located within a 100-year floodplain and is designed to contain and buffer floodwaters along Elder Creek. The Preserve is jointly operated by the Sacramento County Department of Water Resources and Southgate (SRPD 2024b).

Libraries

The Sacramento Public Library System (SPLS), operated by the Sacramento Public Library Authority, provides library services to the residents of Sacramento County as well as the incorporated cities of Sacramento, Elk Grove, Rancho Cordova, Citrus Heights, Galt, and Isleton. The library system is comprised of interdependent branches providing services to all residents. SPLS includes 28 locations and serves approximately 1.4 million residents. Branches are grouped by services, geography, and usage patterns to provide efficient and economical services to the residents of the county. The nearest library to the project site is the Rancho Cordova Community Library, located approximately 3.6 miles north along Folsom Boulevard.

The Library Facility Master Plan for SPLS sets forth general standards and criteria for the renovation and construction of all new libraries (Sacramento Public Library Authority 2007). Existing and future library needs are largely population driven (e.g., for every 30,000 residents in a community, at least one full-service library is required). Ideally, new libraries provide 0.4 to 0.6 square feet per capita. The Facility Master Plan indicates that the Vineyard area will require two to three new library facilities to serve anticipated growth. The Library Facility Master Plan identifies these new branches as

planned for construction in 2015 and 2025. Although no Vineyard branch has yet been developed, the 2023 Facilities Vision Plan continues to identify a new library in the Vineyard area (Sacramento Public Library Authority 2023).

Regulatory Setting

Federal

There are no federal regulations that pertain to public services for this project.

State

Leroy F. Greene School Facilities Act

The Leroy F. Greene School Facilities Act of 1998 established a State program to provide per-pupil funding for new construction and modernization of existing school facilities. The act limits the power of cities and counties to require mitigation of school facilities as a condition of approving new development and authorizes school districts to assess fees (at various levels) to directly offset the costs associated with increased capacity as a result of new development.

California Government Code Section 66477

California Government Code Section 66477 (Quimby Act) allows local governments to exact land dedications or in lieu fees for park purposes from new subdivisions. The law prescribes a standard consistent with the circumstances of each park district based on a minimum of 3 acres and a maximum of 5 acres per 1,000 residents. Sacramento County's Office of Planning and Environmental Review oversees these requirements in the unincorporated area. SRPD establishes its standards for park and trail improvements and facilities.

Regional

Sacramento Area Council of Governments

The Sacramento Area Council of Governments (SACOG) is an association that includes the Counties of El Dorado, Placer, Sacramento, Sutter, Yolo, and Yuba. As a metropolitan transportation organization, SACOG is required to prepare a long-range transportation plan (the metropolitan transportation plan) for all modes of transportation, including bicycle and pedestrians, every four years for the six-county area. SACOG also assists in planning for bicycle networks.

Regional Bicycle, Pedestrian, and Trails Master Plan

SACOG approved the *Regional Bicycle, Pedestrian, and Trails Master Plan* in April 2015. The plan envisions a complete transportation system that supports healthy living and active communities where bicycling and walking are viable and popular travel choices in a comprehensive, safe, and convenient network (SACOG 2015). The goals

of the *Regional Bicycle, Pedestrian, and Trails Master Plan* inform the goals set forth in the County Active Transportation Plan. The *Regional Bicycle, Pedestrian, and Trails Master Plan* is intended to guide the long-term decisions for the Bicycle and Pedestrian Funding Program. The projects included in the plan are regionally significant projects that require at least partial regional funding. This plan is not fiscally constrained, so it contains at least 20 years' worth of projects.

SACRAMENTO REGIONAL TRAIL NETWORK ACTION PLAN

The Sacramento Region Trail Network Action Plan was adopted by SACOG in July 2022 (SACOG 2022). It establishes a vision for walking, biking, and rolling throughout the region by planning for a network of trails that reaches key destinations and closes existing gaps. The Sacramento Region Trail Network Action Plan establishes the baseline environment, identifies a proposed network of facilities, and sets forth goals for the regional trail network. The Regional Trail Network Action Plan prioritizes trails that would help meet regional goals, many of which are in Sacramento County and are included in the County Active Transportation Plan.

LOCAL

SACRAMENTO COUNTY 2030 GENERAL PLAN

The following 2030 General Plan policy would apply to the proposed project:

- **Policy PF-122.** To help assure that local recreation and park district Master Plan standards for levels of service may be achieved and maintained, the County may require new development to dedicate land, pay in-lieu fees, development impact fees, or otherwise contribute a fair share to the acquisition and development of parks and recreation facilities. For development in infill areas where land dedication may not be practical, the County in cooperation with the affected park district may explore creative alternatives for providing park and recreation facilities.

COMMUNITY PLANS

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project because the project site is located within the plan area.

VINEYARD COMMUNITY PLAN

The Vineyard Community Plan does not contain policies related to public services that would apply to the proposed project.

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

Based on Appendix G of the State CEQA Guidelines, impacts to public services would be significant if implementation of the proposed project would:

- result in substantial adverse physical impacts associated with the provision of emergency services and fire protection services;
- result in substantial adverse physical impacts associated with the provision of law enforcement services;
- result in substantial adverse physical impacts associated with the provision of public school services;
- result in substantial adverse physical impacts associated with the provision of park and recreation services, or result in substantial physical deterioration of an existing facility due to increased use; or
- result in substantial adverse physical impacts associated with the provision of library services.

Issues Not Discussed Further

Fire and Police Protection

The 2016 Final EIR determined that implementation of the approved project would not substantially increase demand for emergency services and, thus, would not cause substantial adverse physical impacts, such as require construction of a new fire or police station, as a result of providing adequate service. The 2016 Final EIR determined that impacts related to emergency services, including fire and police protection services, would be less than significant (Impact Evaluation PS-7).

Similar to the approved project, the proposed project is not a residential development and, therefore, would not result in population growth that would increase demand for fire and/or police protection services. While implementation of the proposed project would extend the duration of surface mining operations and reclamation compared to the approved project, the proposed project would not increase employment levels or generate new employee or truck trips, which would indirectly increase demand for police and/or fire protection services. Furthermore, the project site is located adjacent to the approved project site and would not add a new area into the Metro Fire or SSD's service areas. Therefore, implementation of the proposed project would not result in adverse physical impacts related to the provision of fire or police protection services. As such, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

Schools

The 2016 Final EIR concluded that the approved project would not require the use of public schools services and, therefore, would not cause substantial adverse physical impacts to schools. Therefore, this issue did not warrant detailed analysis in the 2016 Final EIR because no impact would occur (Impact Evaluation PS-8).

The proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres and would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the

existing Mining Use Permit, which ends in 2031. Because the proposed project would be a surface mining project similar to the approved project with no residential component and would not increase employment levels, implementation of the proposed project would not affect existing or future school enrollment or capacity numbers. Therefore, implementation of the proposed project would not result in adverse physical impacts related to the provision of schools. As such, implementation of the proposed project would not change the conclusion of the 2016 Final EIR and no impact would occur. No further analysis is warranted in this SEIR.

LIBRARIES AND OTHER PUBLIC FACILITIES

The 2016 Final EIR did not evaluate the approved project's effect on libraries and other public facilities; however, the 2016 Final EIR did evaluate the potential for the approved project to affect other public services, such as police and fire protection services and schools, based on population growth and demand (Impact Evaluations PS-7 and PS-8). Because the approved project does not include a residential component and, thus, would not induce population growth, the 2016 Final EIR determined that implementation of the approved project would not increase demand on public services, as discussed above.

Similar to the approved project, the proposed project is not a residential development and, therefore, would not result in population growth that would increase demand for libraries and other public services. While implementation of the proposed project would extend the duration of surface mining operations and reclamation compared to the approved project, the proposed project would not increase employment levels and, therefore, would not indirectly increase demand on libraries or other public services within the project area. As such, implementation of the proposed project would not result in adverse physical impacts related to the provision of libraries or other public services. No further analysis is warranted in this SEIR.

METHODOLOGY

Evaluation of potential parks and recreation service impacts are based on applicable County policies, review of applicable documents and regulations, and comparing impacts associated with the approved project against those assessed for the proposed project.

IMPACTS AND ANALYSIS

IMPACT PS-1: RESULT IN SUBSTANTIAL ADVERSE PHYSICAL IMPACTS ASSOCIATED WITH THE PROVISION OF PARKS AND RECREATION SERVICES OR SUBSTANTIAL PHYSICAL DETERIORATION OF AN EXISTING FACILITY

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that, because excavation of the Aspen VIII and IX mining areas could preclude Southgate's ability to provide the planned multi-use trail for the area as depicted in the Southgate Master Trails Plan, implementation of the

approved project would result in a potentially significant impact to parks and recreation services. Although the approved project included a trail easement as part of the approved project's reclamation plan, the 2016 Final EIR included Mitigation Measure PS-1, which required the project applicant to dedicate and improve a 20-foot easement for the multi-use trail along Elder Creek prior to issuance of a work authorization permit and signoff of the reclamation plan. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure PS-1 (Impact Evaluation PS-9). The requirements of Mitigation Measure PS-1 have been met by the project applicant in May 2017.

PROPOSED PROJECT IMPACT EVALUATION

While the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres, the proposed project would not conflict with the existing 20-foot easement for the multi-use trail along Elder Creek within the existing Aspen IX mining area established by the approved project through implementation of Adopted 2016 Final EIR Mitigation Measure PS-1. Once final reclamation of the project site is complete, the proposed project would not preclude the construction and use of the multi-use trail as depicted in the Southgate Master Trails Plan and dedicated by Adopted 2016 Final EIR Mitigation Measure PS-1. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. This impact would be reduced under the proposed project compared to the approved project as the requirements of Adopted 2016 Final EIR Mitigation Measure PS-1 have been met by the project applicant in May 2017. As such, the proposed project's contribution to this impact would not be substantial and the overall impact would be reduced to **less than significant**.

MITIGATION MEASURES

No mitigation is required.

17 TRANSPORTATION

INTRODUCTION

This chapter evaluates the potential transportation impacts resulting from implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). It describes the applicable federal, state, and local transportation regulations and policies; discusses the existing roadway network and transportation facilities within the project area; and analyzes the potential impacts from project implementation on the transportation system. The analysis in this chapter is based on the analyses and findings of the *Aspen VIII & IX Mining Use Permit Amendment Traffic Evaluation Memo* prepared by Fehr & Peers (2024), presented in Appendix I of this SEIR.

Pursuant to Senate Bill (SB) 743, Public Resources Code Section 21099, and California Code of Regulations Section 15064.3(a), generally, vehicle miles traveled (VMT) is the most appropriate measure of transportation impacts and a project's effect on automobile delay shall no longer constitute a significant impact under CEQA.

Comments related to transportation received in response to the Notice of Preparation (NOP) included requests to evaluate consistency with the Sacramento County (County) General Plan and to ensure the development of a multi-use trail system along the future Knox/Vineyard Road expansion and the Elder Creek corridor. The NOP and comments received on the NOP are presented in Appendix A.

ENVIRONMENTAL SETTING

As described in Chapter 2, "Project Description," the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed.

ROADWAY SYSTEM

County roadways are classified as freeways, thoroughfares, arterials, collectors, and local streets. A description of each, as described in the County General Plan, is provided below (Sacramento County 2022a: 7-8):

- **Freeways** are multilane divided highways with a minimum of two lanes for the exclusive use of traffic in each direction and full control of access without traffic interruption. Freeways provide for high-speed through-traffic movement on continuous routes. Freeways connect points within the county and link the county to other parts of the state.
- **Thoroughfares** provide for mobility within the county, carrying through traffic on continuous routes and providing transportation links between major residential, employment, commercial, and retail areas.
- **Arterials** provide for a link between thoroughfares with their limited access and through movement capacity and collectors which have greater access and serve local streets. Arterials can also provide mobility and direct access within commercial and retail corridors through two-way left-turn lanes.
- **Collectors** provide for mobility within communities and connect local roads to thoroughfares and arterials.
- **Local streets** provide direct access to abutting property and connect with other local roads and collectors. Local streets are typically developed as two-lane undivided roadways.

Existing Roadways

The following key roadways provide regional and local access to the project site:

- **US 50** is an east-west freeway that extends from the I-80 junction in West Sacramento to Canal Street in the city of Placerville where it continues as a highway across the Sierra Nevada to South Lake Tahoe and Nevada.
- **SR 16**, also referred to as Jackson Road, is a thoroughfare that generally travels west-northwest to east-southeast from Folsom Boulevard to the west into Amador County to the east. It is generally a two-lane roadway with some wider widths provided at intersections.
- **Bradshaw Road** is a north-south arterial roadway west of the project site. To the north, Bradshaw Road provides access to US 50, Folsom Boulevard, and the City of Rancho Cordova. To the south, Bradshaw Road continues to Grant Line Road in the city of Elk Grove. Bradshaw Road has two to six through lanes.
- **Elder Creek Road** is an east-west collector roadway with two to four through lanes that divides the project site, with Aspen VIII located north of Elder Creek Road and Aspen IX located south of Elder Creek Road. There is an existing access point to the existing Aspen VIII mining area from Elder Creek Road, which would be used to access the proposed Aspen VIII Expansions Area under the proposed project. No new site access points to the project site would be provided from Elder Creek Road with implementation of the proposed project. To the west, Elder Creek Road extends to Stockton Boulevard where it becomes 47th Avenue. To the east, Elder Creek Road extends to Excelsior Road.

- **Knox Road** is a north-south local roadway with two lanes and southbound turn pockets. Knox Road abuts and dead ends into the Aspen IX site. The project would establish a new site access point along Knox Road to allow employees to access the Aspen IX Expansion Area.
- **Excelsior Road** is a two lane north-south minor collector roadway located east of the project site. The roadway becomes Mather Boulevard north of the Independence at Mather community. To the south, Excelsior Road extends to Sheldon Road in the city of Elk Grove.
- **Florin Road** is an east-west arterial roadway south of the project site. To the west, Florin Road terminates at Riverside Boulevard in the Pocket area of the city of Sacramento. It provides access to SR 99 and I-5. To the east, Florin Road extends to Sunrise Boulevard. Florin Road has two to six through lanes.

Transit System

The Sacramento Regional Transit District (SacRT) operates over 85 bus routes (fixed-route, seasonal routes, micro-transit, and dial-a-ride), 44 miles of light rail, and Americans with Disabilities Act paratransit services within a 440-square-mile service area throughout Sacramento County. Buses operate daily from 5:00 a.m. to 11:00 p.m. every 15 to 60 minutes, depending on the route. Light rail transit (LRT) trains begin operation at 4:00 a.m. with service every 15 minutes during the day and every 30 minutes in the evening. Blue Line and Gold Line trains operate daily until approximately 12:30 a.m., and Green Line trains only operate Monday through Friday (SacRT 2024a). Passenger amenities include 53 LRT stations, 30 bus and light rail transfer centers, and 22 free park-and-ride lots. SacRT also serves over 3,200 bus stops throughout Sacramento County (SacRT 2024a).

SacRT Gold Line LRT service is located parallel to Folsom Boulevard approximately 3.5 miles northwest of the project site. Nearby stations include College Greens, Watt/Manlove, Starfire, Tiber, and Butterfield from west to east. SacRT also contracts with the City of Rancho Cordova to operate the Rancho CordoVan shuttle services. Three routes serve the local communities in Rancho Cordova: Route 175, Route 176, and Route 177. The Rancho CordoVan stop that is nearest to the project site is located on Justinian Drive, approximately 6.5 miles northeast of the project site.

Elk Grove Commuter Route E19 operates on weekdays and runs northeast from Laguna and Harbor Point to Butterfield LRT along Bradshaw Road, approximately 0.5 miles west of the project site. Table 17-1 includes additional information about Route E19.

Table 17-1: SacRT Bus Route E19 Schedule Summary

Route	Weekday Frequency and Span	Saturday, Sunday, and Holidays
Laguna & Harbor Point to Butterfield LRT	• 3 morning buses approximately every 60 minutes starting at 4:45 a.m. • 1 afternoon bus at 3:30 p.m.	No service
Butterfield LRT to Laguna & Harbor Point	• 1 morning bus at 5:45 a.m. • 3 afternoon buses approximately every 60 minutes starting at 2:45 p.m.	No service

Note: Schedule time span noted to the nearest 15 minutes.

Source: SacRT 2024b.

Bicycle System

The bicycle system in the county is composed of bikeways and shared use paths along with amenities that improve safety, comfort, and convenience for people biking. The County Active Transportation Plan classifies bicycle facilities into the following types (Sacramento County 2022b: 50):

- **Shared-Use Paths (Class I)**: Dedicated paths for walking and bicycling completely separate from the roadway.
- **Bicycle Lanes (Class II)**: Striped lanes for bicyclists. Bicycle lanes can also include striped “buffer” areas between the bicycle and travel lane or between the bicycle lane and parked cars (sometimes both).
- **Buffered Bicycle Lane (Class IIB):** Bicycle lanes that include a striped “buffer” area either between the bicycle lane and the travel lane or between the bicycle lane and parked cars (sometimes in both locations).
- **Bicycle Routes (Class III)**: Signed routes for bicyclists on low-speed, low-volume streets where roadway space is shared with motorists.
- **Bicycle Boulevard (Class IIIB)**: Routes on low-speed, low-volume streets where roadway space is shared with people driving, enhanced with traffic calming features or other treatments to prioritize the comfort of people biking.
- **Separated Bikeway (Class IV)**: On-street bicycle facilities with a physical barrier between the bicycle lane and motor vehicle lane(s). Barriers can include bollards, curbs, elevation, or parking. These facilities may be bidirectional or unidirectional.

As of 2022, the unincorporated county’s bicycle system was comprised of approximately 304 miles of bicycle facilities including approximately 64 miles of shared-use paths, 224 miles of bicycle lanes, 2 miles of buffered bicycle lanes, and 14 miles of bicycle routes. There are Class II bicycle lanes present along Bradshaw Road approximately 0.5 miles west of the project site. The County Active Transportation Plan recommends 108 miles of upgraded bicycle facilities and 1,110 miles of new dedicated bicycle corridors totaling 1,522 miles of recommendations across unincorporated Sacramento County (Sacramento County 2022b: 104).

Recommended bicycle facilities in the vicinity of the project site include Class IIB buffered bicycle lanes along Bradshaw Road between Calvine Road and Elder Creek Road, Class II bicycle lanes along Elder Creek Road, and Class I shared-use paths between Bradshaw Road and Excelsior Road and between Gerber Road and Elder Creek Road (Sacramento County 2022b: 105-106). In addition, the Active Transportation Plan recommends additional study of a Class IV separated bikeway along Florin Road between Watt Avenue and Excelsior Road (Sacramento County 2022b: 105-106).

Pedestrian System

The pedestrian system in the county is composed of sidewalks and shared-use paths. The County Active Transportation Plan classifies pedestrian facilities into the following four types (Sacramento County 2022b: 39):

- **Vertical Curbs**: Curbs rise straight up to the sidewalk level and are the current standard within Sacramento County.
- **Rolled Curbs**: Curbs are sloped and can allow vehicles to encroach onto the sidewalk, providing more roadway width at the expense of pedestrian pathway conflicts.
- **Attached Sidewalks**: Connect directly to the curb and provide minimal lateral separation from the roadway.
- **Detached Sidewalks**: Separated from the curb with a buffer area, typically a planting strip or special paving material to provide greater separation from the roadway.

As of 2022, there were approximately 1,100 miles of roads throughout the unincorporated county. Approximately 13 percent of these roads had sidewalks on both sides of the street, 21 percent had sidewalks on one side of the street, and 66 percent of streets had no sidewalks (Sacramento County 2022b: 40). There is a sidewalk along a segment of Bradshaw Road between Elder Creek Road and Florin Road approximately 0.5 miles west of the project site.

Regulatory Setting

Federal

There are no federal regulations that pertain to transportation for this project.

State

California Department of Transportation

The California Department of Transportation (Caltrans) is the state agency responsible for the design, construction, maintenance, and operation of the California State Highway

System, as well as the segments of the Interstate Highway System that lie within California. Caltrans District 3 is responsible for the operation and maintenance of SR 16 north of the project site. Caltrans requires a transportation permit for any transport of heavy construction equipment or materials that necessitates the use of oversized vehicles on state highways.

TRANSPORTATION IMPACT STUDY GUIDE

The Caltrans Transportation Impact Study Guide (TISG) was prepared to provide guidance to Caltrans Districts, lead agencies, tribal governments, developers, and consultants regarding Caltrans' review of a land use project or plan's transportation analysis using a VMT metric. This guidance is not binding on public agencies, and it is intended to be a reference and informational document. The TISG replaces the Guide for the Preparation of Traffic Impact Studies and is for use with local land use projects, not for transportation projects on the State Highway System (Caltrans 2020).

CALIFORNIA CODE OF REGULATIONS SECTION 15064.3

On December 28, 2018, State CEQA Guidelines Section 15064.3 was introduced to address the determination of significance for transportation impacts. State CEQA Guidelines Section 15064.3 mandates that transportation analyses be based on VMT rather than congestion metrics, such as level of service. The shift in focus was a direct response to legislation, notably SB 743, passed in 2013, that required the Governor's Office of Land Use and Climate Innovation (formerly the Governor's Office of Planning and Research [OPR]) to develop new State CEQA Guidelines that address traffic metrics under CEQA.[1] As stated in the legislation, upon adoption of the new guidelines, "automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion shall not be considered a significant impact on the environment pursuant to this division, except in locations specifically identified in the guidelines, if any." Following approval by the Office of Administrative Law, the updated State CEQA Guidelines took effect statewide on July 1, 2020, implementing the provisions outlined in State CEQA Guidelines Section 15064.3. As a result, VMT analysis has become a crucial component of project evaluations under CEQA. Therefore, VMT is considered in the analysis of this project.

In December 2018, OPR published the most recent version of the Technical Advisory on Evaluating Transportation Impacts in CEQA (Technical Advisory), which provides guidance for VMT analysis. The Technical Advisory provides guidance related to screening thresholds for small projects to indicate when detailed analysis is needed or if a project can be presumed to result in a less-than-significant VMT impact. The Technical Advisory notes that projects that generate or attract fewer than 110 trips per day generally may be presumed to result in a less-than-significant transportation impact, absent substantial evidence indicating otherwise (OPR 2018). Section 15064.3(b)(3),

[1] On July 1, 2024, OPR was renamed the Governor's Office of Land Use and Climate Innovation. However, this section uses OPR as the Technical Advisory on Evaluating Transportation Impacts in CEQA was prepared under OPR's name.

Qualitative Analysis, states that if existing models or methods are not available to estimate the VMT for the particular project being considered, a lead agency may analyze the project's VMT qualitatively. Additionally, as detailed in the Technical Advisory, "active transportation projects generally reduce VMT and therefore are presumed to cause a less-than-significant impact on transportation" (OPR 2018: 23).

California Fire Code

The 2022 California Fire Code, which is codified at Part 9 of Title 24 of the California Code of Regulations, incorporates by adoption the 2021 International Fire Code and contains regulations related to construction, maintenance, access, and use of buildings. Topics addressed in the California Fire Code include design standards for fire apparatus access (e.g., turning radii, minimum widths), standards for emergency access during construction, provisions intended to protect and assist fire responders, and several other general and specialized fire-safety requirements for new and existing buildings and the surrounding premises. The California Fire Code contains specialized technical regulations related to fire and life safety. The California Fire Code is revised and published every three years by the California Building Standards Commission.

Regional

Sacramento Area Council of Governments

The Sacramento Area Council of Governments (SACOG) is an association that includes the Counties of El Dorado, Placer, Sacramento, Sutter, Yolo, and Yuba. As a metropolitan transportation organization, SACOG is required to prepare a long-range transportation plan (the metropolitan transportation plan) for all modes of transportation, including public transit, automobile, bicycle, and pedestrians, every four years for the six-county area. SACOG also assists in planning for transit, bicycle networks, clean air, and airport land uses.

Metropolitan Transportation Plan/Sustainable Communities Strategy

SACOG is responsible for preparing and updating the Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS) and the corresponding Metropolitan Transportation Improvement Program (MTIP) for the six-county Sacramento region. The purpose of the MTP/SCS is to establish regional access and identify mobility goals; identify present and future transportation needs, deficiencies, and constraints within the transportation system; analyze potential solutions; estimate available funding; and propose investments. On November 18, 2019, the SACOG Board of Directors adopted the 2020 update to the MTP/SCS (SACOG 2019). The next update to the MTP/SCS is scheduled for 2025.

Metropolitan Transportation Improvement Program

SACOG prepares and adopts the MTIP approximately every two years. The MTIP is a short-term listing of surface transportation projects that receive federal funds, are subject to federally required action, or are regionally significant. SACOG adopted the 2023-2026 MTIP in September 2022. The 2023-2026 MTIP covers four years of programming:

federal fiscal years 2023-2026. The project listing in the MTIP provides a detailed description for each individual project in the 2023-2026 MTIP, including those in Sacramento County.

REGIONAL BICYCLE, PEDESTRIAN, AND TRAILS MASTER PLAN

SACOG approved the *Regional Bicycle, Pedestrian, and Trails Master Plan* in April 2015. The plan envisions a complete transportation system that supports healthy living and active communities where bicycling and walking are viable and popular travel choices in a comprehensive, safe, and convenient network (SACOG 2015). The goals of the *Regional Bicycle, Pedestrian, and Trails Master Plan* inform the goals set forth in the County Active Transportation Plan. The *Regional Bicycle, Pedestrian, and Trails Master Plan* is intended to guide the long-term decisions for the Bicycle and Pedestrian Funding Program. The projects included in the plan are regionally significant projects that require at least partial regional funding. This plan is not fiscally constrained, so it contains at least 20 years' worth of projects.

SACRAMENTO REGIONAL TRAIL NETWORK ACTION PLAN

The Sacramento Region Trail Network Action Plan was adopted by SACOG in July 2022 (SACOG 2022). It establishes a vision for walking, biking, and rolling throughout the region by planning for a network of trails that reaches key destinations and closes existing gaps. The Sacramento Region Trail Network Action Plan establishes the baseline environment, identifies a proposed network of facilities, and sets forth goals for the regional trail network. The Regional Trail Network Action Plan prioritizes trails that would help meet regional goals, many of which are in Sacramento County and are included in the County Active Transportation Plan.

SACRAMENTO REGIONAL TRANSIT DISTRICT STRATEGIC PLAN

The SacRT Strategic Plan outlines the highest priority projects that the agency will work on over the 2021-2025 fiscal years. The plan includes SacRT's mission, vision, and values; annual goals; specific work plan tactics; and introduces a comprehensive performance scorecard system that will be used to monitor organizational and division performance on a quarterly basis (SacRT 2020).

LOCAL

SACRAMENTO COUNTY 2030 GENERAL PLAN

The Circulation Element of the General Plan provides the framework for County decisions concerning the countywide transportation system, which includes various transportation modes and related facilities (Sacramento County 2022a). The Circulation Element also identifies measures to establish and support an integrated and balanced multi-modal transportation system. There are no General Plan policies related to transportation that are applicable to the project.

TRANSPORTATION ANALYSIS GUIDELINES

The Transportation Analysis Guidelines (TAG) were adopted by the County Board of Supervisors in October 2020. As detailed above, a project's effect on automobile delay is no longer a consideration when identifying a significant impact under CEQA; thus, the portions of the TAG not directly applicable to CEQA are not included here. The TAG outlines screening criteria by which projects may be exempt from VMT analysis and provides methodologies to analyze a project's VMT if screening criteria are not met (Sacramento County 2020). If a project meets the County screening criteria, a detailed CEQA transportation analysis would not be required. Table 17-2 presents the screening criteria for projects that are expected to result in a less-than-significant VMT impact.

Table 17-2: County Screening Criteria for CEQA Transportation Analysis for Development Projects

Project Type	Screening Criteria
Small Projects	Projects generating less than 237 average daily traffic (ADT)
Local-Serving Retail[1]	• 125,000 square feet of total gross floor area or less in an infill setting; OR 200,000 square feet of total gross floor area or less in a greenfield setting; OR if supported by a market study with a capture area of 3 miles or less; AND • Local Serving: Project does not have regional-serving uses as shown in Appendix A [of the County TAG]
Local-Serving Public Facilities/Services	• Day care center • Public K-12 schools • Neighborhood park (Developed or undeveloped) • Community center • Post offices • Police and fire facilities • Libraries • Government offices (Primarily serving customers in-person) • Utility, communications, and similar facilities • Water sanitation, waste management, and similar facilities
Projects in VMT-Efficient Areas	• Residential located in a VMT Efficient Area: Based on an approved screening map • Office/Business Professional Employment Project Located in a VMT Efficient Area: Based on an approved screening map. • Industrial Employment Project Located in a VMT Efficient Area: Based on an approved screening map
Projects Near Transit Stations	• High-Quality Transit: Located within ½ mile of an existing major transit stop[2] or an existing stop along a high-quality transit corridor[3]; AND • Minimum Gross Floor Area (FAR) of 0.75 for office projects or components; AND • Parking: Does not include substantially more parking than required[4], such that it discourages transit use by making it too convenient to drive; AND • Affordable Housing: Does not replace affordable residential units with a smaller number of moderate- or high-income residential units; AND • Active Transportation: Project does not negatively impact transit, bike, or pedestrian infrastructure
Affordable Residential Projects	• Affordability: Screening criteria only apply to the affordable units; AND • Parking: Does not include substantially more parking than required[4], such that it discourages transit use by making it too convenient to drive; AND • Transit Access: Project has access to transit within ½ mile walking distance, AND • Active Transportation: Project does not negatively impact transit, bike, or pedestrian infrastructure.

[1] See Appendix A of the TAG for land use types considered to be retail.

[2] Defined in the Public Resources Code Section 21064.3 ("Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods").

[3] Defined in the Public Resources Code Section 21155 ("For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours").

[4] Sacramento Couty Zoning Code Chapter 5: Development Standards.

Source: Sacramento County 2020: Table 3-1.

Active Transportation Plan

The 2022 Active Transportation Plan for unincorporated Sacramento County is the guiding document for achieving the County's goal of building a balanced transportation system that supports and encourages active modes of travel. The Active Transportation Plan analyzes existing conditions and provides policy, program, and infrastructure recommendations to improve active transportation within the unincorporated county (Sacramento County 2022b). Note that the 2022 Active Transportation Plan replaced the Sacramento County Bicycle Master Plan (2011) and the Sacramento County Pedestrian Master Plan (2007).

County Code of Ordinances

Chapter 10 of the Sacramento County Code addresses vehicles, parking, and traffic. Chapter 16 provides regulations related to building and construction, and Chapter 17 provides regulations related to fire prevention including the County's adoption of the 2022 California Fire Code.

Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the project because the project site is located within the plan area.

Vineyard Community Plan

The Vineyard Community Plan, which was developed in 1985, provides guidance for growth and development in the community planning area. The following Vineyard Community Plan policy applies to the project (Sacramento County 1985):

- **Commercial/Industrial, Goals and Objectives 1:** To develop industrially designated areas in a manner that minimizes negative impacts upon the Vineyard Community.

Standard Construction Specifications

The Sacramento County Standard Construction Specifications establish guidelines to ensure transportation safety and design standards during construction and operations. The Sacramento County Standard Construction Specifications provide requirements for safe work zones, including signage, barricades, and detours, which protect both workers and drivers. Specifications also cover pavement and roadway design. Safety provisions for pedestrian and bicycle infrastructure are included, along with standards for lighting and traffic signals to enhance visibility and reduce collisions. The Sacramento County Standard Construction Specifications require regular inspections to ensure compliance, maintaining safety throughout the lifespan of county infrastructure.

SIGNIFICANCE CRITERIA AND METHODOLOGY

SIGNIFICANCE CRITERIA

This analysis uses significance criteria based on Section 15064.3 and Appendix G of the State CEQA Guidelines, and the Sacramento County General Plan and TAG. An impact on transportation would be significant if implementation of the proposed project would:

- eliminate or adversely affect an existing bikeway or pedestrian facility in a way that would discourage its use;
- interfere with the implementation of a planned bikeway as shown in the County Active Transportation Plan or conflict with the County Active Transportation Plan;
- result in unsafe conditions for bicyclists or pedestrians;
- adversely affect public transit access, service, or operations;
- fail to adequately provide access to transit;
- conflict with a program, plan, ordinance, or policy addressing roadway facilities;
- conflict or be inconsistent with State CEQA Guidelines Section 15064.3;
- substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment); or
- result in inadequate emergency access.

ISSUES NOT DISCUSSED FURTHER

CONSTRUCTION VMT

Section 15064.3 of the State CEQA Guidelines was adopted in December 2018 providing that VMT is the “most appropriate measure of transportation impacts.” Mandated analysis of VMT impacts became effective July 1, 2020. Therefore, the 2016 Final EIR did not evaluate impacts on VMT and did not provide an impact determination relevant to VMT for the approved project.

Under the Amended Mining Use Permit and Reclamation Plan, surface mining operations would occur for 20 years, extending from 2026 to 2045, with final reclamation of the project area to be completed over two years ending in 2047. The project would utilize existing employees as part of continued surface mining operations on the site. Due to the nature of the project, the project does not include a construction phase with short-term construction activities and, as such, would not generate construction VMT. Therefore, this issue is not discussed further and no comparison to the 2016 Final EIR is warranted.

METHODOLOGY

BICYCLE AND PEDESTRIAN ANALYSIS

The bicycle and pedestrian analyses include an evaluation of whether the project would, either directly or indirectly, disrupt existing bicycle or pedestrian programs or facilities; interfere with the implementation of a planned facility; or create a physical or operational transportation outcomes that conflicts with applicable bicycle or pedestrian system plans, guidelines, policies, or standards. Therefore, the project's consistency with relevant plans, ordinances, or policies (i.e., County General Plan, Active Transportation Plan) was evaluated to determine impacts to existing or future bicycle and pedestrian facilities in the project area.

TRANSIT ANALYSIS

The transit analysis evaluates if the project would, directly or indirectly, disrupt existing transit services or facilities; interfere with the implementation of a planned transit facility; or create physical or operational transportation outcomes that conflict with desired conditions expressed in transit policies adopted by the County or SacRT for their respective facilities in the unincorporated county. Therefore, the project's consistency with relevant plans, ordinances, or policies (i.e., County General Plan) was evaluated to determine impacts to present or future transit facilities and service in the project area.

ROADWAY FACILITIES ANALYSIS

The roadway analysis evaluates if the project would, directly or indirectly, conflict with a program, plan, ordinance, or policy addressing roadway facilities.

VMT ANALYSIS

The project was compared to the screening criteria included in the County TAG, as presented in Table 17-2, and the Technical Advisory. The applicable criteria from the County TAG as it relates to the project include:

- Small Projects: Projects generating less than 237 average daily traffic (ADT).

The County TAG recommends that project ADT be calculated using the Institute of Transportation Engineers (ITE) land use code applicable to the project (Sacramento County 2020). In addition, CEQA Guidelines Section 15064.3(a) states, "For the purposes of this section, 'vehicle miles traveled' refers to the amount and distance of automobile travel attributable to a project." Here, the term "automobile" refers to on-road passenger vehicles, specifically cars and light trucks (OPR 2018). Heavy-duty truck VMT could be included for modeling convenience and ease of calculation (for example, where models or data provide combined auto and heavy truck VMT) but need not be. Therefore, larger on-road construction vehicles that do not fall within the categories of cars and light trucks do not need to be considered in calculations of trips or VMT. Thus, this analysis focuses on trips associated with passenger vehicles (i.e., cars and light trucks).

Transportation Hazards and Emergency Access Analyses

The transportation hazards and emergency access analyses evaluate whether the project would directly or indirectly, substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment); or result in inadequate emergency access.

Impacts and Analysis

Impact TR-1: Adversely Affect an Existing Bicycle and Pedestrian Facility, Interfere with the Implementation of a Planned Bikeway, or Result in Unsafe Conditions for Bicyclists or Pedestrians

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project would not conflict with any adopted policies, plans, or programs supporting alternative transportation (Impact Evaluation TT-2). Therefore, the 2016 Final EIR concluded that this impact would be less than significant.

Proposed Project Impact Evaluation

While the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining and reclamation footprint by 245.64 acres, project implementation is anticipated to result in a similar annual rate of aggregate extraction, and, therefore, would not result in increased operational intensity or additional heavy truck trips. The proposed project would not require additional employees beyond the current nine full-time employees who are onsite at any given time under the current approved surface mining activities and as such, would not result in additional employee trips. In addition, the proposed project would continue to use the existing conveyor belt system to transfer mined aggregate material to the existing Perkins Plant, thereby avoiding the use of on-road haul trucks to transport the mined materials from the project site. Thus, transportation conditions under the proposed project would be similar to existing conditions under the approved project and no changes to the physical transportation system, including alternative transportation, would occur with project implementation.

In addition, the proposed project does not include any off-site improvements or any changes to surrounding roadways, including existing or planned bicycle and/or pedestrian facilities. The proposed project would establish a new access point along Knox Road to allow employees to access the Aspen IX Expansion Area. The new access point would be designed and constructed in accordance with all applicable driveway requirements as required by Sacramento County Department of Transportation (SacDOT) to ensure proper ingress/egress, which would minimize conflicts with pedestrians and bicyclists. Therefore, the proposed project would not conflict with any adopted policies, plans, or programs supporting alternative

transportation. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT TR-2: ADVERSELY AFFECT PUBLIC TRANSIT OPERATIONS OR FAIL TO PROVIDE ACCESS TO TRANSIT

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that implementation of the approved project would not conflict with any adopted policies, plans, or programs supporting alternative transportation, including transit services (Impact Evaluation TT-2). Therefore, the 2016 Final EIR concluded that this impact would be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

As discussed under Impact TR-1, while the proposed project would expand existing onsite surface mining and reclamation activities, project implementation would not result in an increase in the annual rate of aggregate extraction nor require additional employees beyond the current nine full-time employees who are onsite at any given time under the current approved mining activities. In addition, the proposed project would continue to use the existing conveyor belt system to transfer mined aggregate material to the existing Perkins Plant, thereby avoiding the use of on-road haul trucks to transport mined material from the project site. Therefore, the proposed project would not result in increased operational intensity or additional heavy truck or employee trips compared to existing conditions under the approved project. No changes to the physical transportation system, including public transit facilities and services, would occur with project implementation.

In addition, the proposed project does not include any off-site improvements or any changes to surrounding roadways, including existing or planned public transit facilities and services. While the proposed project would establish a new access point along Knox Road to allow employees to access the Aspen IX Expansion Area, this new access point would not interfere with an existing or planned transit service and would be removed as part of the final reclamation process. For these reasons, the proposed project would not adversely affect public transit facilities and services and would not conflict with adopted County plans, guidelines, policies, or standards related to transit. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and the overall impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT TR-3: CONFLICT WITH A PROGRAM, PLAN, ORDINANCE, OR POLICY ADDRESSING ROADWAY FACILITIES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that, because excavation of the Aspen VIII and IX sites could preclude the planned extension of Knox/Vineyard Road as depicted in the County General Plan, the impact would be potentially significant (Impact Evaluation TT-5). The 2016 Final EIR included Mitigation Measure TT-1, which required the project applicant to dedicate an area sufficient to accommodate the north/south extension of Knox/Vineyard Road and dedicate the necessary slope easements for the Knox/Vineyard Road as well as any easements necessary for an adopted trails master plan in addition to rough grade an area sufficient to accommodate the north/south extension of Knox/Vineyard Road. Therefore, the 2016 Final EIR determined impacts would be less than significant with implementation of Mitigation Measure TT-1. At the time of preparation of this SEIR, the requirements of Mitigation Measure TT-1 have been met by the project applicant.

PROPOSED PROJECT IMPACT EVALUATION

While the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing mining footprint by 245.64 acres, the proposed project would not conflict with the existing dedications and easements established by the approved project through implementation of adopted 2016 Final EIR Mitigation Measure TT-1 as these easements have been incorporated into the proposed project's mining plans (refer to Figures 2-9 through 2-11). Once reclaimed, the proposed project would not preclude the extension of Knox/Vineyard Road as depicted in the County General Plan. As such, implementation of the proposed project would result in less than significant impacts related to conflicting with a program, plan, ordinance, or policy addressing roadway facilities. Therefore, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. The overall impact would be reduced to **less than significant** as the proposed project's contribution to this impact would not be substantial and adopted 2016 Final EIR Mitigation Measure TT-1 would not apply to the proposed project.

MITIGATION MEASURES

No mitigation is required.

IMPACT TR-4: GENERATE VMT THAT EXCEEDS COUNTY STANDARDS

2016 FINAL EIR DETERMINATION

Section 15064.3 of the State CEQA Guidelines was adopted in December 2018 providing that VMT is the "most appropriate measure of transportation impacts." Mandated analysis of VMT impacts became effective July 1, 2020. Therefore, the 2016 Final EIR did not evaluate impacts on VMT and did not provide an impact determination relevant to VMT for the approved project. However, VMT was a known and used metric at the time the 2016 Final EIR was prepared, but its use was generally limited to highway cost allocation, determining user fee structures, and estimating air quality and greenhouse gas emissions.

PROPOSED PROJECT IMPACT EVALUATION

The County TAG establishes VMT guidelines and thresholds that address CEQA Guidelines Section 15064.3. As detailed in the "Regulatory Setting," the TAG has established screening thresholds including one that screens out projects that are too small to have any appreciable impact on VMT generation. Specifically, the threshold for small projects is based on a maximum generation of 237 ADT per day, as calculated using the ITE land use codes applicable to the project.

As detailed in Chapter 2, "Project Description," surface mining would occur over two phases and would not require additional employees beyond the current nine full-time employees who are onsite at any given time under the current approved mining activities. This analysis conservatively assumes that all full-time employees would not carpool and would generate two trips per employee per day. Therefore, full-time employees are estimated to currently generate a total of 18 average daily trips. In addition, the proposed project would continue to use the existing conveyor belt system to transfer mined aggregate materials to the existing Perkins Plant, thereby avoiding the use of on-road haul trucks to transport mined material off-site. Because operational activity would not change in a manner that would result in additional employee commute trips, the number of daily operational trips is expected to remain the same with implementation of the proposed project (i.e., 18 average daily trips) and no increase in VMT compared to existing conditions under the approved project would occur with implementation of the proposed project. Thus, the project would be consistent with the screening criteria established in both the County TAG (i.e., less than 237 ADT) and the Technical Advisory (i.e., less than 110 trips per day) (OPR 2018). For this reason, the proposed project would not conflict or be inconsistent with State CEQA Guidelines Section 15064.3. Therefore, impacts related to VMT would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT TR-5: SUBSTANTIALLY INCREASE HAZARDS DUE TO A GEOMETRIC DESIGN FEATURE OR INCOMPATIBLE USES

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that the approved project would not result in a substantial adverse impact on public safety on area roadways due to the limited number of daily worker trips (9 full time employees) and limited heavy construction truck trips on local roadways due to the majority of material being transported within the approved project site using internal access roads and not public roadways (Impact Evaluation TT-3). Therefore, the 2016 Final EIR concluded this impact to be less than significant.

PROPOSED PROJECT IMPACT EVALUATION

The proposed project does not include any off-site improvements nor any improvements within surrounding roadways around the project. While the proposed project would establish a new site access point along Knox Road to allow employees to access the Aspen IX Expansion Area, this access point would be designed and constructed in accordance with all applicable driveway requirements as required by the Sacramento County Department of Transportation (SacDOT) to ensure proper ingress/egress to minimize roadway hazards. A new parking lot and staging area would be provided within the project site but outside of the surface mining footprint from the new access point from Knox Road. Furthermore, the project would not introduce incompatible uses to the roadway network because no heavy trucks are proposed to use the local roadway system and all materials would be transported off-site using the existing and extended conveyor belt system.

While the potential for the proposed project to substantially increase hazards due to a design feature or incompatible use is considered to be low due to the design and nature of the project, the potential would be further reduced through compliance with established standards and regulations. For these reasons, the proposed project would not substantially increase hazards due to a design feature or incompatible use. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project's contribution to this impact would not be substantial and this impact would remain **less than significant**.

MITIGATION MEASURES

No mitigation is required.

IMPACT TR-6: RESULT IN INADEQUATE EMERGENCY ACCESS

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include an analysis of the approved project's potential to affect emergency access and did not provide an impact determination relevant to emergency access for the approved project. However, the 2016 Final EIR did evaluate the potential for the approved project to result in substantial adverse physical impacts

associated with the provision of emergency services in Chapter 6, “Public Services” (Impact Evaluation PS-7). The 2016 Final EIR determined implementation of the approved project would not increase demand for emergency services and would not cause substantial adverse physical impacts as a result of providing adequate service. The 2016 Final EIR concluded the impact to be less than significant.

In addition, the 2016 Final EIR also evaluated the potential for the approved project to physically interfere with an adopted emergency response or emergency evacuation plan in Chapter 14, “Hazards and Hazardous Materials” (Significance Criteria HM-5). The 2016 Final EIR determined implementation of the approved project would not interfere with any known emergency response or evacuation plan and determined the impact to be less than significant.

Proposed Project Impact Evaluation

As detailed in Chapter 2, “Project Description,” project implementation would not result in an increase in the annual rate of aggregate extraction, and, therefore, would not result in increased operational intensity or additional heavy truck or employee trips. Thus, surface mining activities under the proposed project would be similar to those under existing conditions and would not result in alterations to the physical transportation network that could result in inadequate emergency access.

As discussed above under Impact TR-4, the proposed project would establish a new access point along Knox Road to allow employees to access the Aspen IX Expansion Area. The new access point would be designed and constructed in accordance with all applicable driveway requirements as required by SacDOT to ensure proper ingress/egress. In addition, the proposed project would be required to comply with all applicable regulations and codes related to emergency access, including the 2022 California Fire Code, the County Fire Code, and the County General Plan. Compliance with the 2022 California Fire Code, as adopted by reference in the County Fire Code, provides requirements for fire apparatus access roads, including minimum dimensions to allow for adequate access and turning radii for emergency vehicles accessing the project site during operations.

Furthermore, the proposed project would be subject to review by the County and responsible emergency service agencies, thus ensuring that the proposed project would be equipped to provide adequate access for emergency responders. Section 12-3.03 of the County Standard Construction Specifications requires project contractors to provide for the uninterrupted passage of emergency vehicles through or around a work area at all times (Sacramento County 2024). Therefore, adherence to County policies and standards would ensure that adequate emergency access is provided.

For these reasons, implementation of the proposed project would not result in inadequate emergency access. As such, implementation of the proposed project would not result in a new or substantially more severe impact compared to the previously approved project as evaluated in the certified 2016 Final EIR. Therefore, the proposed project’s contribution to this impact would not be substantial and this impact would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

18 TRIBAL CULTURAL RESOURCES

INTRODUCTION

Under CEQA, lead agencies must consider the effects of their projects on tribal cultural resources. This chapter describes the potential impacts on tribal cultural resources that could occur as a result of implementation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project). Tribal cultural resources, as defined by Assembly Bill (AB) 52, Statutes of 2014, in Public Resources Code (PRC) Section 21074, are sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a tribe. A tribal cultural landscape is defined as a geographic area (including both cultural and natural resources and the wildlife therein) associated with a historic event, activity, or person or exhibiting other cultural or aesthetic values.

AB 52 consultation requirements went into effect on July 1, 2015 for all projects that had not already published a Notice of Intent to Adopt a Negative Declaration or Mitigated Negative Declaration or published a Notice of Preparation (NOP) of an Environmental Impact Report (EIR) prior to that date (Section 11 [c]). The NOP for the approved project was published on February 17, 2015; thus, AB 52 consultation was not conducted for the approved project because it predated passage of AB 52.

This chapter describes both environmental and regulatory settings followed by an accounting of the archival research that was conducted within the project site and an analysis of potential impacts on tribal cultural resources associated with implementing the proposed project.

Comments related to tribal cultural resources received in response to the NOP outlined the obligations under CEQA for consultation with tribes in accordance with AB 52. The NOP and comments received on the NOP are presented in Appendix A.

TRIBAL CULTURAL RESOURCES

Tribal Cultural Resources (TCR) are defined by CEQA as “a site, feature, place, cultural landscape, sacred place, or object with cultural value to a California Native American tribe that either qualify as a historical resource or are a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be eligible for listing on the California Register of Historic Places.”

Historic resources, unique archaeological resources, or non-unique archaeological resources may also be TCRs if they meet these criteria.

A tribal cultural landscape that meets the above criteria is a TCR to the extent that it is geographically defined in terms of its size and scope.

Environmental Setting

As described in Chapter 2, “Project Description,” the proposed project would expand surface mining and reclamation activities currently entitled under the Aspen VIII and IX Mining Use Permit Project (approved project) by 245.64 acres across the proposed Aspen VIII and IX Expansion Areas (project site), which are adjacent to the existing Aspen VIII and IX mining areas. The project site also includes a small corridor over Elder Creek where the existing conveyor belt system would be extended to reach the Aspen IX Expansion Area (Figure 2-3); however, the Elder Creek corridor is not located within the Aspen IX Expansion Area and would be outside of the mining boundary of the proposed project. The project site is currently undeveloped, grassland areas with no active onsite uses.

Ethnography

Plains Miwok

Although the project site is located in what is ethnographically defined as predominantly Plains Miwok territory, the boundaries documented in ethnographic literature are based on conditions after the Gold Rush, when population pressures would have forced the movements of indigenous groups due to the influx of Euroamericans. In this region specifically, labor demands by John Sutter pushed the Nisenan (northern neighbors of the Plans Miwok) into Plains Miwok areas. Areas where precontact and ethnographic boundaries are not certain are referred to as grey areas; precontact sites identified within these grey areas may offer answers to important research questions (Ascent 2024).

The Plains Miwok are part of the larger Eastern Miwok group that forms one of the two major divisions of the Miwokan subgroup of the Utian speakers. The Plains Miwok lived in the Sacramento Valley along the Sacramento, Cosumnes, and Mokelumne rivers. They built their homes on high ground, with major villages concentrated along the major waterways. Conical homes were constructed with poles and thatching of brush, grass, or tule, though semisubterranean earth-covered homes were built as well. Major villages contained an assembly house, which was a semisubterranean structure with a diameter of 40 to 50 feet, as well as a sweathouse, which was a scaled-down version of the assembly house. Plains Miwok people utilized the rich resources of the delta and surrounding area for both dietary needs and material culture. Tules were woven into matting and clothing, bundled to form canoes, and used in house and granary construction. Salt, nuts, basketry, and obsidian were obtained through trade with neighboring tribes to the east for shells, basketry, and bows obtained in turn through trade from tribes located to the west (Ascent 2024).

The Plains Miwok gathered food resources as the seasons varied. As with most California tribes, they subsided heavily on the acorn, but also gathered nuts, seeds, roots, greens, berries, and mushrooms. Animal foods included tule elk, pronghorn antelope, jackrabbits, squirrels, beaver, quail, and waterfowl. Salmon was the dominant animal food resource, ranking above other river resources, such as sturgeon. Technological items of the Plains Miwok included wooden digging sticks, poles, and baskets used for gathering vegetal

resources, and stone mortars, pestles, and cooking stones used for processing. Items used for obtaining animal resources included nets, snares, seines, bows, and arrows. Arrow points were made primarily of basalt and obsidian (Ascent 2024).

Contemporary Native American Setting

The members of Wilton Rancheria are descendants of the Penutian linguistic family identified as speaking the Miwok dialect. The Tribe's Indigenous territory encompasses Sacramento County. The lands the Tribe's ancestors inhabited were located along a path of massive death and destruction of California Indians caused by Spanish, Mexican, and American military incursions, disease and slavery, and the violence accompanying mining and settlements (Wilton Rancheria 2024).

The Tribe's ancestors came back from nearly being annihilated only to have their children taken to boarding schools that stripped their indigenous language and culture further. Finally, in July 1928, the United States of America acquired land in trust for the Miwok people that were living in Sacramento County. A 38.77-acre tract of land in Wilton, in Sacramento County, California was purchased from the Cosumnes Company, which formally established the Wilton Rancheria. In 1958, the United States Congress enacted the Rancheria Act, authorizing the termination of federal trust responsibilities to 41 California Indian Tribes including Wilton Rancheria. The Tribe officially lost its federal recognition in 1964.

Congress reconsidered their policy of termination in favor of Indian self-determination in the 1970s. In 1991, surviving members of Wilton Rancheria reorganized their tribal government and in 1999 they requested the United States to formally restore their federal recognition. Ten years later a decision of a US District Court Judge gave Wilton Rancheria restoration, restoring the Tribe to a Federally Recognized Tribe in 2009. Wilton Rancheria is a federally recognized Indian Tribe as listed in the Federal Register, Vol. 74, No. 132, p. 33468-33469, as "Wilton Rancheria of Wilton, California." The Tribe passed their constitution in 2011. The Tribe's four branches of government include the Office of the Chair and Vice Chair, the Tribal Council, a Tribal-Court, and the General Council (Wilton Rancheria 2024).

Regulatory Setting

Federal

There are no federal regulations that pertain to tribal cultural resources for this project.

State

California Register of Historical Resources

All properties in California that are listed in or formally determined eligible for listing in the National Register of Historic Places (NRHP) are also listed in the California Register of Historical Resources (CRHR). The CRHR is a listing of State of California resources that

are significant in the context of California's history. It is a Statewide program with a scope and with criteria for inclusion similar to those used for the NRHP. In addition, properties designated under municipal or county ordinances are also eligible for listing in the CRHR.

A historical resource must be significant at the local, State, or national level under one or more of the criteria defined in the California Code of Regulations Title 15, Chapter 11.5, Section 4850 to be included in the CRHR. The CRHR criteria are tied to CEQA because any resource that meets the criteria below is considered a significant historical resource under CEQA. As noted above, all resources listed in or formally determined eligible for listing in the NRHP are automatically listed in the CRHR.

The CRHR uses four evaluation criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

2. Is associated with the lives of persons important in our past;

3. Embodies the distinctive characteristics of a type, period, region or method of installation, or represents the work of an important creative individual, or possesses high artistic values; or

4. Has yielded, or may be likely to yield, information important in prehistory or history.

Similar to the NRHP, a historical resource must meet one of the above criteria and retain integrity to be listed in the CRHR. The CRHR uses the same seven aspects of integrity used by the NRHP: location, design, setting, materials, workmanship, feeling, and associations.

California Environmental Quality Act

CEQA requires lead agencies to consider whether projects will affect tribal cultural resources. PRC Section 21074 states:

a) "Tribal cultural resources" are either of the following:

   1) Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:

      A) Included or determined to be eligible for inclusion in the California Register of Historical Resources.

      B) Included in a local register of historical resources as defined in subdivision (k) of Section 5020.1.

   2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in

subdivision (c) of Section 5024.1. In applying the criteria set forth in subdivision (c) of Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American tribe.

b) A cultural landscape that meets the criteria of subdivision (a) is a tribal cultural resource to the extent that the landscape is geographically defined in terms of the size and scope of the landscape.

c) A historical resource described in Section 21084.1, a unique archaeological resource as defined in subdivision (g) of Section 21083.2, or a "nonunique archaeological resource" as defined in subdivision (h) of Section 21083.2 may also be a tribal cultural resource if it conforms with the criteria of subdivision (a).

Native American Burials and Inadvertent Discoveries

California law protects Native American burials, skeletal remains, and associated grave goods regardless of their antiquity and provides for the sensitive treatment and disposition of those remains (Section 7050.5 of the California Health and Safety Code and PRC 5097.9).

When human remains are discovered, the protocol to be followed is specified in California Health and Safety Code, which states:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

State CEQA Guidelines Section 15064.5(e) requires that excavation activities be stopped whenever human remains are uncovered and that the County coroner be called in to assess the remains. If the County coroner determines that the remains are those of Native Americans, the Native American Heritage Commission (NAHC) must be contacted within 24 hours. At that time, the lead agency must consult with the appropriate Native Americans, if any, as timely identified by the NAHC. Section 15064.5 directs the lead agency (or project applicant), under certain circumstances, to develop an agreement with the Native Americans for the treatment and disposition of the remains.

In addition to the mitigation provisions pertaining to accidental discovery of human remains, the State CEQA Guidelines also require that a lead agency make provisions for the accidental discovery of historical or archaeological resources, generally.

Pursuant to Section 15064.5(f), these provisions should include "an immediate evaluation of the find by a qualified archaeologist. If the find is determined to be an historical or unique archaeological resource, contingency funding and a time allotment sufficient to allow for implementation of avoidance measures or appropriate mitigation should be available. Work could continue on other parts of the building site while historical or unique archaeological resource mitigation takes place."

Assembly Bill 52

Pursuant to AB 52 (Statutes of 2014), "[a] project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment" (PRC Section 21084.2). To help determine whether a project may have such an effect, lead agencies are required to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a proposed project. That consultation must take place prior to the determination of whether a negative declaration, mitigated negative declaration, or EIR is required for a project (PRC Section 21080.3.1).

As stated in Section 11 of AB 52, this act shall apply only to a project that has an NOP or a notice of intent to adopt a negative declaration or mitigated negative declaration filed on or after July 1, 2015. The NOP for the proposed project was filed with the State Clearinghouse on August 26, 2024. Therefore, the proposed project is subject to AB 52 and the results of the tribal consultation conducted for the proposed project are documented in this SEIR.

Local

Sacramento County 2030 General Plan

The following 2030 General Plan policies are applicable to the proposed project (Sacramento County 2017):

- **Policy CO-150**. Utilize local, state and national resources, such as the NCIC [North Central Information Center], to assist in determining the need for a cultural resources survey during project review.
- **Policy CO-151.** Projects involving an adoption or amendment of a General Plan or Specific Plan or the designation of open space shall be noticed to all appropriate Native American tribes in order to aid in the protection of traditional tribal cultural places.
- **Policy CO-154.** Protection of significant prehistoric, ethnohistoric and historic sites within open space easements to ensure that these resources are preserved in situ for perpetuity.
- **Policy CO-155.** Native American burial sites encountered during preapproved survey or during construction shall, whenever possible, remain in situ. Excavation and reburial shall occur when in situ preservation is not possible or when the archeological significance of the site merits excavation and recording procedure. On-site reinterment shall have priority. The project developer shall provide the

burden of proof that offsite reinterment is the only feasible alternative. Reinterment shall be the responsibility of local tribal representatives.

- **Policy CO-157.** Monitor projects during construction to ensure crews follow proper reporting, safeguards, and procedures.
- **Policy CO-158.** As a condition of approval for discretionary permits, a procedure shall be included to cover the potential discovery of archaeological resources during development or construction.

Community Plans

Community plans provide goals and policies that guide the physical development of individual communities in the county. The Vineyard Community Plan is relevant to the proposed project because the project site is located within the plan area.

Vineyard Community Plan

The Vineyard Community Plan does not contain specific policies related to tribal cultural resources.

Significance Criteria and Methodology

Significance Criteria

Based on Appendix G of the State CEQA Guidelines, impacts on tribal cultural resources would be significant if implementation of the proposed project would:

- cause a substantial adverse change in the significance of a tribal cultural resource.

Issues Not Discussed Further

All issues identified in the significance criteria are addressed in the following analysis.

Methodology

The following analysis is based on the outcome of tribal consultation under AB 52 and the cultural resources survey conducted for the *Cultural Resources Technical Report for the Aspen VII and IX Use Permit Amendment Project* (Ascent 2024). The analysis is also informed by the provisions and requirements of State and local laws and regulations that apply to tribal cultural resources, which are described above.

Disclosure of Cultural Resources Information

Public disclosure of site-specific cultural resources information is expressly exempt from the California Public Records Act, Government Code Sections 6250-6270. Furthermore, information obtained during Native American consultation or through consultation with the local and state agencies, including NCIC, should remain confidential and is exempt from public disclosure under Senate Bill 922. Additionally, Sacramento County staff has signed

an “Agreement to Confidentiality” with the NCIC that states that site specific information will not be distributed or released to the public or unauthorized individuals. An authorized individual is a professional archaeologist or historian that qualifies under the Secretary of the Interior’s standards to view confidential cultural resources materials.

Native American Consultation

On August 15, 2024, in accordance with AB 52 and Sacramento County General Plan Policy CO-151, the County sent letters to the three tribal representatives who have requested notification of County projects. A list of the tribes contacted is provided below:

- Ione Band of Miwok Indians: Cultural Committee Chair;
- United Auburn Indian Community of the Auburn Rancheria: Gene Whitehouse, Chairperson; and
- Wilton Rancheria: Steven Hutchason, Tribal Historic Preservation Officer.

No responses were received from any of the tribes as a result of the AB 52 consultation efforts.

Sacred Land File Search

A search of the Sacred Land File (SLF) was sent to the NAHC on January 10, 2024. Positive results were returned on February 2, 2024 (Ascent 2024). A positive result means that a tribe or multiple tribes have reported an area to be sacred which could indicate the presence of a tribal cultural resource. No specific tribal affiliation was included in these results. The NAHC does not provide specific locations of these areas, and tribes usually do not disclose specific locations to the general public.

Information Center Record Search

In accordance with Sacramento County General Plan Policy CO-150 and standard professional practice, an extensive search of data maintained by the NCIC of the California Historical Resources Information System at California State University, Sacramento, including state and federal listings of significant cultural resources and associated data bases was conducted on February 2, 2024. In addition to official maps and records, the following sources of information at the NCIC were consulted as part of the record search.

- NRHP – Listed Properties,
- CRHR,
- California Inventory of Historical Resources,
- California State Historical Landmarks,
- California Points of Historical Interest, and
- Office of Historic Preservation Historic 2012 Property Directory and Determinations of Eligibility.

Review of the NCIC records search results for the project site identified two previously recorded resources within the project site (P-34-000690 and P-34-001867). P-34-000690 and P-34-001867 are both historic era resources and, therefore, are discussed in Section 9, “Cultural Resources” of this SEIR.

Field Assessments

The project site was subject to a pedestrian survey on February 14, 2024. The survey consisted of a pedestrian inspection, with the surveyors walking 10- to 15-meter-wide intervals to ensure maximum ground. Surface visibility was generally poor across the project site; the majority of the site was vegetated with thick grasses. Areas denuded of vegetation were examined carefully. Special attention was given to bare patches of ground, exposed soils, rodent burrows, and dirt piles.

No precontact archaeological sites (or isolates) that would have the potential to be identified as a tribal cultural resource were encountered as a result of this survey.

Impacts and Analysis

Impact TCR-1: Cause a Change in Significance of a Tribal Cultural Resource

2016 Final EIR Determination

AB 52 consultation requirements went into effect on July 1, 2015 for all projects that had not already published a Notice of Intent to Adopt a Negative Declaration or Mitigated Negative Declaration or published an NOP of an EIR prior to that date (Section 11 [c]). The NOP for the approved project was published on February 17, 2015; thus, AB 52 consultation was not conducted for the approved project because it predated passage of AB 52. However, as part of the Sacred Land Files search conducted for the approved project, letters were sent to tribal contacts in 2014 to notify them of the approved project. No responses were received at the time of publication of the 2016 Final EIR.

In 2018, the State CEQA Guidelines were comprehensively updated, and tribal cultural resources was added to Appendix G as a new issue to be evaluated in CEQA documents. The tribal cultural resources analysis requires public agencies to conduct tribal consultation in accordance with AB 52 to determine whether a project’s impacts would have a significant impact on tribal cultural resources and to coordinate appropriate mitigation with the tribes.

Because the 2016 Final EIR was certified prior to tribal cultural resources being included as a CEQA issue, the 2016 Final EIR did not evaluate the approved project’s potential to result in impacts related to tribal cultural resources. However, the 2016 Final EIR did evaluate the potential for the approved project to result in substantial adverse physical impacts to historical and archaeological resources and buried human remains

in Chapter 15, “Cultural Resources,” of the 2016 Final EIR. These impacts were determined to be less than significant with implementation of mitigation.

PROPOSED PROJECT IMPACT EVALUATION

Because the proposed project would amend the existing Mining Use Permit and Reclamation Plan to expand the existing surface mining and reclamation footprint by 245.64 acres and would involve ground-disturbing activities similar to the approved project, the proposed project would also have the potential to adversely affect tribal cultural resources.

As detailed above, the County mailed letters to three tribal representatives on August 15, 2024, in compliance with AB 52. No responses were received and, therefore, no tribal cultural resources, as defined in PRC Section 21074, were identified. Positive SLF results were returned on February 2, 2024, which indicates that a tribe or multiple tribes have indicated the presence of sacred sites that could potentially be considered a tribal cultural resource. In addition, although no tribal cultural resources (i.e., resources meeting any of the PRC Section 5024.1[c] criteria) within the unincorporated county have been identified as part of the proposed project, it is possible that tribal cultural resources could be encountered and/or identified during ground-disturbing activities.

California law recognizes the need to protect tribal cultural resources from inadvertent destruction and the procedures for the treatment of tribal cultural resources are contained in PRC Section 21080.3.2 and Section 21084.3(a). As a precaution for unintended discoveries of tribal cultural resources, implementation of New Mitigation Measure TCR-1 would require that in the event of a suspected tribal cultural resources discovery, all ground-disturbing activities are halted within 100 feet of the find and the appropriate tribal representative(s) are notified to evaluate the find, which would further aid in minimizing impacts to tribal cultural resources during project implementation. In addition, implementation of Revised 2016 Final EIR Mitigation Measures CR-2 would require all surface mining activities to be halted within 100 feet of a discovery of subsurface deposits of cultural resources and the proper protocols to be implemented in accordance with all applicable regulations, which would ensure adverse effects to archaeological resources, which are also considered tribal cultural resources, are minimized. Therefore, compliance with existing regulations and implementation of New Mitigation Measure TCR-1 and Revised 2016 Final EIR Mitigation Measures CR-2 would ensure that the proposed project would not adversely affect tribal cultural resources. Impacts would be **less than significant with mitigation**.

MITIGATION MEASURES

Implement New Mitigation Measure TCR-1 and Revised 2016 Final EIR Mitigation Measure CR-2 (refer to Chapter 9, “Cultural Resources”, of this SEIR).

New Mitigation Measure TCR-1: Inadvertent/Unanticipated Tribal Cultural Resources Discoveries

If any suspected tribal cultural resources are discovered during ground-disturbing surface mining activities, all work shall cease within 100 feet of the find, or an agreed upon distance based on the nature of the find. The NAHC shall be immediately notified to determine if the find is a tribal cultural resource and they will designate a Most Likely Descendant (MLD) (PRC Section 21074). The MLD will make recommendations for further evaluation and treatment, as necessary. Preservation in place is the preferred option for mitigation of tribal cultural resources, and every effort shall be made to preserve the resources in place, including through project redesign, if feasible.

When avoidance is infeasible, culturally appropriate treatments may include, but are not limited to, processing materials for reburial, minimizing handling of cultural objects, leaving objects in place within the landscape, or returning objects to a location within the candidate rezone site where they will not be subject to future impacts. Permanent curation of tribal cultural resources shall not take place unless approved in writing by the California Native American tribe that is traditionally and culturally affiliated with the candidate rezone site.

The project proponent shall implement any measures deemed by the County to be necessary and feasible to preserve in place, avoid, or minimize impacts to the resource, including, but not limited to, facilitating the appropriate tribal treatment of the find, as necessary. Treatment that preserves or restores the cultural character and integrity of a tribal cultural resource may include tribal monitoring, culturally appropriate recovery of cultural objects, and reburial of cultural objects or cultural soil. Work at the discovery location shall not resume until all necessary investigation and evaluation of the discovery have been satisfied.

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19 SUMMARY OF IMPACTS AND OTHER CEQA CONSIDERATIONS

This chapter provides (1) a summary of the proposed project's potential impacts, including significant and unavoidable impacts, impacts that can be reduced to a less-than-significant level with mitigation, and impacts that would be less than significant without mitigation; (2) a discussion of the significant and irreversible environmental changes that would be caused by the project; (3) an evaluation of the cumulative impacts of the project; and (4) an evaluation of the project's potential for growth-inducing impacts.

SUMMARY OF IMPACTS BY SIGNIFICANCE DETERMINATION

The following provides a summary of the conclusions reached in the evaluation of the proposed Aspen VIII & IX Mining Use Permit Amendment Project (proposed project) in Chapters 4 through 18 of this SEIR. For a tabulated summary of the proposed project's potential impacts, applicable mitigation measures, and significance determinations, refer to Table ES-1 in Chapter 1, "Executive Summary", of this SEIR.

SIGNIFICANT EFFECTS THAT CANNOT BE AVOIDED

Section 15126.2(b) of the State CEQA Guidelines requires that an EIR describe any significant impacts that cannot be avoided, even with the implementation of feasible mitigation measures. The evaluation of resources in Chapters 4–18 of this SEIR identifies significant and unavoidable impacts for the proposed project in the following categories:

- Impact AE-1: Degradation of Existing Character or Quality of Public Views of the Plan Area and Its Surroundings (no change in 2016 Final EIR impact conclusions)
- Impact AR-1: Convert Farmland to Non-Agricultural Uses (increased severity of agricultural impacts from 2016 Final EIR impact conclusions)
- Impact AIR-1: Generate Long-Term Operational Emissions of Criteria Air Pollutants and Ozone Precursors (ROG, NO_X, PM_{10}, and $PM_{2.5}$) that Exceed Standards (no change in 2016 Final EIR impact conclusions)

SIGNIFICANT EFFECTS THAT COULD BE AVOIDED WITH IMPLEMENTATION OF MITIGATION MEASURES

The following impacts were determined to be less than significant with mitigation incorporated:

- Impact AE-2: New Sources of Light or Glare (no change in 2016 Final EIR impact conclusions)

- Impact AIR-4: Conflict With an Air Quality Plan (new less than significant impact with mitigation)
- Impact BR-1: Have a Substantial Adverse Effect on Special-Status Species (no change in 2016 Final EIR impact conclusions)
- Impact BR-3: Have a Substantial Adverse Effect on State or Federally Protected Wetlands (no change in 2016 Final EIR impact conclusions)
- Impact BR-4: Adversely Affect or Result in the Removal of Native or Landmark Trees (no change in 2016 Final EIR impact conclusions)
- Impact BR-5: Conflict with any Local Policies or Ordinances Protection Biological Resources (no change in 2016 Final EIR impact conclusions)
- Impact BR-6: Have a Substantial Adverse Effect on the Movement of any Native Resident of Migratory Fish or Wildlife Species or with Established Native Resident or Migratory Wildlife Corridors, or Impede the use of Native Wildlife Nursery Sites (no change in 2016 Final EIR impact conclusions)
- Impact BR-7: Conflict with the South Sacramento Habitat Conservation Plan (new less than significant impact with mitigation incorporated)
- Impact CR-2: Cause a Substantial Adverse Change to an Archaeological Resource (no change in 2016 Final EIR impact conclusions)
- Impact CR-3: Disturb Human Remains (no change in 2016 Final EIR impact conclusions)
- Impact GS-1: Exacerbate Unstable Soil Conditions (no change in 2016 Final EIR impact conclusions)
- Impact GS-3: Potential Destruction of Buried Paleontological Resources (no change in 2016 Final EIR impact conclusions)
- Impact HAZ-1: Accidental Release Due to Transport, Use, or Disposal of Hazardous Materials (no change in 2016 Final EIR impact conclusions)
- Impact NO-1: Expose New or Existing Sensitive Receptors to New Non-Transportation Noise Sources (no change in 2016 Final EIR impact conclusions)
- Impact TCR-1: Cause a Change in Significance of a Tribal Cultural Resource (new less than significant impact with mitigation incorporated)

Effects Found Not to Be Significant

The following impacts were determined to be less than significant:

- Impact AR-2: Conflict with Existing, Adjacent Agricultural Use and Zoning (no change in 2016 Final EIR impact conclusions)
- Impact AIR-2: Result in Substantial Mobile-Source Carbon Monoxide (CO) Concentrations (no change in 2016 Final EIR impact conclusions)

- Impact AIR-3: Exposure of Sensitive Receptors to Toxic Air Contaminants (TACs) (no change in 2016 Final EIR impact conclusions)
- Impact AIR-5: Exposure to Odors Affecting a Substantial Number of People (no change in 2016 Final EIR impact conclusions)
- Impact AC-1: Result in a Safety Hazard to People Living and Working in the Vicinity of an Airport (no change in 2016 Final EIR impact conclusions)
- Impact AC-2: Result in Exposure to Excessive Noise Levels Associated with Airport Operations (no change in 2016 Final EIR impact conclusions)
- Impact AC-3: Result in Effects on Safe and Efficient Use of Navigable Airspace (no change in 2016 Final EIR impact conclusions)
- Impact BR-2: Have a Substantial Adverse Effect on any Riparian Habitat or Other Sensitive Natural Community (no change in 2016 Final EIR impact conclusions)
- Impact CR-1: Cause a Substantial Adverse Change in the Significance of a Built-Environment Historical Resource (no change in 2016 Final EIR impact conclusions)
- Impact EN-1: Result in Wasteful, Inefficient, or Unnecessary Consumption of Energy (new less than significant impact)
- Impact EN-2: Conflict with or Obstruct a State or Local Plan for Renewable Energy or Energy Efficiency (new less than significant impact)
- Impact GS-2: Result in Substantial Soil Erosion (less severe impact than 2016 Final EIR impact conclusion as mitigation not required for this impact)
- Impact GS-4: Obstruction of Access to Mineral Resources (no change in 2016 Final EIR impact conclusions)
- Impact GG-1: Generate GHG Emissions, Either Directly Or Indirectly, That May Have A Significant Impact On The Environment (no change in 2016 Final EIR impact conclusions)
- Impact GG-2: Conflict with Any Applicable Plan, Policy, or Regulation of an Agency for the Purpose of Reducing the Emissions of GHG (no change in 2016 Final EIR impact conclusions)
- Impact HAZ-2: Expose People or Structures to Wildland Fires (new less than significant impact)
- Impact HYD-1: Violate Water Quality Standards (no change in 2016 Final EIR impact conclusions)
- Impact HYD-2: Substantially Decrease Groundwater Supplies or Interfere Substantially with Groundwater Recharge (no change in 2016 Final EIR impact conclusions)
- Impact HYD-3: Substantially Alter the Existing Drainage Pattern of the Plan Area Such That Substantial Erosion, Flooding, or Polluted Runoff Could Occur (less

severe impact than 2016 Final EIR impact conclusion as mitigation not required for this impact)

- Impact HYD-4: Risk Release of Pollutants due to Inundation in Flood Hazard Zones (no change in 2016 Final EIR impact conclusions)
- Impact HYD-5: Conflict with a Water Quality Control Plan or Sustainable Groundwater Management Plan (no change in 2016 Final EIR impact conclusions)
- Impact NO-2: Generate Substantial Long-Term Mining-Related Vibration (no change in 2016 Final EIR impact conclusions)
- Impact PS-1: Result in Substantial Adverse Physical Impacts Associated With the Provision of Parks and Recreation Services or Substantial Physical Deterioration of an Existing Facility (less severe impact than 2016 Final EIR impact conclusion as mitigation not required for the proposed project)
- Impact TR-1: Adversely Affect an Existing Bicycle and Pedestrian Facility, Interfere with the Implementation of a Planned Bikeway, or Result in Unsafe Conditions for Bicyclists or Pedestrians (no change in 2016 Final EIR impact conclusions)
- Impact TR-2: Adversely Affect Public Transit Operations or Fail to Provide Access to Transit (no change in 2016 Final EIR impact conclusions)
- Impact TR-3: Conflict with a Program, Plan, Ordinance, or Policy Addressing Roadway Facilities (less severe impact than 2016 Final EIR impact conclusion as mitigation not required for the proposed project)
- Impact TR-4: Generate VMT That Exceeds County Standards (new less than significant impact)
- Impact TR-5: Substantially Increase Hazards Due to a Geometric Design Feature or Incompatible Uses (no change in 2016 Final EIR impact conclusions)
- Impact TR-6: Result in Inadequate Emergency Access (no change in 2016 Final EIR impact conclusions)

CUMULATIVE IMPACTS

State CEQA Guidelines Section 15355 defines a cumulative impact as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time. Section 15130(a)(3) of the State CEQA Guidelines states that an EIR may determine that a project's contribution to a significant cumulative impact will be rendered less than cumulatively considerable, and thus not significant, if a project is required to implement or fund its fair share of a mitigation measure or measures designed to alleviate the cumulative impact.

For purposes of this EIR, the project would have a significant cumulative effect if it meets either one of the following criteria:

- The cumulative effects of related projects (past, current, and probable future projects) without the project are not significant but the project's incremental impact is substantial enough, when added to the cumulative effects, to result in a significant impact; or
- The cumulative effects of related projects (past, current, and probable future projects) without the project are already significant and the project represents a considerable contribution to the already significant effect. The standards used herein to determine "considerable contribution" are that the impact either must be substantial or must exceed an established threshold of significance.

The analysis herein evaluates whether, after adoption of project-specific mitigation, the residual impacts of the project would cause a cumulatively significant impact or would contribute considerably to existing/anticipated (without the project) cumulatively significant effects.

Scope of the Cumulative Analysis

Section 15130 of the State CEQA Guidelines indicates that the level of detail of the cumulative analysis need not be as great as for the project impact analyses, that it should reflect the severity of the impacts and their likelihood of occurrence, and that it should be focused, practical, and reasonable. To be adequate, a discussion of cumulative effects must include the following elements:

> Either (a) a list of past, present and probable future projects, including, if necessary, those outside the agency's control, or (b) a summary of projections contained in an adopted general plan or related planning document, or in a prior certified EIR, which described or evaluated regional or area-wide conditions contributing to the cumulative impact, provide that such documents are referenced and made available for public inspection at a specified location.

For the cumulative analysis within this SEIR, the list of past, present and probable future project approach was utilized, as provided by the County and summarized in Table 19-1. The effects of past, present, and near future projects on the environment are reflected by the existing conditions in the project area as described in under each resource topic. Probable future projects are those in the project vicinity that have the possibility of interacting with the project to generate a cumulative impact (based on proximity and construction schedule) and either:

- are partially occupied or under construction,
- have received final discretionary approvals,
- have applications accepted as complete by local agencies and are currently undergoing environmental review, or

- are proposed projects that have been discussed publicly by an applicant or that otherwise become known to a local agency and have provided sufficient information about the project to allow at least a general analysis of environmental impacts.

It should be noted that the County recently adopted the West Jackson Highway Master Plan (WJHMP), shown as Cumulative Project #11 in Table 19-1, which includes the project site and proposed expansion areas within its master plan area (County of Sacramento 2025). With approval of the WJHMP, the project site would be subject to the WJHMP's land use plan for the site after the project site has been completely reclaimed in accordance with the Amended Reclamation Plan.

Table 19-1 Cumulative Project List

Project Number	Project Name	Location	Description	Status
	Unincorporated Sacramento County			
1	Vineyard Springs Comprehensive Plan	South-central portion of Sacramento County	2,650 acres bounded by Gerber Road to the north, Calvine Road to the south, Excelsior Road on the east, and Bradshaw Road on the west	Approved
2	North Vineyard Station Specific Plan	South-central portion of Sacramento County	1,594 acres bound by Florin Road to the north, Gerber Road to the south, Vineyard Road to the east, and Elder Creek on the west	Approved
3	Florin Vineyard Gap Community Plan	Within the community plan areas of Vineyard and South Sacramento	3,872 acres bounded by Elder Creek Road on the north, Bradshaw Road on the east, Churchill Downs neighborhood to the south, and Union Pacific Railroad tracks on the west	Approved
4	Mather Airport Master Plan	10425 Norden Ave, Mather	Establishes a program for modifications of existing facilities and development of new facilities through 2035	Approved
5	NewBridge Specific Plan	Eastern Sacramento County along SR 16	1,095 acres	Approved
6	Mather South Community Master Plan	Eastern Sacramento County along SR 16	884 acres located northeast of the plan area	Approved
7	Jackson Township Specific Plan	Eastern Sacramento County along SR 16	1,391 acres east of Excelsior Road and SR 16, west of Eagles Nest Road, and south of Keifer Boulevard	Approved
8	Stoneridge Quarry	Eastern Sacramento County south of Highway 50	Quarry mining and processing of materials on 619 acres of a 1,360-acre property	Approved

Project Number	Project Name	Location	Description	Status
9	Teichert Quarry	Eastern Sacramento County south of Highway 50	Quarry mining and operation of a processing plant on 380 acres of a 584-acre property for 25 years	Approved
10	West Jackson Highway Master Plan	Bounded by Jackson Road (State Highway 16), Kiefer Boulevard, and Goethe Road to the north; portions of Elder Creek Road and Florin Road to the south; the City of Sacramento to the west; and Excelsior Road to the east	consists of 484 parcels totaling approximately 5,913 acres for residential development (16,484 units); commercial, employment, industrial land (988 acres); parks and open spaces (2,101 acres); six elementary schools, one middle school, and one high school	Approved June 2025
	City of Rancho Cordova			
11	Arboretum	Within the Grant Line North Planning Area	1,349 acres bounded by Highway 16 to the south, Grant Line Road to the east, Kiefer Boulevard to the north, and Sunrise Boulevard to the west	Currently Inactive
12	Suncreek Specific Plan	Located in southern Rancho Cordova	1,265 acres located east of the Folsom Canal	Approved 2013
13	Sunridge Ranch Specific Plan	Located in southern Rancho Cordova	2,606 acres south of Douglas Road, east of Sunrise Boulevard, and north of Grantline Road	Approved 2002. Under construction.
14	Rio del Oro Specific Plan	Located in central Rancho Cordova	3,828 acres south of White Rock Road, east of Sunrise Boulevard, and north of Douglas Road	Approved 2010. Under construction.
15	Westborough Specific Plan	Located in central Rancho Cordova	1,695 acres north of White Rock Road and including Rancho Cordova Parkway	In Process

Project Number	Project Name	Location	Description	Status
16	Rancho Cordova General Plan	City of Rancho Cordova	All land uses assumed in the City of Rancho Cordova General Plan	Approved
	City of Folsom			
17	Folsom South of 50 Specific Plan	Eastern Sacramento County, south of US 50 and west of Folsom city limits	3,510 acres south of US 50, north of White Rock Road, east of Prairie City Road, and west of Sacramento/El Dorado County Line	Approved 2011, under construction
	City of Sacramento			
18	Aspen 1/New Brighton	Eastern city of Sacramento at county line	232 acres at the corner of SR 16 and Watt Avenue	Approved 2015
19	West Broadway Specific Plan	Central city of Sacramento	292 acres area generally bounded by the Sacramento River on the west; US Highway 50 and Broadway on the north; Muir Way and 5th Street on the east; and 4th Avenue on the south.	Approved 2020
	City of Elk Grove			
20	Southeast Industrial Area	East of Grant Line Road and SR 99	Southeast Industrial Area (382 acres annexed to city of Elk Grove in 2019), potential for additional 189 acres to be annexed in future	Approved 2019
21	Elk Grove Crossing Specific Plan	Within the Kammerer/Hwy 99 Sphere of Influence Area between the future extension of Big Horn Boulevard on the west and the future extension of Murphy's Corral Road on the east.	319 acres including high and medium density residential, commercial, office, retail, entertainment, and light industrial/"flex" uses.	In process

Project Number	Project Name	Location	Description	Status
22	Southeast Policy Area (SEPA)	North of Kammerer Road, east of Bruceville Road, west of Hwy 99	1,200 acres including industrial/"flex" uses, mixed use, offices, parks, schools, and residential uses.	SEPA approved 2014, land use amendment that established the Livable Employment Area Community Plan that includes the approved Elk Grove Zoo site was approved in 2023. Portions of area under construction.
23	Bilby Ridge	South of Bilby Road, north of the Planned Kammerer Road extension, between Bruceville Road and Willard Parkway	484 acres planned for residential, retail, service commercial, schools, parks, and open space	In process
24	General Plan Amendments /Vehicle Miles Traveled Guidelines Update Project	City Planning Area	Established the Livable Employment Area Community Plan (LEA Community Plan); update City's VMT thresholds and guidelines; and includes various other General Plan land use adjustments including amendments to the South and West Study Areas.	Approved. Land use amendment that established the Livable Employment Area Community Plan was approved in 2023

Source: Provided by Sacramento County in 2025.

CUMULATIVE ISSUE AREAS

Cumulative impacts for each technical area are discussed below. Significance criteria, unless otherwise specified, are the same for cumulative impacts as project impacts for each environmental topic area. With the exception of resource categories in which separate modeling of cumulative conditions has been conducted for evaluation against the established threshold (i.e., air quality, noise, transportation), resource evaluations are presented wholistically below. When considered in relation to other probable future projects, cumulative impacts to some resources could be significant and more severe than those caused by the project alone.

AESTHETICS

CUMULATIVE SETTING

The viewshed for the cumulative aesthetics setting is located in eastern Sacramento County, which encompasses the project site and vicinity and includes viewing groups which are mostly composed of people traveling along arterial roadways which traverse the viewshed, such as Jackson Road (State Highway 16), Elder Creek Road, Florin Road, and Bradshaw Road. As described in Chapter 5, “Aesthetics,” of this SEIR, this is a non-urbanized area that has experienced substantial disturbance and is planned for increasing urbanization under the WJHMP, Florin-Vineyard Community Plan, and North Vineyard Station Specific Plan. The overall visual character of the area has been shaped by past mining activity, industrial development, and development of single-family homes.

In addition to the project site, the projects listed in Table 19-1 are in the general vicinity of the project area that would alter the visual character of the area. Therefore, they are considered within the cumulative evaluation. The project vicinity has many active and reclaimed surface mining facilities resulting in numerous mining pits in the area. The determination of the significance of aesthetic impacts of those pits has varied over time. However, current significance determinations in Sacramento County consider any large, open mining pit to be a significant impact due to the irreversible change to the landform.

In addition, implementation of the WJHMP will result in the long-term development of new residential, commercial, and open space uses within the project area. The WJHMP includes approximately 5,913 acres and designates a variety of urban land uses in the project area that was previously and currently used by Teichert Aggregates and Granite Construction for aggregate mining (County of Sacramento 2025). The WJHMP Final EIR determined that implementation of the proposed plan would result in significant and unavoidable cumulative impact related to aesthetic resources (County of Sacramento 2025). Therefore, there is an existing significant cumulative condition related to aesthetic resources.

2016 Final EIR Determination

The 2016 Final EIR determined that because implementation of the approved project would result in significant and unavoidable project-level impacts to aesthetics due to the permanent alteration of the site's landform, the approved project would exacerbate the existing cumulative aesthetics impacts associated with other mining pits in the viewshed. Therefore, the 2016 Final EIR determined the approved project's contributions to cumulative aesthetic impacts as significant and unavoidable (Chapter 18, "Summary of Impacts and Their Deposition").

Proposed Project Cumulative Impacts Evaluation

As discussed in Chapter 4, "Aesthetics," while the implementation of the Adopted 2016 Final EIR Mitigation Measures AE-1 and AE-2 would reduce project-level impacts related to new sources of light and glare to less than significant, project-level impacts related to the degradation of existing character or quality of public views of the site and its surroundings would remain significant and unavoidable. This is because implementation of the proposed project would result in the permanent alteration of the site's landform, similar to the approved project. When considered with the cumulative projects listed in Table 19-1, the proposed project would significantly contribute to the significant cumulative aesthetics impacts as the permanent change in the project site's landform would exacerbate the existing cumulative aesthetics impacts. Therefore, the proposed project's contribution to cumulative aesthetics impacts would be cumulatively considerable. As such, overall cumulative aesthetics impacts would remain **significant and unavoidable**.

Mitigation Measures

Implement of Adopted 2016 Final EIR Mitigation Measures AE-1 and AE-2.

Agricultural Resources

Cumulative Setting

The cumulative setting for agricultural resources is the Sacramento Area Council of Governments' (SACOG's) region. The 2019 EIR for the SACOG MTP/SCS estimates that approximately 0.1 percent of all existing Farmland Mapping and Monitoring Program (FMMP) designated farmland in the SACOG region will be converted to non-agricultural uses as a result of planned development, including under the WJHMP (SACOG 2019). Important Farmland is located to the south of the project site. Furthermore, lands converted from agricultural use to non-agricultural use typically do not return to agricultural use at a later date but become part of a more urban condition.

Cumulative projects would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts to the greatest extent feasible. However, as described in Chapter 5, "Agricultural Resources," over the 6-year period from 2014 to 2020, the California Department of Conservation estimates that the total acreage of Important Farmland in Sacramento County decreased by approximately 1,371 acres annually,

with notable losses to Prime Farmland and gains in Farmland of Statewide Importance and Unique Farmland (DOC 2016, 2020). The documented past conversion of agricultural lands combined with the projected loss of farmland due to anticipated regional development creates an existing significant cumulative condition related to agricultural resources.

2016 Final EIR Determination

The 2016 Final EIR determined that the approved project would result in less-than-significant impacts on agricultural resources with implementation of Mitigation Measure AG-1, which requires the dedication of agricultural easements to mitigate for the conversion of onsite farmland. While this mitigation will retain farmland of equal value and size in another part of Sacramento County, an overall loss of the original farmland would occur as the mitigation only preserves existing farmland and does not create any new farmland. Even though other cumulative projects in the area would also include mitigation to account for the conversion of agricultural land to non-agricultural uses, including mining uses, implementation of these projects would also not create new farmland and could result in the conversion of thousands of acres of farmland within the county. Some of these mines have reclamation plans to return to farmland after mining but they are now located within master plan areas that ultimately seek to urbanize the land. Therefore, the approved project, in combination with other cumulative projects, would have impacts to farmland that are cumulatively considerable and the approved project's cumulative contribution to agricultural resources impacts is significant and unavoidable (Chapter 18, "Summary of Impacts and Their Deposition").

Proposed Project Cumulative Impacts Evaluation

As discussed in Chapter 5, "Agricultural Resources," implementation of the proposed project would convert approximately 69.84 acres of Important Farmland to non-agricultural use, including 4 acres of Farmland of Statewide Importance and 65.84 acres of Farmland of Local Importance (see Table 5-2). This constitutes a significant loss under 2030 General Plan Policy AG-5, which defines substantial loss of farmland as conversion of more than 50 acres of farmland designated as Prime Farmland, Farmland of Statewide Importance, Unique Farmland, and Farmland of Local Importance located inside of the Urban Services Boundary (USB). While implementation of Revised 2016 Final EIR Mitigation Measure AG-1 would mitigate this impact at a 1:1 ratio through the participation in the South Sacramento Habitat Conservation Plan (SSHCP) consistent with Policy AG-5 of the 2030 General Plan, agricultural conservation easements cannot mitigate the direct impacts of farmland conversion because they do not create new farmland to replace that which is lost. Other agricultural lands may be preserved through compliance with mitigation, but new agricultural soils, which is a finite resource, would not be created. Therefore, there would be a substantial net loss of agricultural production within Sacramento County as a result of the proposed project. When considering the proposed project in combination with the other cumulative projects listed in Table 19-1, the proposed project's contribution to cumulative impacts related to agricultural resources would be cumulatively considerable. As such, overall cumulative agricultural resources impacts would remain **significant and unavoidable**.

It should be noted that the proposed project's Important Farmland loss is already planned to occur from the implementation of the WJHMP as identified in the WJHMP Final EIR (County of Sacramento 2025).

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measure AG-1.

AIR QUALITY

CUMULATIVE SETTING

The project site is within the jurisdiction of the Sacramento Metropolitan Air Quality Management District (SMAQMD), specifically within the Sacramento Valley Air Basin (SVAB). The SVAB is considered the cumulative setting for regional air quality impacts. Sacramento County is currently in nonattainment for ozone, respirable particulate matter (PM_{10}), and fine particulate matter ($PM_{2.5}$) with respect to the California ambient air quality standards (CAAQS) and is in nonattainment for ozone and $PM_{2.5}$ with respect to the national ambient air quality standards (NAAQS).

Ozone impacts are the result of cumulative emissions from numerous sources in the region and transport from outside the region. Ozone is formed in chemical reactions involving reactive organic gases (ROG), oxides of nitrogen (NO_X), and sunlight. All but the largest individual sources emit NO_X and ROG in amounts too small to have a measurable effect on ambient ozone concentrations by themselves. However, when all sources throughout the region are combined, they can result in severe ozone problems.

Particulate matter (PM), including PM_{10} and $PM_{2.5}$, have a similar cumulative regional emphasis when they are entrained into the atmosphere and build to unhealthful levels over time. PM also has the potential to cause significant local problems during periods of dry conditions accompanied by high winds, and during periods of heavy earth–disturbing activities. PM may have cumulative local impacts if, for example, several unrelated grading or earth moving activities are underway simultaneously at nearby sites. Operation-related PM is less likely to result in local cumulative impacts as operational PM sources tend to be spread throughout the region (i.e., vehicles traveling on roads), not affecting any one receptor. However, substantial increases in traffic on roadways already experiencing high traffic volumes may result in considerable contributions to nearby existing land uses.

Although carbon monoxide (CO) can accumulate with traffic at intersections, it is recommended to be evaluated locally, and not regionally because it disperses rapidly with distance from the source under normal meteorological conditions. Toxic air contaminants (TACs) behave similarly. Therefore, CO and TACs are not significant at a regional air-basin level.

Cumulative development as identified in Table 19-1 would continue to increase the concentration of air pollutants from traffic, natural gas combustion in buildings, area sources, and stationary sources, but would be partially offset by state and federal

policies that set emissions standards for mobile and non-mobile sources. Furthermore, cumulative projects would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts to the greatest extent feasible. Nonetheless, because of the existing nonattainment status of Sacramento County (as discussed above), there is an existing adverse cumulative condition regarding air quality. Therefore, ROG, NO_X, and PM emissions from cumulative development are cumulatively significant in the SVAB.

2016 Final EIR Determination

The 2016 Final EIR determined that the approved project would result in significant and unavoidable project-level impacts to air quality, even with implementation of Mitigation Measures AQ-1.1 and AQ-1.2, due to the use of heavy-duty equipment during surface mining operations. While implementation of the mitigation measures would limit the amount heavy-equipment used near sensitive receptors, which would reduce impacts, air quality impacts associated with the approved project would not be eliminated. Thus, the approved project would substantially contribute to cumulative air quality impacts and cumulative air quality impacts would be significant and unavoidable (Chapter 18, “Summary of Impacts and Their Deposition”).

Proposed Project Cumulative Impacts Evaluation

Long-term Operational Emissions of Criteria Air Pollutants and Precursors

Sacramento County is in nonattainment for ozone and PM_{10} with respect to the CAAQS, and for ozone and $PM_{2.5}$ with respect to NAAQS. Construction activities in the region would emit additional particulate matter and ozone precursors that may conflict with attainment efforts in the county. Because the region is in nonattainment, the existing cumulative condition is adverse, and any additional emissions would exacerbate that condition. SMAQMD has established construction emission thresholds for individual construction and operational projects, which determines whether that particular project’s emissions would be cumulatively considerable (SMAQMD 2020). As detailed in Impact AIR-1, implementation of the proposed project would result in project-related criteria pollutants emissions would be below thresholds, with the exception of PM (PM_{10} and $PM_{2.5}$) which would exceed SMAQMD thresholds. However, implementation of Adopted 2016 Final EIR Mitigation Measure AQ-1.2 would reduce PM_{10} and $PM_{2.5}$ emissions below SMAQMD thresholds. Therefore, the proposed project’s contribution to criteria pollutants emissions would not be cumulatively considerable and thus not significant.

However, the 2016 Final EIR determined that criteria pollutants emissions related to operation of the approved project would be significant and unavoidable even with implementation of Adopted 2016 Final EIR Mitigation Measures AQ-1.1 and AQ-1.2. Therefore, while the proposed project’s contribution to cumulative criteria pollutants emissions impacts would not be substantial, the overall project’s contribution to this cumulative impact would be cumulatively considerable. As such, the overall cumulative impact would remain **significant and unavoidable**.

MOBILE-SOURCE CO CONCENTRATIONS

As detailed in Impact AIR-2, the proposed project would continue to use the existing electric conveyor belt system and would thus avoid pollutant emissions related to haul trucks. Additionally, the proposed project would utilize existing employees and would not result in new vehicle trips and associated emissions above existing conditions. Thus, implementation of the proposed project would not have the potential to increase traffic volumes at affected intersections to greater that 44,000 vehicles per hour. Being that the 2016 Final EIR evaluated cumulative impacts related to CO emissions and found impacts to be less than significant, the proposed project would not result in a new impact compared to the findings of the 2016 EIR. The proposed project's contribution to cumulative CO impacts would not be cumulatively considerable. The overall cumulative impact would remain **less than significant**.

EXPOSURE OF SENSITIVE RECEPTORS TO TACS

TACs, which are examined under Impact AIR-3, are also pollutants of localized concern. High concentrations of TACs within urban areas may result from heavy vehicle traffic, industrial sources, or other sources, which when in close proximity to one another could result in unhealthy air quality conditions for nearby receptors, which would be considered a significant cumulative impact. However, due to the highly dispersive properties of TACs evaluated, emissions do not typically combine from construction or new stationary sources with other adjacent sources to result in cumulative impacts. Because of the localized nature of TACs and that the proposed project's impacts related to TACs emissions would be less than significant, the proposed project's contribution to cumulative TACs impacts would not be cumulatively considerable. The overall cumulative impact would remain **less than significant**.

CONFLICT WITH AN APPLICABLE AIR QUALITY PLAN

SMAQMD provides guidance for evaluating air quality impacts. In accordance with SMAQMD guidance, the proposed project was evaluated qualitatively for consistency with the most recently adopted air quality plan in the region. Specifically, the proposed project was compared to the *2023 Sacramento Regional Plan for the 2015 70 ppb 8-Hour Ozone Standard*, adopted in October 2023, and the 2020 MTP/SCS. The analysis in Impact AIR-4 concluded that, because the proposed project would not induce growth and would not result in a change in land use type, emissions from the proposed project would not exceed those accounted for in the *2023 Sacramento Regional Plan for the 2015 70 ppb 8-Hour Ozone Standard* or SACOG's MTP/SCS. Additionally, the analysis in Impact AIR-4 concluded that implementation of the proposed project would not exceed SMAQMD criteria pollutants emissions thresholds with implementation of SMAQMD's dust-reducing best management practices (BMPs) (Adopted 2016 Final EIR Mitigation Measure AQ-1.2), which enable the use of SMAQMD's non-zero thresholds for PM emissions. Thus, implementation of the proposed project would not conflict with Sacramento County's plan to maintain the PM_{10} NAAQS. In addition, SMAQMD-adopted significance thresholds are cumulative in nature; that is, they identify whether the level of project-generated emissions above which impacts would be cumulatively considerable. Therefore, the project's contribution to cumulative impacts related to

conflict with an applicable air quality plan would not be cumulatively considerable. The cumulative impact would be **less than significant.**

EXPOSURE OF SENSITIVE RECEPTORS TO ODORS

Odors emitted in the exhaust of on-site engines during construction, particularly diesel-fueled engines, may be considered offensive to some individuals. The generation of these odorous emissions and any potential exposure of receptors to these odors would vary on a day-to-day basis depending on the type and location of on-site activities taking place. However, the types of diesel emitting equipment and associated odors would be similar to those already occurring under the previously approved project. Such emissions would be intermittent in nature and would dissipate rapidly with increasing distance from the source. For these reasons, the proposed project would not result in the exposure of a substantial number of people to objectionable odors. The proposed project's contribution to cumulative odors impacts would not be cumulatively considerable. As such, overall cumulative impact would remain **less than significant**.

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measures AQ-1.2. Adopted 2016 Final EIR Mitigation Measure AQ-1.1 would not be applicable to the proposed project.

AIRPORT COMPATIBILITY

CUMULATIVE SETTING

The cumulative boundary for airport compatibility is generally the areas in the immediate vicinity near the jurisdictional boundary of the Mather Airport Land Use Compatibility Plan (ALUCP). According to the Mather Airport ALUCP, the entire Aspen VIII Expansion Area is located within the Mather Airport Safety Zone 6 and a portion of the Aspen VIII Expansion Area is located within the CNEL 60 zone. The airport is 2,239 acres in size and the airport elevation is 98.3 feet AMSL. Mather Airport is surrounded by a mix of residential, commercial, industrial, and open space land uses, including the Mather Preserve. Through the ALUCP, land use is regulated to ensure that potential incompatibilities from new development do not occur.

Cumulative development, including development of the NewBridge, Mather South, Jackson Township, and WJHMP projects, would introduce new residents in the vicinity. All projects in the region would be developed to comply with the ALUCP, through implementation of mitigation measures if required. In addition, the cumulative projects identified in Table 19-1 would be subject to individual environmental analysis and mitigation, as necessary, to reduce project-specific impacts to the greatest extent feasible, in addition to complying with regulatory requirements related to airport compatibility (as applicable to each project). As such, no existing cumulative airport compatibility conditions are present within the Mather ALUCP.

2016 Final EIR Determination

The 2016 Final EIR did not include a cumulative evaluation related to airport compatibility and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, “Summary of Impacts and Their Deposition”).

Proposed Project Cumulative Impacts Evaluation

The proposed project would involve surface mining activities and would not introduce new sensitive receptors adjacent to the Mather Airport or within the ALUCP. As discussed in Chapter 6, “Airport Compatibility,” surface mining is a compatible use in Safety Zone 6 and within the 60-65 dB and 65-70 dB CNEL noise contour lines of the Mather Airport. The proposed project would not result in structures that would affect the navigable airspace of the airport. In addition, incidence of bird-aircraft collisions would not be expected to change under post-project conditions due to the distance of the proposed expansion areas from Mather Airport, the different heights at which aircraft and bird fly over the project site, and the similarity of pre- and post-project habitat conditions. Therefore, the proposed project, when combined with other cumulative projects, would not result in a considerable contribution such that a new significant cumulative impact would occur. Therefore, cumulative airport compatibility impacts would be **less than significant**.

Mitigation Measures

No mitigation is required.

Biological Resources

Cumulative Setting

Generally, the geographic extent of cumulative impacts on biological resources consists of Sacramento County that supports similar biological resource values and functions to those of the project site. Past and present actions by humans have substantially altered biological resources in Sacramento County, specifically, compared to historical conditions. Among the most important of these past actions have been conversion of natural vegetation and habitats to agricultural and developed land uses; fill and alteration of aquatic habitats; flood control and water supply projects; and the introduction of invasive species, which in many cases have competed with, preyed upon, and degraded habitat for native species. More recently, the large-scale conversion of agricultural habitats to urban land uses within the county has resulted in substantial loss of habitat for species such as state-listed Swainson’s hawk that have adapted to use agricultural habitats in response to loss of their natural habitats.

Past, present, and foreseeable future urbanization in Sacramento County, including the WJHMP in the proposed project area, has contributed, and continues to contribute substantially to the loss of grassland, wetland, and agricultural habitats that are important to many species in the region, including state and federally listed species like Swainson’s hawk, vernal pool fairy shrimp, and vernal pool tadpole shrimp. The

continued conversion of natural habitats would contribute to the ongoing decline of these habitats in the region and in the state.

The SSHCP was being developed at the time of preparation of the 2016 Final EIR and has since been adopted as a comprehensive approach to cumulative biological resources impacts in the southern portion of Sacramento County. With the adoption of the SSHCP, cumulative projects, including the WJHMP and future projects developed under the master plan, would be able to mitigate impacts related to biological resources, including those connected with the conversion of habitats. Furthermore, cumulative projects would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts to the greatest extent feasible. While each cumulative project would incorporate project-specific mitigation measures and would participate in the SSHCP, as applicable, the loss of grassland, wetland, and agricultural habitats and continued conversion of natural habitats would continue to occur within the southern portion of Sacramento County. Therefore, a significant cumulative condition related to biological resources exists.

2016 Final EIR Determination

The 2016 Final EIR determined that implementation of the approved project would have a significant effect on special status species, wetlands, and trees, which would be reduced to less than significant with implementation of mitigation. The other mining facilities and projects in the vicinity have a similar effect on biological resources. Singularly, all of the projects are required to mitigate their biological impacts and generally it is determined that such mitigation reduces individual impacts to less than significant. With the individual mitigation and compliance with any required State or federal endangered species permitting, cumulative impacts to biological resources within Sacramento County are less than significant (Chapter 18, “Summary of Impacts and Their Deposition”).

The 2016 Final EIR notes that as growth continues, the available lands for mitigating biological impacts are diminishing and mitigation is occurring across the landscape without any particular strategy or application of a comprehensive plan that would assure biological and functional success. As mentioned above, to address this, the SSHCP has been adopted since the time of preparation of the 2016 Final EIR, which provides a comprehensive approach to cumulative biological resources impacts in the southern portion of Sacramento County. Since certification of the 2016 Final EIR, the SSHCP was adopted.

Proposed Project Cumulative Impacts Evaluation

As described in Chapter 8, “Biological Resources,” proposed project implementation could result in potentially significant impacts on western spadefoot, ferruginous hawk, loggerhead shrike, northern harrier, Swainson’s hawk, tricolored blackbird, western burrowing owl, white-tailed kite, Crotch's bumble bee, midvalley fairy shrimp, Ricksecker’s water scavenger beetle, vernal pool fairy shrimp, vernal pool tadpole shrimp, pallid bat, and western red bat, native birds protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code, state and federally protected

wetlands, trees protected under the Sacramento County Tree Preservation Ordinance, and wildlife nurseries. Furthermore, potentially significant impacts related to conflict with Sacramento County General Plan policies and the SSHCP may also occur as a result of proposed project implementation. However, implementation of Adopted 2016 Final EIR Mitigation Measure BR-1.7 and New Mitigation Measures BR-1.13 through BR-1.17, BR-3.2, BR-4.1, and BR-4.2 would offset the proposed project's contribution to cumulative biological resource impacts by avoiding impacts on these species and habitats or compensating for habitat and species impacts.

Therefore, the project's potential contribution to impacts related to special-status wildlife species, state and federally protected wetlands, trees protected under the Sacramento County Tree Preservation Ordinance, wildlife nurseries, and conflict with Sacramento County General Plan policies and the SSHCP would not result in considerable contribution to an existing significantly adverse cumulative condition. Therefore, cumulative biological resources impacts would be **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measure BR-1.7 and New Mitigation Measures BR-1.13, BR-1.14, BR-1.15, BR-1.16, BR-1.17, BR-3.2, BR-4.1, and BR-4.2.

CULTURAL RESOURCES

CUMULATIVE SETTING

The geographic scope for the analysis of cumulative impacts to cultural resources is Sacramento County. Archaeological resources exist throughout the cumulative area and are most likely to be intact in areas that have not been previously disturbed through urbanization or mining. Because all significant archaeological resources are unique and nonrenewable members of finite classes, all adverse effects or negative impacts erode a dwindling resource base. The loss of any one archaeological site affects all others in a region because these resources are best understood in the context of the entirety of the cultural system of which they are a part. The cultural system is represented archaeologically by the total inventory of all sites and other cultural remains in the region. Furthermore, cumulative projects would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts to the greatest extent feasible. As such, cumulative development in the region could result in ongoing substantial adverse changes in the significance of cultural resources, resulting from urban development and conversion of natural lands, which results in a significant cumulative condition related to cultural resources.

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include a cumulative evaluation related to cultural resources and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, "Summary of Impacts and Their Deposition").

Proposed Project Cumulative Impacts Evaluation

As described in Chapter 9, “Cultural Resources,” no known historical or unique archaeological resources or human remains are located within the boundaries of the project site. Nonetheless, project-related earth-disturbing activities could damage undiscovered archaeological resources or human remains. However, implementation of Revised 2016 Final EIR Mitigation Measure would ensure impacts to undiscovered archaeological resources and human remains would be mitigated to a less-than-significant level as it would require the performance of professionally accepted and legally compliant procedures for the discovery and protection of previously unknown archaeological resources and buried human remains. As such, the proposed project would not result in a considerable contribution to a significant cumulative impact related to cultural resources. Therefore, cumulative impacts would be **less than significant with mitigation incorporated**.

Mitigation Measures

Implement Revised 2016 Final EIR Mitigation Measure CR-2.

Energy

Cumulative Setting

The geographic area considered for cumulative impacts regarding energy use is Sacramento County and the service area for Sacramento Municipal Utility District (SMUD). SMUD employs programs and mechanisms to support provision of services for new developments to be built within their service territory. The most common mechanism includes connection fees to recoup the cost of infrastructure required to service new developments through standard billing services. Additionally, energy efficiency, power management strategies, and conservation measures that reduce energy demand in existing development can serve to reduce additional energy infrastructure and services required for new development.

SMUD purchases, generates, and distributes electric power to a 900-square-mile service area in Sacramento County. Electricity purchased and produced by SMUD is generated from a variety of sources including hydro generation; cogeneration plants; advanced and renewable technologies such as wind, solar, and biomass/landfill gas power; and power purchased on the wholesale market. Various federal, state, and local regulations govern the use of energy to limit the potential for wasteful, inefficient, or unnecessary consumption of energy.

Furthermore, cumulative projects in the SMUD service area would also receive electricity service from SMUD and consume energy related to transportation and construction. They would be required to implement energy-efficiency measures in accordance with Title 24 to reduce energy demand. In addition, cumulative projects would also be required to undergo individual environmental analysis and be subject to mitigation, as necessary, which would ensure energy impacts are minimized to the greatest extent feasible.

Sacramento County has approved four specific and community master plans within the Jackson Road (SR 16) corridor, consisting of the WJHMP, the NewBridge Specific Plan, the Jackson Township Specific Plan, and the Mather South Community Master Plan, each of which underwent separate evaluations for environmental impacts. Buildout of the plans would occur across a 20-plus year horizon, where each environmental document prepared for the plans included the necessary upgrades to SMUD's energy infrastructure to support their land uses and projected growth. As the required energy infrastructure would be developed in pace with development under these four plans, SMUD projects that adequate energy supplies would be available to serve the project area through the 20-year build out horizon of these four plans. As such, no significant cumulative condition related to energy exists within SMUD's service area within Sacramento County.

2016 Final EIR Determination

The 2016 Final EIR did not include a cumulative evaluation related to energy and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, "Summary of Impacts and Their Deposition").

Proposed Project Cumulative Impacts Evaluation

As discussed in Chapter 10, "Energy", implementation of the proposed project would result in less-than-significant project-level energy impacts. The proposed project would avoid energy consumption related to off-site haul trucks, as all mined material would be transported onsite via the existing electric conveyor belt system and would not require additional employees beyond the existing levels and, as such, would not result in additional employee commute trips. Furthermore, as SMUD already provides electric service to the approved project site, the extension of the existing conveyor belt system would only require a minimal increase in electricity compared to existing conditions under the approved project, where implementation of the proposed project would not result in an extraordinary demand such that it would create an adverse physical impact on the provision of electrical services provided by SMUD. The proposed project would be consistent with the SMUD's 2030 Zero Carbon Plan and 2022 IRP and the State's 2022 Scoping regarding energy.

As such, the proposed project, when considered with other cumulative projects, would not result in a significant cumulative impact. Therefore, cumulative impacts related to energy would be **less than significant**.

Mitigation Measures

No mitigation is required.

Geology, Soils, and Mineral Resources

Cumulative Setting

Impacts on geology and soils are generally localized and do not result in regionally cumulative impacts. Unless a project would alter the soils and rock underlying other

adjacent projects or affect surrounding land due to landslides, impacts related to geology and soils would be limited to the project site. Therefore, the geographic scope of cumulative impacts related to geology and soils include development immediately adjacent to the project site.

All developments are subject to, at a minimum, site development and construction standards relative to seismic and other geological conditions that are prevalent with the region, such as the California Building Code standards. Development that disturbs more than 1 acre is subject to compliance with a National Pollutant Discharge Elimination System (NPDES) permit, including the implementation of BMPs, some of which are specifically implemented to reduce soil erosion or loss of topsoil, and the implementation of a Stormwater Pollution Prevention Plan (SWPPP) through the local jurisdiction. No existing significant cumulative geology or soils conditions are present on or near the project site with compliance of existing regulations.

The geographic scope of potential cumulative impacts related to mineral resources is Sacramento County. Development in the region could preclude mining operations in a manner that could be considered significant in a cumulative setting. Cumulative development could result in a reduction in availability of important designated mineral resources by making certain mineral resources inaccessible for future extraction. As such, due to past and current projects, cumulative conditions related to mineral resources in Sacramento County are considered significant.

The geographic scope of potential cumulative impacts related to paleontological resources is the Sacramento region. Because all significant paleontological resources are unique and nonrenewable members of finite classes, all adverse effects or negative impacts erode a dwindling resource base. The loss of any one paleontological site affects all others in a region because these resources are best understood in the context of the entirety of the system of which they are a part. The system is represented by the total inventory of all sites and other paleontological remains in the region. Therefore, because of past and current projects, cumulative conditions related to paleontological resources in Sacramento County are considered significant.

2016 Final EIR Determination

The 2016 Final EIR did not include a cumulative evaluation related to geology, soils, and mineral resources and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, “Summary of Impacts and Their Deposition”).

Proposed Project Cumulative Impacts Evaluation

As discussed in Chapter 11, “Geology, Soils, And Mineral Resources”, the proposed project would result in less-than-significant impacts related to geology and soils with implementation of Revised 2016 Final EIR Mitigation Measure GS-1 and compliance with applicable regulatory requirements. Implementation of the Revised 2016 Final EIR Mitigation Measure GS-1 would ensure that the proposed project’s contribution to impacts related to unstable soils and landslides, lateral spreading, subsidence,

liquefaction, or collapse would not be substantial. Compliance with SMARA, including CCR Sections 3711 and 3705, as enforced through the Amended Reclamation Plan, would minimize impacts related to topsoil and soil erosion, which would ensure that the project's contribution to impacts related to soil erosion would not be substantial. Therefore, the proposed project, when combined with other cumulative projects, would not result in a considerable contribution such that a new significant cumulative impact to geology and soils would occur.

In regard to mineral resources, the proposed project would result in less-than-significant impacts as the proposed project is a surface mining project, which would supply aggregate materials to the region and the state. As such, the proposed project would not preclude mining operations and the proposed project, when considered with other cumulative projects, would not result in a considerable contribution to the significant cumulative impact to mineral resources.

In addition, the proposed project would result in less-than-significant impacts related to paleontological resources with implementation of Revised 2016 Final EIR Mitigation Measure CR-2, which would ensure proper protocols are implemented in accordance with all applicable regulations in the event of discovery of paleontological resources. As such, the proposed project would not result in a considerable contribution to a significant cumulative impact related to paleontological resources.

Overall, cumulative impacts related to geology, soils, and mineral resources would be **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Revised 2016 Final EIR Mitigation Measures GS-1 and CR-2.

GREENHOUSE GAS EMISSIONS

CUMULATIVE SETTING

Prominent GHGs contributing to the greenhouse effect are CO_2, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Human-caused emissions of these GHGs in excess of natural ambient concentrations are found to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming. Climate change is a global problem caused by global pollutants and is inherently cumulative. Therefore, the cumulative setting for climate change is global, which is experiencing an existing adverse cumulative condition.

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include a cumulative evaluation related to GHG emissions and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, "Summary of Impacts and Their Deposition").

Proposed Project Cumulative Impacts Evaluation

As stated in Chapter 12, “Greenhous Gas Emissions,” the issue of global climate change is inherently a cumulative issue because the GHG emissions of individual projects cannot be shown to have any material effect on global climate. Therefore, the proposed project’s impact on climate change is addressed only as a cumulative impact. As discussed in Chapter 12, “Greenhouse Gas Emissions”, implementation of the proposed project would result in less-than-significant project-level impacts. Therefore, the proposed project, when combined with other cumulative projects, would not result in a considerable contribution to a significant cumulative impact related to GHG emissions. The cumulative impact related to GHG emissions would be **less than significant.**

Mitigation Measures

No mitigation is required.

Hazards and Hazardous Materials

Cumulative Setting

Although some hazardous materials releases can cover a large area and interact with other releases (e.g., atmospheric contamination, contamination of groundwater aquifers), incidents of hazardous materials contamination are more typically isolated to a small area, such as leaking underground storage tank sites or releases at individual businesses. These relatively isolated areas of contamination typically do not interact in a cumulative manner with other sites of hazardous materials contamination. Impacts related to emergency vehicle access and evacuation are considered site specific and are not cumulative. Furthermore, cumulative projects would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts to the greatest extent feasible. Therefore, there is no existing significant cumulative condition related to hazards and hazardous materials.

2016 Final EIR Determination

The 2016 Final EIR did not include a cumulative evaluation related to hazards and hazardous materials and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, “Summary of Impacts and Their Deposition”).

Proposed Project Cumulative Impacts Evaluation

As discussed in Chapter 13, “Hazards and Hazardous Materials”, the proposed project would comply with federal, state, and local hazardous materials regulations, including the US Department of Transportation regulations for the safe transportation of hazardous materials. In addition, the proposed project would implement Adopted 2016 Final EIR Mitigation Measure HM-1, which would require the transport, use, or disposal of hazardous materials meeting all applicable requirements. Therefore, the proposed project, when combined with other cumulative projects, would not result in a significant impact related to hazards and hazardous materials with mitigation incorporated.

The project site is within a local responsibility area that California Department of Forestry and Fire Protection (CAL FIRE) has identified as a non–very high fire hazard severity zone (CAL FIRE 2025). The proposed project does not include a residential component and as such, no residents would inhabit the project site. Consistent with Public Resources Code requirements (PRC Sections 4442 and 4428), all earthmoving and portable equipment would be equipped with spark arrestors to reduce the potential for igniting a wildland fire during the high fire danger period. Therefore, the proposed project, when combined with other cumulative projects, would not result in a significant impact related to wildfire. Cumulative impacts related to hazards and hazardous materials would be **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement Adopted 2016 Final EIR Mitigation Measure HM-1.

HYDROLOGY, DRAINAGE, AND WATER QUALITY

CUMULATIVE SETTING

The project site is within the Morrison and Elder Creek watersheds. The Morrison and Elder Creeks are the cumulative watershed boundaries for the evaluation of cumulative effects. A cumulative impact would occur if the proposed project in combination with the cumulative projects would substantially degrade water quality; decrease groundwater supplies or interfere with groundwater recharge; substantially alter existing drainage pattern that would result in increased erosion, flooding, or polluted runoff; risk release of pollutants due to inundation in flood hazard zones; or conflict with a water quality plan or sustainable groundwater management plan.

Non-point source water pollution from the combination of past, present, and future projects in the Morrison and Elder Creek watersheds may contribute to a general degradation of water quality over time. With increased urbanization, including from the WJHMP, new land uses and associated impermeable surfaces have and could continue to result in runoff of various pollutants into local and regional waterways. A variety of regulatory programs have been implemented with the goal of halting degradation of water quality and reversing this trend. Several state and federal agencies are involved in these programs, many of which are required by or originate in the federal Clean Water Act (CWA). Nonetheless, a significant cumulative water quality condition exists.

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include a cumulative evaluation related to hydrology, drainage, and water quality and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, “Summary of Impacts and Their Deposition”).

PROPOSED PROJECT CUMULATIVE IMPACTS EVALUATION

As discussed in Chapter 14, “Hydrology, Drainage, and Water Quality”, the proposed project, similar to other cumulative projects, would be required to comply with applicable

federal, state, and local laws and regulations related to hydrology, drainage, and water quality, which would minimize effects to receiving waters within the Morrison and Elder Creek watersheds as well as groundwater sources. With regulatory compliance and approval of all project-specific permits, the proposed project would result in less-than-significant impacts to hydrology, drainage, and water quality. Therefore, implementation of the proposed project, when considered with other cumulative projects, would not result in a considerable contribution to a significant cumulative impact related to hydrology, drainage, and water quality. Cumulative impacts related to hydrology, drainage, and water quality would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

NOISE

CUMULATIVE SETTING

The cumulative setting for assessment related to noise is the vicinity of the project site (i.e., within 1,000 feet), which includes land uses under the WJHMP. Noise impacts typically occur locally because noise levels dissipate rapidly with increased distance from the source. When discussing increases in noise levels, a doubling of a noise source is necessary to result in a 3 decibel (dB) (i.e., audible) increase. Thus, for cumulative noise impacts to occur, noise sources must combine to result in an increase in noise at the same receptor that otherwise would not experience the increase attributed to the combined (or cumulative) condition. Furthermore, cumulative projects, including the WJHMP and other cumulative projects listed in Table19-1, would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts the greatest extent feasible. Therefore, there is no existing significant cumulative condition related to noise.

2016 FINAL EIR DETERMINATION

The 2016 Final EIR determined that the approved project exceed ambient noise levels and would generate noise in excess of the noise standards. However, the approved project would be required to implement Mitigation Measure NO-1, which would reduce noise impacts to less than significant. The other mining operations in the vicinity would also be required to implement project-specific mitigation to mitigate for noise impacts as required by CEQA. Therefore, the 2016 Final EIR determined the approved project's contributions to cumulative noise impacts as less than significant (Chapter 18, "Summary of Impacts and Their Deposition").

PROPOSED PROJECT CUMULATIVE IMPACTS EVALUATION

As described above, noise impacts are site-specific and only combine when cumulative development is in close proximity to one another. Construction-related noise and vibration are typically considered localized impacts, affecting only receptors closest to construction activities. Therefore, unless construction and/or operation of cumulative projects, including the proposed project, occur in close proximity to each other (i.e., less

than 500 feet) and at the same time, noise and vibration from individual construction projects have little chance of combining to create cumulative impacts.

As discussed in Chapter 15, “Noise”, the proposed project would require the use of temporary noise barriers for areas of the mining footprint in close proximity to nearby residences as required by New Mitigation Measure NO-2. Besides the existing nearby residences, there are no other cumulative projects within 500 feet of the project site, which could combine with the proposed project to create cumulative noise or vibration levels. As such, noise impacts associated with the proposed project would be less than significant with incorporation of New Mitigation Measure NO-2 and vibration impacts would be less than significant. Therefore, the proposed project, when combined with other cumulative projects, would not result in a significant cumulative impact related to noise and vibration. The overall cumulative impact would remain **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement New Mitigation Measure NO-2.

PUBLIC SERVICES

CUMULATIVE SETTING

The cumulative context for police protection, fire protection, and emergency services is the County of Sacramento, which is the service area for both the Sacramento County Sheriff’s Department and Sacramento Metropolitan Fire District (Metro Fire), respectively. The cumulative context for school services is the Elk Grove Unified School District and the Sacramento City Unified School District. Finally, the cumulative context for parks and recreation facilities is the Southgate Recreation and Park District within the county. Existing services in the project area are sufficient to meet existing and projected demand. Therefore, there is no significant cumulative condition related to public services.

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include a cumulative evaluation related to public services and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, “Summary of Impacts and Their Deposition”).

PROPOSED PROJECT CUMULATIVE IMPACTS EVALUATION

No critical deficiencies in the availability of public services or recreation facilities/opportunities are identified in the evaluation of these topics in Chapter 16, “Public Services.” The proposed project itself does not propose new housing, businesses, or other land use changes that would induce unplanned population growth or increase housing demand in the area. Because implementation of the proposed project would not induce unplanned substantial population growth or result in an increase in housing demand, implementation of the proposed project would not result in the need for new or expanded fire protection facilities, police protection facilities,

schools, parks, or recreational facilities. Furthermore, implementation of the proposed project would not preclude the construction and use of the multi-use trail in the Aspen IX Expansion Area as depicted in the Southgate Master Trails Plan and dedicated by Adopted 2016 Final EIR Mitigation Measure PS-1. Other cumulative projects, as listed in Table 19-1, would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts to the greatest extent feasible. Therefore, the proposed project, when considered with other cumulative projects, would not result in a significant cumulative impact. Cumulative impacts would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

TRANSPORTATION

CUMULATIVE SETTING

The geographic scope of analysis for cumulative impacts related to vehicle miles traveled (VMT) includes the Sacramento region to account for the broader, regional impact of VMT and to ensure a comprehensive understanding of how the proposed project would contribute to environmental impacts within the interconnected transportation network. The geographic scope for the analysis of the impacts related to a program, plan, ordinance, or policy addressing the circulation system; substantially increasing hazards due to geometric features or incompatible uses; and inadequate emergency access, would be different than the geographic scope for the VMT analysis, which would include all past, present, and probable future projects that would have the potential to affect the same transit, roadway, bicycle, and pedestrian facilities within the project area and the interconnected circulation system of Sacramento County.

The cumulative projects listed in Table 19-1 would also be required to comply with all applicable design and safety standards, thus minimizing the potential for cumulative transportation-related hazards. Therefore, there is no significant cumulative condition related to transportation.

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include a cumulative evaluation related to transportation and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, “Summary of Impacts and Their Deposition”).

PROPOSED PROJECT CUMULATIVE IMPACTS EVALUATION

ROADWAY, TRANSIT, BICYCLE, AND PEDESTRIAN FACILITIES

As discussed under Impacts TR-1 and Impact TR-2 in Chapter 17, “Transportation”, the proposed project would not increase demand for transit service and facilities, bicycle facilities, and pedestrian facilities, as it would not generate new employee vehicle trips nor any on-road truck trips and would not introduce new land uses to the project area.

The proposed project would not adversely affect any existing or planned bicycle, pedestrian, or transit facilities in the vicinity of the project area. Therefore, the prosed project, when combined with other cumulative projects, would not result in a cumulatively considerable contribution to cumulative impacts related to transit service and facilities, bicycle facilities, and pedestrian facilities. Cumulative impacts would be **less than significant**.

CUMULATIVE VEHICLE MILES TRAVELED IMPACT

As detailed under Impact TR-4, the proposed project would generate fewer than 237 average daily trips (ADT), and thus meets the screening criteria for a small project included in the County Transportation Analysis Guidelines (TAG) consistent with the small project screening criteria established in the Technical Advisory (i.e., fewer than 110 new daily trips). Additionally, in accordance with the Technical Advisory, a finding of a less-than-significant project impact would imply a less than significant cumulative impact, and vice versa (OPR 2018) as VMT is inherently cumulative in nature. Thus, the proposed project is not anticipated to result in a substantial increase in VMT. In addition, the unique operational aspects of the proposed project (quarry expansion) would not combine with other planned residential, commercial, office, and industrial land uses in the project area and would cease upon reclamation of the site. Therefore, the proposed project, when combined with other cumulative projects, would not result in a cumulatively considerable contribution to cumulative impacts related to VMT. The cumulative impact would be **less than significant**.

HAZARDS DUE TO A DESIGN FEATURE OR INCOMPATIBLE USE

In general, transportation hazards are site-specific and not cumulative in nature. As discussed in Impact TR-5, all transportation related infrastructure improvements would be constructed in accordance with applicable standards to ensure that development would not result in transportation hazards or incompatible uses. With continued regulatory compliance, implementation of the proposed project, when combined with other cumulative projects, would not result in a cumulatively considerable contribution to cumulative transportation hazard impacts. Cumulative impacts would be **less than significant**.

CUMULATIVE EMERGENCY ACCESS IMPACT

Cumulative impacts associated with emergency access are primarily a localized effect. As such, the cumulative projects with the potential to result in a significant cumulative impact associated with emergency access would be those located in the vicinity (i.e., within 500 feet) of the project site that are also using primary roadways. The proposed project would be subject to, and constructed in accordance with, applicable roadway design and safety guidelines. Given that the cumulative projects within the vicinity of the project site would need to demonstrate to the County that they would not impede emergency access or cause a potential transportation-related hazard, the proposed project, when combined with other cumulative projects. would not result in a cumulatively considerable contribution to cumulative emergency access impacts. Cumulative impacts would be **less than significant**.

MITIGATION MEASURES

No mitigation is required.

TRIBAL CULTURAL RESOURCES

CUMULATIVE SETTING

The geographic scope of potential cumulative impacts related to tribal cultural resources is the former territory of the Plains Miwok within Sacramento County. The Sacramento Valley floodplains and the banks of rivers and large streams in the valley and adjacent foothills were occupied and used during the prehistoric, ethnohistoric, and historic periods with the result that archaeological resources, including human remains, are widespread and numerous within the region. River and stream drainages were often the prime locations for Native American village sites or processing camps, and for mining camps, ranches and farms, towns, and streamside transportation networks during the historic period. Prehistoric sites frequently took the form of mounds raised above the natural ground surface, but the upper portions of many of these sites are no longer visible—destroyed by modern agricultural practices, land reclamation, dam, and levee construction, hydraulic or dredge mining, or Euro-American settlement. Intermittent flooding has also deposited layers of alluvium and buried intact archaeological sites below grade with no surface manifestations. Features of historic-era archaeological sites, such as privies, trash pits, wells, foundations, and burials, have also been concealed by later land uses and discovered during subsequent development (SACOG 2019).

Cumulative projects would be subject to individual environmental analysis and mitigation measures, as necessary, in addition to regulatory compliance to reduce project-specific impacts to the greatest extent feasible. However, because all significant tribal cultural resources are unique and nonrenewable members of finite classes, all adverse effects or negative impacts erode a dwindling resource base. The loss of any one resource affects all others in a region because these resources are best understood in the context of the entirety of the cultural system of which they are a part. Therefore, because of past and current projects, cumulative conditions related to tribal cultural resources in Sacramento County are considered significant.

2016 FINAL EIR DETERMINATION

The 2016 Final EIR did not include a cumulative evaluation related to tribal cultural resources and thus, did not include a significance determination for cumulative impacts related to this resource area (Chapter 18, “Summary of Impacts and Their Deposition”).

PROPOSED PROJECT CUMULATIVE IMPACTS EVALUATION

As described in Chapter 18, “Tribal Cultural Resources,” no tribal cultural resources have been identified within the unincorporated county as a result of AB 52 consultation. Therefore, no measures were identified through AB 52 consultation process. However, positive results from a records search of the Sacred Land Files (SLF) were returned on February 2, 2024, which indicates that a tribe or multiple tribes have indicated the presence of sacred sites which could potentially be considered a tribal cultural resource. To ensure impacts to tribal cultural resources are minimized, the proposed project would implement New Mitigation Measure TCR-1 and Revised 2016 Final EIR Mitigation Measure CR-2, which addresses any inadvertent discovery of tribal cultural

resources, including cessation of ground-disturbing activities proximate to the discovery and notification of the appropriate tribal representative(s). In addition, compliance with PRC Section 21080.3.2 and Section 21084.3 (a) and the County's continuing notification of the tribes of all projects subject to CEQA would provide an opportunity to avoid or minimize the disturbance of tribal cultural resources, and to appropriately treat any tribal cultural resources that are discovered. Therefore, the proposed project, when combined with other cumulative projects, would not result in a considerable contribution to an existing significant cumulative impact related to tribal cultural resources. The cumulative impact would be **less than significant with mitigation incorporated**.

MITIGATION MEASURES

Implement New Mitigation Measure TCR-1 and Revised 2016 Final EIR Mitigation Measure CR-2.

GROWTH INDUCEMENT

Growth can be induced through the elimination of obstacles to growth, through the stimulation of economic activity within the region, or through the establishment of policies or other precedents that directly or indirectly encourage additional growth. An EIR must discuss ways in which a project could directly or indirectly foster economic or population growth, or result in the construction of additional housing (Section 15126.2[d] of the State CEQA Guidelines). Although growth inducement itself is not considered an environmental effect, it could potentially lead to adverse environmental effects. Examples of projects likely to have significant growth-inducing impacts include extensions or expansions of infrastructure systems beyond what is needed to serve project-specific demand, and development of new residential subdivisions or industrial parks in areas that are only sparsely developed or are underdeveloped.

The proposed project is the expansion of a current surface mining operation that produces aggregate materials for the current and near-term needs of the regional and state construction market. Aggregate materials are an inflexible commodity. There is no substitute to aggregate materials and if a construction project requires aggregate materials the project managers will have to obtain the aggregate materials, even if it means shipping it in at higher cost and environmental impact, in order to complete the construction.

While implementation of the proposed project would allow for the continued mining of aggregate materials, the proposed expansion would allow for the project applicant to continue to meet market demand while continuing surface mining operations in a general area already being mined. The proposed project would not constitute an expansion project beyond what is needed to serve regional and state demand. Furthermore, implementation of the proposed project would focus surface mining activities in an area designated for such use and would not necessitate the need to develop a brand new site for mining operations.

In addition, the proposed project does not include development of housing and or the expansion of water, wastewater, or roadway infrastructure, which would remove a

barrier to growth. As demonstrated throughout this SEIR, the proposed project does not create or increase the demand for additional housing or public services. Lastly, the proposed project would not change any policies related to development within the county. Therefore, the proposed project would not result in growth inducing impacts.

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20 ACRONYMS

°C	degrees Celsius
°F	degrees Fahrenheit
2016 Final EIR	Aspen VIII & IX Mining Use Permit Project Final Environmental Impact Report
2022 IRP	2022 Integrated Resource Plan
2022 Scoping Plan	Final 2022 Scoping Plan for Achieving Carbon Neutrality
2023 Plan	*2023 Sacramento Regional Plan for the 2015 70-ppb 8-Hour Ozone Standard*
2023 WHA	the West Jackson Highway Master Plan Project
2024 CAP	Final Climate Action Plan
2024 WHA	*Aspen VIII & IX Mining Use Permit Amendment Wildlife Hazard Analysis*
AB	Assembly Bill
ADT	average daily traffic
ALUC	Airport Land Use Commission
ALUCP	Airport Land Use Compatibility Plan
AMM	avoidance and minimization measures
AMSL	above mean sea level
APN	assessor's parcel number
approved project	Aspen VIII & IX Mining Use Permit Project
APZ	accident potential zone
ARA	aggregate resource area
ATCM	airborne toxic control measure
BAC	Bollard Acoustical Consultants
BACT	best available control technology
BMP	best management practice
BRA	Biological Resources Assessment
CAA	Clean Air Act
CAAQS	California ambient air quality standards
CAL FIRE	California Department of Forestry and Fire Protection
Cal/EPA	California Environmental Protection Agency

Cal/OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFC	California Fire Code
CFR	Code of Federal Regulations
CGS	California Geological Survey
CLUP	comprehensive land use plan
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2	carbon dioxide
County	Sacramento County
CRHR	California Register of Historical Resources
CRP	Conservation Research and Planning
CSCGMP	Central Sacramento County Groundwater Management Plan
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
dB	decibel
dBA	A-weighted decibels
DBH	diameter at breast height
diesel PM	diesel particulate matter exhaust from diesel engines
DOC	California Department of Conservation
DOT	US Department of Transportation

Drainage Memo	*Drainage Summary for the Proposed Aspen VIII and IX Expansion Areas*
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EIR	Environmental Impact Report
Elk Grove USD	Elk Grove Unified School District
EMD	Environmental Management Department
EOP	*Sacramento County Emergency Operations Plan*
EPA	US Environmental Protection Agency
ESA	Endangered Species Act
EV	electric vehicle
Evacuation Annex	Sacramento County Operational Area Evacuation Functional Annex
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
FEMA	Federal Emergency Management Agency
FHSZ	fire hazard severity zone
FHWA	US Department of Transportation, Federal Highway Administration
FIRM	Federal Insurance Rate Maps
FMMP	Farmland Mapping and Monitoring Program
FTA	Federal Transit Administration
Geocon	Geocon Consultants, Inc.
GHG	greenhouse gas
GSA	groundwater sustainability agency
GSP	groundwater sustainability plan
HAP	hazardous air pollutant
Hot Spots Act	Air Toxics Hot Spots Information and Assessment Act of 1987
Hz	hertz
I	Interstate
IEPR	Integrated Energy Policy Report
in/sec	inches/second

Industrial General Permit	General Permit for Stormwater Discharges Associated with Industrial Activities
ITE	Institute of Transportation Engineers
ITP	Incidental Take Permit
kWh	kilowatt hours
lb/day	pounds per day
LCFS	Low Carbon Fuel Standard
L_{dn}	day-night level
L_{max}	maximum sound level
LOS	level of service
LRA	local responsibility area
LRT	light rail transit
Mather AFB	Mather Air Force Base
MBTA	Migratory Bird Treaty Act
Metro Fire	Sacramento Metropolitan Fire District
MLD	Most Likely Descendant
MMRP	mitigation monitoring and reporting program
mPa	micro-Pascals
mph	miles per hour
MRZ	Mineral Resource Zone
$MTCO_2e$	metric tons of carbon dioxide equivalent
MTIP	Metropolitan Transportation Improvement Program
MTP/SCS	Metropolitan Transportation Plan/Sustainable Communities Strategy
NAAQS	national ambient air quality standards
NAHC	Native American Heritage Commission
NCCP	natural community conservation plan
NDGSA	North Delta GSA
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NO_2	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOP	Notice of Preparation

NO_x	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NPPA	California Native Plant Protection Act
NRHP	National Register of Historic Places
NSWD	non-storm water discharges
OAL	Office of Administrative Law
OES	California Office of Emergency Services
OHWD	Omochumne-Hartnell Water District
OPR	Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Administration
	parts per million by weight [ppmw
PCC	Portland Cement Concrete
PG&E	Pacific Gas and Electric Company
PM	Particulate matter
PM_{10}	respirable particulate matter
$PM_{2.5}$	fine particulate matter
Porter-Cologne Act	Porter-Cologne Water Quality Control Act of 1970
PPU	Preserve Planning Unit
PPV	peak particle velocity
PRC	Public Resources Code
Preserve	Elder Creek Open Space Preserve
Program	State of California Cap-and-Trade Program
project site	Aspen VIII and IX Expansion Areas
project	Aspen VIII & IX Mining Use Permit Amendment Project
proposed project	Aspen VIII & IX Mining Use Permit Amendment Project
PUC	Public Utilities Code
RCRA	Resource Conservation and Recovery Act
RD 551	Reclamation District 551
RFS	Renewable Fuel Standard
RMS	root-mean-square
ROG	reactive organic gases

RWQCB	regional water quality control board
SacDOT	Sacramento County Department of Transportation
SacOES	Sacramento County Office of Emergency Services
SACOG	Sacramento Area Council of Government
SacRT	Sacramento Regional Transit District
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SCGA	Sacramento Central Groundwater Agency
SEIR	Supplemental Environmental Impact Report
SEPA	Southeast Policy Area
SFNA	Sacramento Federal Nonattainment Area
SGMA	Sustainable Groundwater Management Act
SHPO	State Historic Preservation Officer
SIP	state implementation plan
SLF	Sacred Land File
SM	surface mining
SMAQMD	Sacramento Metropolitan Air Quality Management District
SMARA	Surface Mining and Reclamation Act
SMUD	Sacramento Municipal Utility District
SO_2	sulfur dioxide
Southgate or SRPD	Southgate Recreation and Park District
SPL	sound pressure level
SPLS	Sacramento Public Library System
SR 16	Jackson Road
SR	State Route
SRCD	Sloughhouse Resource Conservation District
SSD	Sacramento County Sheriff’s Department
SSHCP	South Sacramento Habitat Conservation Plan
SVAB	Sacramento Valley Air Basin
SVP	Society of Vertebrate Paleontology
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board

TAC	toxic air contaminant
TAG	Transportation Analysis Guidelines
TDS	total dissolved soils
Technical Advisory	Technical Advisory on Evaluating Transportation Impacts in CEQA
Teichert	Teichert Materials
TISG	Transportation Impact Study Guide
TMDL	total maximum daily load
tpy	tons per year
UDA	urban development area
UPA	Urban Policy Area
US	United States Highway
USACE	US Army Corps of Engineers
USB	Urban Service Boundary
USFWS	US Fish and Wildlife Service
USGS	US Geological Survey
VdB	vibration decibel
VMT	vehicle miles traveled
WJHMP	West Jackson Highway Master Plan
WQO	Water Quality Objectives

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CHAPTER 18 TRIBAL CULTURAL RESOURCES

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CHAPTER 19 SUMMARY OF IMPACTS AND THEIR DISPOSITION

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22 ACKNOWLEDGEMENTS

EIR Preparers

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Applicant

Teichert Materials

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APPENDIX A

NOTICE OF PREPARATION AND SCOPING COMMENTS RECEIVED

Todd Smith, Planning Director
Planning and Environmental Review

Troy Givans, Director
Department of Community Development

County of Sacramento

COUNTY OF SACRAMENTO
PLANNING AND ENVIRONMENTAL REVIEW
NOTICE OF PREPARATION

August 26, 2024

To: All Interested Parties

Subject: Notice of Preparation of a Draft Supplemental Environmental Impact Report for Sacramento County Teichert Aspen VIII & IX Use Permit Amendment Project (PLNP2024-00068)

Sacramento County will be the CEQA Lead Agency for preparation of a Supplemental Environmental Impact Report (SEIR) to the Aspen VIII and IX Final EIR (State Clearinghouse No. 2015022062) for the Teichert Aspen VIII & IX Use Permit Amendment Project (PLNP2014-00201) (project). This Notice of Preparation has been sent to responsible and trustee agencies and involved federal agencies pursuant to Section 15082 of the CEQA Guidelines. Agencies should comment on the scope and content of the environmental information that is germane to the agencies' statutory responsibilities in connection with the proposed project. Due to the time limits mandated by State law, your response must be sent at the earliest possible date, but not later than 30 days after receipt of this notice.

The project description, location, and the probable environmental effects are contained in the attached materials and may also be viewed online at:

https://planningdocuments.saccounty.net/ViewProjectDetails.aspx?ControlNum=PLNP2024-00068

Please send your Agency's response to this Notice to:

Kurtis Steinert, Associate Planner
Planning and Environmental Review
827 7th Street, Room 225, Sacramento, CA 95814

or via e-mail at: CEQA@saccounty.gov.

Your response should include the name of a contact person in your agency.

Agencies with specific questions about the project should contact Kurtis Steinert, Project Manager, at steinertk@saccounty.gov for further information.

COMMENT PERIOD

August 26, 2024 to September 25, 2024

SCOPING MEETINGS:

One scoping meeting has been scheduled for the proposed project. Interested parties and agency representatives are invited to learn more about the proposed project and submit comments and suggestions concerning the analysis in the EIR.

The scoping meeting will be conducted virtually via Zoom. The date, time, and login information for the meeting is as follows:

September 17, 2024, 2:00 PM Pacific Time (US and Canada)
Location:https://saccounty-net.zoomgov.com/j/1615425458?pwd=jgfHfO2BFIni2LrdS4yk4QypjLSaSG.1
Meeting ID: 161 542 5458
Passcode: 865471

PROJECT TITLE:

Sacramento County Teichert Aspen VIII & IX Use Permit Amendment Project

CONTROL NUMBER:

PLNP2024-00068

PROJECT PROPONENT(S):

Owner: Triangle Properties, Inc.

Applicant: Teichert Materials

Engineer: Cunningham Engineering

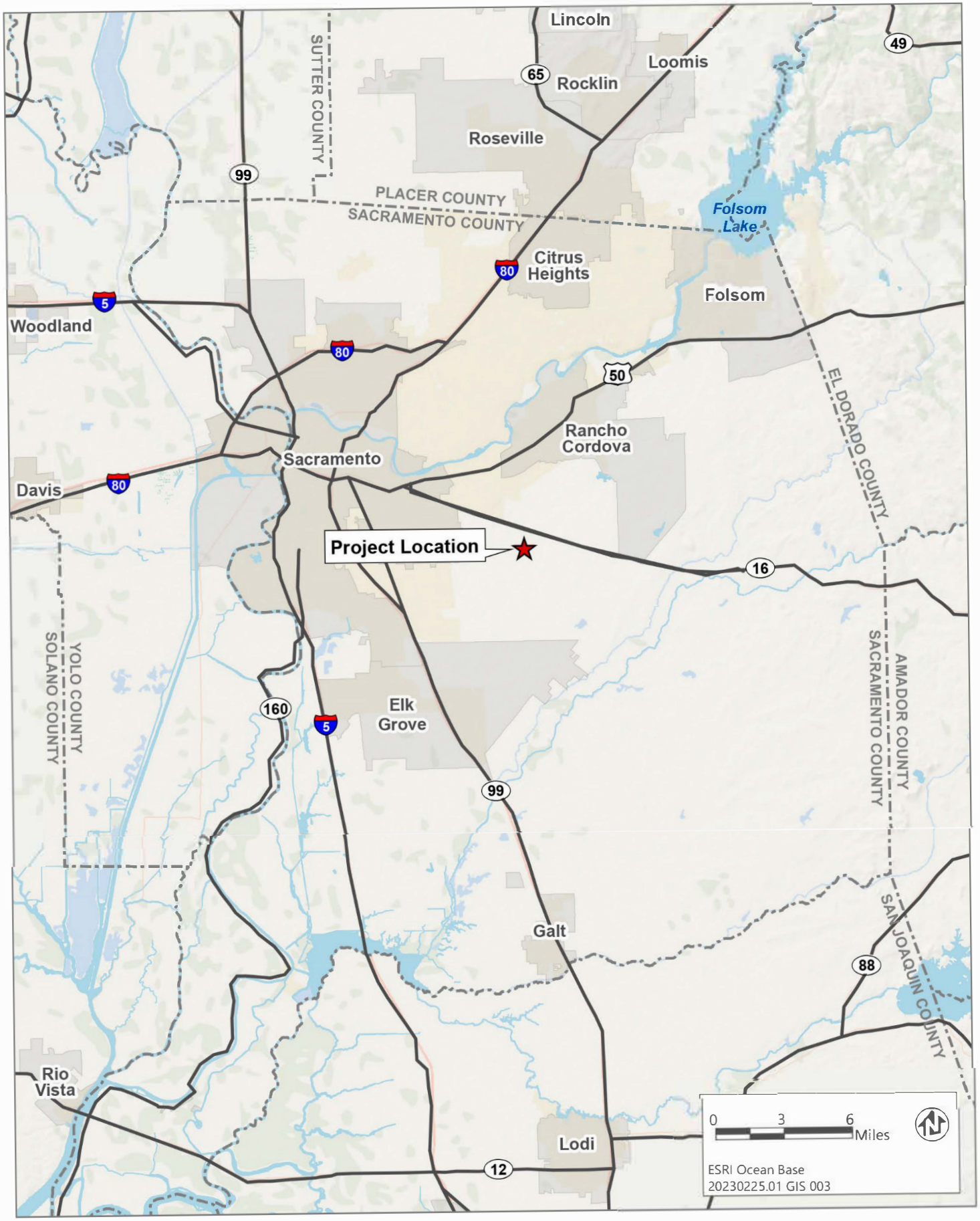
PROJECT LOCATION:

The project site is located within Sacramento County, east of the City of Sacramento limits, south of Jackson Road (State Route 16), and approximately one-half mile east of Bradshaw Road (**Plate NOP-1**)**.** Elder Creek Road divides the project site, with Aspen VIII being located north of Elder Creek Road and its proposed expansion area extending the mining operation north up to the boundary of the previously mined Aspen V South site (**Plate NOP-2**). Aspen IX is located south of Elder Creek Road with mining currently occurring north of Elder Creek. The expansion of Aspen IX would allow mining of the property south of Elder Creek down to the Vineyard Surface Water Treatment Plant and Knox Road. The project site is in the Vineyard community of unincorporated Sacramento County.

The project is located within Township 8 north, Range 6 east, Sections 27, 28, 33, and 34 of the USGS 7.5-minute series Carmichael, California quadrangles. The latitude and longitude are 38º30’39” North and 121º19’03” West. The assessor’s parcel numbers (APN’s) are as follows:

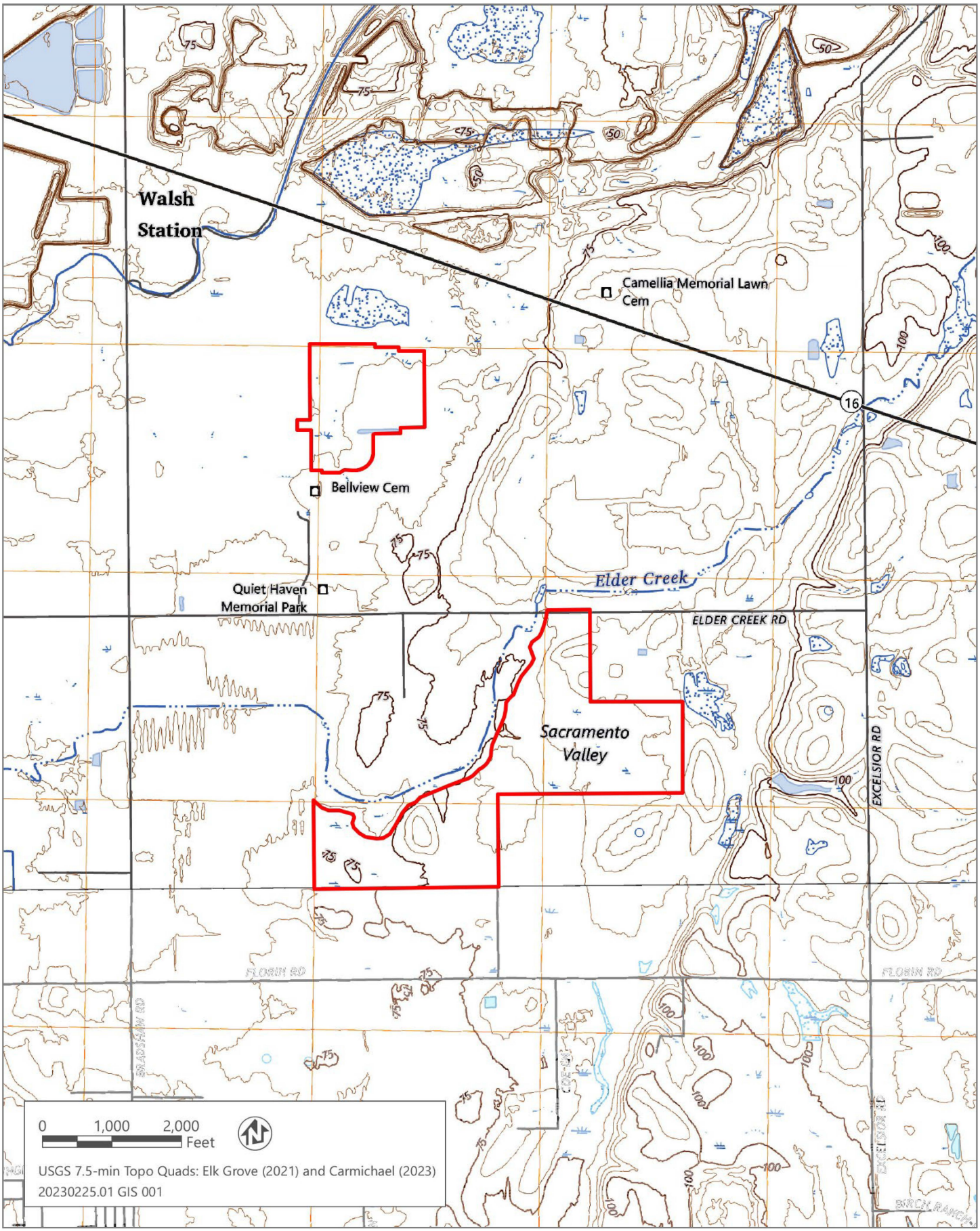
- Aspen VIII: APN’s 063-0180-005, 063-0180-006, 063-0190-014, 063-0190-015, 063-0190-021, 063-0190-028, 063-0190-029, 063-0190-027
- Aspen XI South: APN’s 066-0020-006, 066-0050-003, 066-0030-001
- Conveyor Extension South to Aspen IX South: APN 066-0020-006

PLATE NOP-1: PROJECT LOCATION



Source: Adapted by Ascent in 2024.

PLATE NOP-2: ASPEN VIII AND IX SITES



Source: Adapted by Ascent Environmental in 2023.

ENVIRONMENTAL/LAND USE SETTING:

Elder Creek traverses the southern portion of the project site from a northeasterly to southwesterly direction. Site topography generally slopes gently downward from east to west. Existing habitat includes annual grasslands, scattered wetlands and other waters, including Elder Creek. The majority of the site was historically used as rangeland for livestock. The surrounding land uses include industrial and agricultural use. Teichert's Aspen V South mine site is undergoing reclamation to the north and west of the Aspen VIII expansion area. The Everde Growers' wholesale nursery is located to the west of the Aspen IX expansion area and to the south are agricultural grazing lands, an equipment storage area, and the Vineyard Surface Water Treatment Plant. Knox Road currently abuts and dead ends into the Aspen IX site. Other nearby uses include rural residential homes and cemeteries.

PROJECT DESCRIPTION:

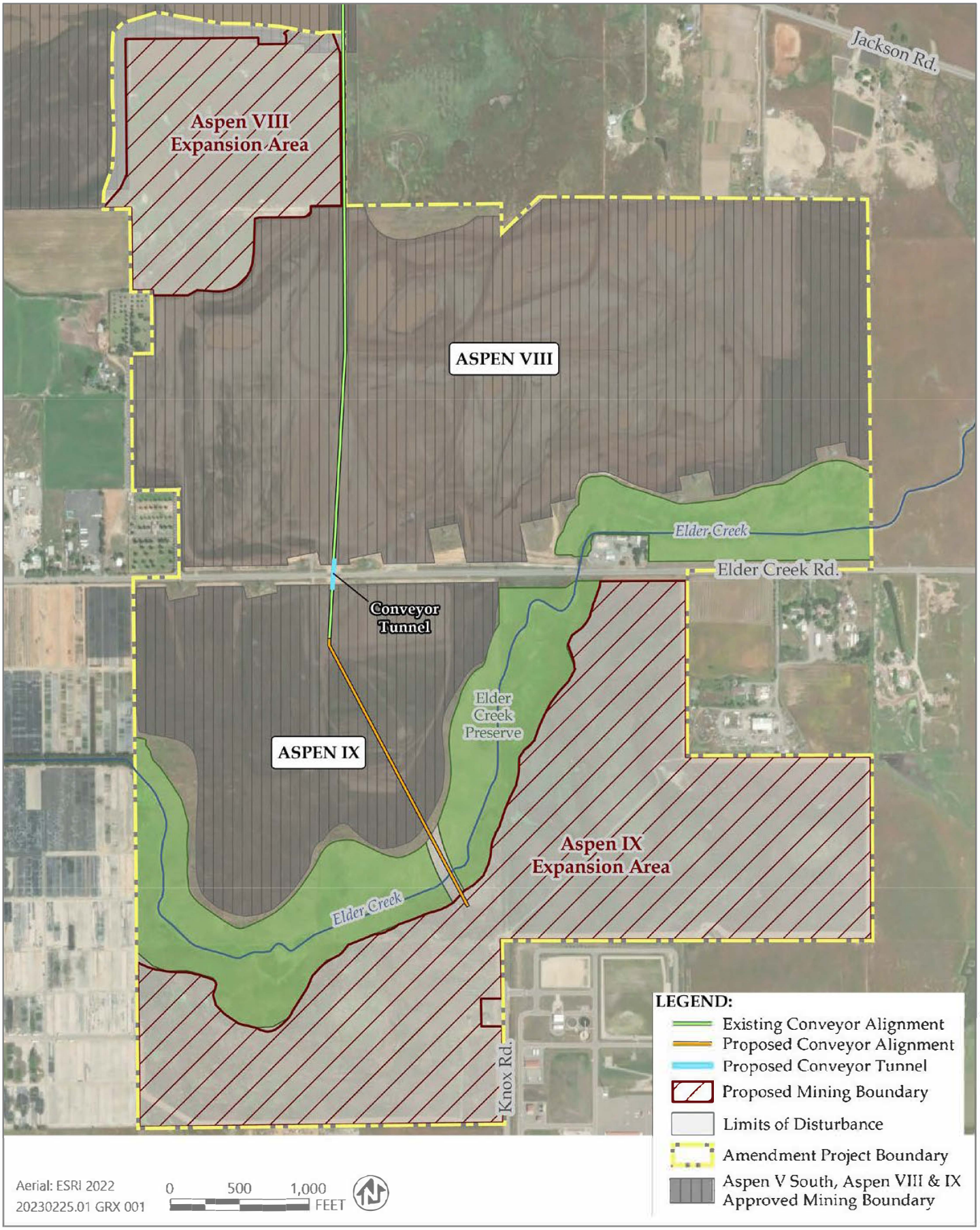
Teichert, as the Applicant, is proposing to amend its existing Mining Use Permit and Reclamation Plan for the Aspen VIII and IX Project (PLNP2014-00201) to expand mining of aggregate material (sand and gravel) to 245.6 acres of unmined areas adjacent to the approved mine site in the northwest corner of Aspen VIII and south of Elder Creek on Aspen IX (project). The project would expand the surface mining operations at Teichert's existing Aspen VIII and IX mining site, which is currently covered by an existing County Mining Use Permit (Control Number PLN2014-00201). The existing Mining Use Permit allows surface mining on approximately 353 acres of a 683-acre project site, with mining to be completed by December 31, 2031, and the site to be reclaimed by December 31, 2033.

The proposed amendment to the existing Mining Use Permit would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (referred to as Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (referred to as Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres. The project would also include the extension of the existing conveyor belt system over Elder Creek to reach the unmined southern areas of the Aspen IX site, which would allow material to continue to be conveyed to the existing Perkins process plant rather than transported by truck (**Plate NOP-3**). Construction equipment would be brought onsite at the beginning of the project and would remain onsite for the duration of the mining operation. Approximately nine employees are expected to work onsite at any given time. Aggregate material would not be sold directly from the project site. The project also includes a new site access point along Knox Road to allow employees to access the Aspen IX Expansion Area.

The expansion of mining to areas adjacent to Aspen VIII and IX would require amendments to the existing Mining Use Permit, Reclamation Plan, and Development Agreements for Aspen VIII and IX. The project would also include amendments to several conditions of approval on the Mining Use Permit that are necessary to incorporate the expanded mine areas. In addition, the project would also amend the term of the existing Mining Use Permit (Condition of Approval #7) to extend mining until December 31, 2046, with reclamation to be complete by December 31, 2048. Approval of the amended Use Permit would extend the duration of current mining operations into the expanded mine area, after which time the project site would be reclaimed to open space grassland in a manner consistent with the current reclamation plan and permits/approvals. Although approval of the amended Use Permit would expand the mining areas (within the overall total acreage allowed under the current permit), it would not result in an increase in the annual rate of aggregate extraction and would therefore not result in increased operational intensity. As such, no additional heavy truck or employee trips would result from the proposed amended Use Permit.

All the included APNs for the project include a Surface Mining Combining Zone (SM) designation, which is a County zoning overlay indicating that these parcels have been determined to be appropriate for surface mining with the grant of a use permit. Due to the existing SM zoning designation, the project does not require any rezoning.

PLATE NOP-3



Source: Adapted by Ascent in 2024.

REQUESTED ENTITLEMENTS:

The following entitlements are requested from Sacramento County:

1. Use Permit Amendment –
    - To expand the mine boundary and allow for a continuation of surface mining onto adjacent lands previously not identified for mining.
    - To amend condition of approval 6 to allow for utilization of the electronic conveyor system on portions of APNs 063-0190-014, 063-0190-015, 063-0190-027, 063-0190-028, 063-0190-029, 066-0050-003, and 066-0030-001.
    - To amend condition of approval 7 to extend the term of the permit to December 31, 2046 with reclamation to be completed within two years of Use Permit expiration.
    - To amend condition of approval 17 regarding embankment and slope design adjacent to Elder Creek in the Aspen IX South expansion area.
2. Reclamation Plan Amendment – to amend the area identified for reclamation, amend the associated text of the plan, and extend anticipated date of completion.
3. Development Agreement Amendment – modifying the agreement term to be applicable to the duration of this amendment. Specially, this would require a modification to section 1.7 of the current Development Agreement.

PROJECT OBJECTIVES:

The primary objectives of the proposed project include:

1. To mine an alluvial sand and gravel deposit, specifically resources that can be used to create Portland Cement Concrete (PCC).
2. To extract available alluvial aggregate resources located near the urban core prior to encroachment by future urban land uses.
3. To continue to supply construction materials to the Sacramento County market utilizing Teichert's existing Perkins processing facility and associated infrastructure.
4. To locate the mining operation in close proximity to Teichert's Perkins processing facility such that mined aggregate can continue to be transported to the facility via an electric conveyor belt system, the use of which minimizes the economic and environmental (i.e., air quality, traffic, noise) impacts associated with hauling material from the mining site to the processing facility.
5. To expand existing mining operations before seeking to permit entirely new sites.
6. To utilize lands for resource extraction that are already zoned to allow surface mining.
7. To mine in an area that would contain a buffer between mining operations and any use potentially incompatible with mining including, but not limited to, residential neighborhoods, schools, or offices.

PROBABLE ENVIRONMENTAL EFFECTS/SEIR FOCUS:

The SEIR will primarily focus on evaluating new and/or potentially altered impacts identified in the Aspen VIII and IX Final EIR. The SEIR will describe direct and indirect environmental impacts associated with the project and will identify feasible mitigation measures to reduce potentially significant impacts in addition to incorporating the adopted mitigation measures from the Aspen VIII and IX Final EIR. The SEIR will focus on significant or potentially significant impacts to the following resources:

Aesthetics

The SEIR will evaluate the project's impact on aesthetics, including those to the surrounding visual landscape and scenic vistas or roadways. To support the SEIR's aesthetics analysis, a landscape plan for Elder Creek Road has been included as part of the proposed project, which includes a plan for revegetation of the project site. In addition, the SEIR will evaluate whether the project would introduce new sources of light or glare that could affect off-site uses. While no mining would be conducted overnight, mining activities could occur till 10 PM, where portable lighting may be used during dark hours. However, the proposed project does not include the installation of any additional lights along Knox Road but could include limited lighting at the new access point to the project site from this roadway. To support the SEIR's evaluation, a landscape plan and a lighting plan will be included as part of the analysis.

Agricultural Resources

The SEIR will evaluate whether implementation of the project would impact agricultural resources through either the conversion of Prime or Unique Farmland or Farland of Statewide Importance to a non-agricultural use or via a change in or conflict with agricultural zoning.

Airport Compatibility

Due to the presence of airports in the vicinity of the project site, the SEIR will evaluate the project's consistency with applicable airport land use compatibility plan requirements, specifically analyzing the potential for bird strike hazards. To support the SEIR's evaluation, a wildlife hazard analysis (bird strike hazards) will be included as part of the analysis.

Air Quality and Greenhouse Gas (GHG) Emissions

While the project would include new construction activities, operational activities would be similar to existing conditions. The SEIR will evaluate the project's potential to impact air quality both during construction and operation. To support the SEIR's evaluation, an Air Quality and Greenhouse Gas Study (AQ/GHG Study) will be prepared for the project. This study will reference the Aspen VIII and Aspen IX Mining Project Air Quality and Greenhouse Gas Study (Ascent 2014) prepared for the Aspen VIII and IX Draft EIR. The AQ/GHG Study will include a brief discussion of applicable federal, state, and local regulations (e.g., US Environmental Protection Agency [EPA], Sacramento Metropolitan Air Quality Management District [SMAQMD], California Resources Board [CARB]), as well as regional and local air quality conditions and the current state of the science as it relates to air quality and climate change. Construction emissions of criteria air pollutants, ozone precursors, and GHG emissions will be quantified and compared to thresholds of significance established by SMAQMD. The AQ/GHG Study will evaluate the project against these applicable laws, regulations, and plans, many of which have been updated since the Aspen VIII and IX Draft EIR was certified. In addition, a Construction Health Risk Assessment will be prepared to evaluate the project's potential to increase health risks to nearby sensitive uses (i.e., residential uses).

Biological Resources

The project site is currently undeveloped, vacant land that is traversed by Elder Creek, where there is the potential for biological resources to be present on-site. The project is located with the Urban Development Area of the South Sacramento Habitat Conservation Plan. According to the base land cover map, the project site contains valley grassland, freshwater marsh, vernal pools, swale, irrigated grassland, disturbed, and Elder Creek. These land cover types could support the following species: Dwarf downingia, Boggs lake hedge hyssop, Sanford's arrowhead, Legenere, Vernal pool tadpole shrimps, Midvalley fairy shrimp, western spadefoot, Western pond turtle, Swainson's hawk, Ferruginous hawk, White-tailed kite, Burrowing Owl, Northern harrier, Loggerhead shrike, Tricolor blackbird, American badger, Pallid Bat, Yuma myotis, Western red bat. The SEIR will evaluate the project's potential to impact biological resources, both on-site and off-site, during construction and

operation. To support the SEIR's evaluation, a biological resources assessment is being prepared to be included as part of the analysis.

Cultural Resources

Because the project site is currently undeveloped, vacant land, there is the potential for ground-disturbing activities to inadvertently encounter unknown, buried cultural resources and/or human remains, which could also be considered as tribal cultural resources. For this reason, the SEIR will evaluate the project's potential to impact cultural resources.

Energy

Implementation of the project, as an expansion of the current mining operations, may increase energy usage at the project site as well as within the overall mining facility, including the extension of the conveyor system. The SEIR will evaluate the project's potential for energy impacts related to the construction and operation of the project.

Geology and Soils

As the project includes ground-disturbing activities during construction and during mining operations, the SEIR will evaluate the project's potential to impact geology and soils, including paleontological resources. Specifically, the SEIR will evaluate the potential for on- and off-site erosion during construction and mining operations as well as with stockpiled materials; unstable soils, particularly as a result of mining activity; seismic geologic hazards, such as ground rupture, liquefaction, and ground-shaking; and the potential to encounter unknown buried paleontological resources. The SEIR will review the applicable federal, state, and local laws and regulations, including those specific to mining operations, to determine the project impacts.

Hazards

Hazardous materials that will be used at the project site could include but are not limited to fuels, motor oil, lubricants, and other chemicals associated with mining operations. During construction and mining operation, construction equipment will be required to be refueled at the project site and as such, routine use of hazardous materials would occur with implementation of the project. For that reason, the SEIR will evaluate the project's potential to result in impacts associated with hazards and hazardous materials.

Hydrology and Water Quality

The project site is currently undeveloped, vacant land that is traversed by Elder Creek, where development of the project would have the potential to impact the water quality of Elder Creek and downstream water bodies through erosion and changes in drainage patterns. Therefore, the SEIR will evaluate the project's potential to impact hydrology and water quality as well as will review the applicable federal, state, and local laws and regulations. To support the SEIR's evaluation, a wetland delineation and a drainage plan will be included as part of the analysis.

Public Services

As the project would develop currently undeveloped, vacant land, the SEIR will evaluate the project's potential to impact public services, particularly fire protection and police services.

Noise

Implementation of the project would generate noise from ground-disturbing activities associated with construction and mining operations. In addition, since the project is an expansion of an existing mining operation, the SEIR will evaluate the project's potential to increase on- and off-site noise levels. To

support the SEIR's evaluation, the Noise Study, prepared by Bollard Acoustical Consultants, Inc. in September 2023, will be included as part of the analysis.

Transportation

Implementation of the project would not increase existing vehicle or truck trips compared to existing conditions. However, the project includes a new site access point from Knox Roadway and Vineyard Road to allow employees to access the Aspen IX Expansion Area, which would redistribute existing vehicle trips from other existing site access points. Due to this new site access point, the SEIR will evaluate the project's potential to affect the local circulation system, which will be based on the Traffic Impact Analysis, prepared by Fehr and Peers for the initial Aspen VIII & IX application.

Tribal Cultural Resources

In accordance with Assembly Bill (AB) 52, Sacramento County, as lead agency under CEQA, will initiate tribal consultation with the tribes affiliated with the project site and region. The results of tribal consultation will be summarized within the SEIR.

INTENDED USES OF THE SEIR:

The Sacramento County Board of Supervisors will use the information contained in the SEIR in evaluating the proposed project and rendering a decision to approve or deny the requested entitlements. The SEIR will serve as an informational document for the general public as well. Responsible agencies may also use the SEIR as needed for subsequent discretionary actions.

Table 1 below summarizes the permits and/or approvals required from the County and each responsible agency for the project.

Table 1: Subsequent Permits, Approvals, Review, and Consultation Requirements

Agency	Approval
Sacramento County Board of Supervisors	Final Supplemental Environmental Impact Report Certification
Sacramento County Board of Supervisors	Use Permit, Special Development Permit and Design Review
Sacramento County Planning Commission	Recommendation to the Board of Supervisors regarding Use Permit, Special Development Permit, and Design Review
South Sacramento Habitat Conservation Plan	SSHCP Permit
Sacramento Municipal Utility District	Various Agreements
County of Sacramento Site Improvement Section	Grading Permit or Improvement Plans
County of Sacramento Department of Transportation	Encroachment Permit
Sacramento County Environmental Management Department	On-site Wastewater Disposal Permit or Well Certification
Sacramento Metropolitan Air Quality Management District	Fugitive Dust Prevention and Control Plan
Regional Water Quality Control Board – Central Valley Region	Section 402 National Pollutant Discharge Elimination System Permit Compliance
Regional Water Quality Control Board – Central Valley Region	Waste Discharge Permit
Regional Water Quality Control Board – Central Valley Region	Section 401 Certification

Agency	Approval
California Department of Fish and Wildlife	Section 1602 Lake and Streambed Alteration Agreement, California Endangered Species Act Take Permit
California Department of Conservation, Division of Mine Reclamation	Approve Revised Reclamation Plan

24 September 2024

Julie Newton
Sacramento County Planning
827 7th Street, Suite 225
Sacramento, CA 95814
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COMMENTS TO REQUEST FOR REVIEW FOR THE NOTICE OF PREPARATION FOR THE DRAFT ENVIRONMENTAL IMPACT REPORT, PLNP2024-00068 SACRAMENTO COUNTY TEICHERT ASPEN VIII AND IX USE PERMIT AMENDMENT PROJECT, SCH#2015022062, SACRAMENTO COUNTY

Pursuant to the State Clearinghouse's 26 August 2024 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Notice of Preparation for the Draft Environmental Impact Report* for the PLNP2024-00068 Sacramento County Teichert Aspen VIII and IX Use Permit Amendment Project, located in Sacramento County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

I. Regulatory Setting

Basin Plan

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards. Water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as

required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by the State Water Resources Control Board (State Water Board), Office of Administrative Law (OAL) and in some cases, the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues. For more information on the *Water Quality Control Plan for the Sacramento and San Joaquin River Basins*, please visit our website: http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/

Antidegradation Considerations

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Implementation Policy is available on page 74 at: https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsjr_201805.pdf

In part it states:

Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.

This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

II. Permitting Requirements

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit), Construction General Permit Order No. 2009-0009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit

requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). For more information on the Construction General Permit, visit the State Water Resources Control Board website at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACE). If a Section 404 permit is required by the USACE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements. If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACE at (916) 557-5250.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from the United States Coast Guard), is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications. For more information on the Water Quality Certification, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/water_issues/water_quality_certification/

Waste Discharge Requirements – Discharges to Waters of the State

If USACE determines that only non-jurisdictional waters of the State (i.e., “non-federal” waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation. For more information on the Waste Discharges to Surface Water NPDES Program and WDR processes, visit the Central Valley Water Board website at:https://www.waterboards.ca.gov/centralvalley/water_issues/waste_to_surface_water/

Projects involving excavation or fill activities impacting less than 0.2 acre or 400 linear feet of non-jurisdictional waters of the state and projects involving dredging activities impacting less than 50 cubic yards of non-jurisdictional waters of the state

may be eligible for coverage under the State Water Resources Control Board Water Quality Order No. 2004-0004-DWQ (General Order 2004-0004). For more information on the General Order 2004-0004, visit the State Water Resources Control Board website at: https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2004/wqo/wqo2004-0004.pdf

Dewatering Permit

If the proposed project includes construction or groundwater dewatering to be discharged to land, the proponent may apply for coverage under State Water Board General Water Quality Order (Low Threat General Order) 2003-0003 or the Central Valley Water Board's Waiver of Report of Waste Discharge and Waste Discharge Requirements (Low Threat Waiver) R5-2018-0085. Small temporary construction dewatering projects are projects that discharge groundwater to land from excavation activities or dewatering of underground utility vaults. Dischargers seeking coverage under the General Order or Waiver must file a Notice of Intent with the Central Valley Water Board prior to beginning discharge.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0003.pdf

For more information regarding the Low Threat Waiver and the application process, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2018-0085.pdf

Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Limited Threat Discharges to Surface Water* (Limited Threat General Order). A complete Notice of Intent must be submitted to the Central Valley Water Board to obtain coverage under the Limited Threat General Order. For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2016-0076-01.pdf

NPDES Permit

If the proposed project discharges waste that could affect the quality of surface waters of the State, other than into a community sewer system, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. A complete Report of Waste Discharge must be submitted with the

Central Valley Water Board to obtain a NPDES Permit. For more information regarding the NPDES Permit and the application process, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/help/permit/

If you have questions regarding these comments, please contact me at (916) 464-4684 or Peter.Minkel2@waterboards.ca.gov.

Peter G. Minkel
Engineering Geologist

cc: State Clearinghouse unit, Governor's Office of Planning and Research, Sacramento

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August 29, 2024

Julie Newton
Sacramento County
827 7th Street
Rm. 225
Sacramento CA 95614

RECEIVED
SEP 03 2024
County of Sacramento
Department of Community Development
Planning and Environmental Review Division

Re: 2015022062 Teichert Aspen VIII & IX Use Permit Amendment Project, Sacramento County

Dear Ms. Newton:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

a. A brief description of the project.

b. The lead agency contact information.

c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).

d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

a. Alternatives to the project.

b. Recommended mitigation measures.

c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

a. Type of environmental review necessary.

b. Significance of the tribal cultural resources.

c. Significance of the project's impacts on tribal cultural resources.

d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

a. Whether the proposed project has a significant impact on an identified tribal cultural resource.

b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.

b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:

a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.

b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.

c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@NAHC.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

cc: State Clearinghouse

City of SACRAMENTO
Community Development

October 18, 2024

Letter submitted via e-mail at: CEQA@saccounty.gov.

Kurtis Steinert, Associate Planner
Sacramento County
Department of Community Development, Planning and Environmental Review Division
Attention: Environmental Coordinator
827 7th Street, Room 225
Sacramento, CA 95814

Subject: COMMENTS ON THE NOP FOR THE SACRAMENTO COUNTY TEICHERT ASPEN VIII & IX USE PERMIT AMENDMENT PROJECT (PLNP2024-00068).

Dear Mr. Steinert,

The City of Sacramento has reviewed the Notice of Preparation (NOP) for the Sacramento County Teichert Aspen VIII & IX Use Permit Amendment Project (PLNP2024-00068). We appreciate the opportunity to provide comments on the scope and content of the Supplemental Environmental Impact Report (SEIR) for this project.

We recently became aware of the proposed project and did not receive any public notification of the availability of the NOP from the County. As such, we recognize that our comment letter is late but request that the County consider our comments as part of the NOP scoping process for the preparation of the SEIR.

The City's comments below are preliminary in nature and respond specifically to the information presented and scope of analysis proposed in the NOP.

Proposed Mining Operations Expansion & WJHMP

The proposed amendment to expand mining operations and extend the mining timeline raises significant concerns regarding its potential impact on the West Jackson Highway Master Plan (WJHMP), which is currently under environmental review. The NOP indicates that mining operations would be extended until December 31, 2046, with reclamation to be completed by December 31, 2048. This timeline conflicts with the

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Sacramento, CA 95811

Help Line: 916-264-5011
CityofSacramento.org/cdd

WJHMP's assumed development timeline of 2025-2055, particularly for the Aspen IX area. Furthermore, the expansion of the mining area by 245.6 acres, particularly in the Aspen IX area, may overlap with areas considered for future development in the WJHMP.

Given these concerns, we request that the SEIR thoroughly address the following:

- The SEIR should analyze how the extended mining operations and subsequent reclamation will impact the implementation timeline of the WJHMP, particularly in the Aspen IX region. This analysis should include a reassessment of mineral resource extraction and reclamation timelines in light of the proposed mining expansion.

- The document should evaluate the cumulative impacts of both the mining expansion and the WJHMP, considering their overlapping timelines and geographic areas. This should include an assessment of how the extended mining operations might affect the proposed land uses in the WJHMP, including residential, open space, and infrastructure improvements.

- The SEIR should address compliance with the Surface Mining and Reclamation Act (SMARA), specifically how the reclamation process will align with the WJHMP's development plans. It should explain how the transition from mining operations to the proposed development will be managed.

- An assessment of potential conflicts between the mining operations and proposed nearby uses in the WJHMP should be included, covering aspects such as noise, air quality, visual impacts, and any other relevant environmental factors.

Intended Uses of the SEIR

The NOP describes intended uses of the SEIR including Responsible agencies that may use the SEIR for subsequent discretionary actions. The NOP includes Table 1 which summarizes the permits and/or approvals required from the County and each Responsible Agency. The table does not include U.S. Army Corps of Engineers (ACOE) nor U.S. Fish and Wildlife Service (USFWS). Has the County concluded that the area proposed for expansion does not have biological resources that would necessitate permits and/or consultations with these federal agencies? The description for biological resources

presented in the NOP seems to suggest that the site does contain vernal pools, marsh and other significant biological habitats and species. The SEIR should include an analysis of the project site biological resources including what applicable permits and any mitigation that would be required for the project to be implemented. Additionally, the NOP indicates that no mining would be conducted overnight, but mining activities could occur till 10 PM, where portable lighting may be used during dark hours. The biological analysis should address potential lighting and glare impacts to wildlife species and include appropriate mitigation if applicable.

East Study Area

The proposed project is located within the City's designated East Study Area (exhibit attached). Although, the project site is located outside of the City's existing Sphere of Influence (SOI) which includes a significant portion of the East Study Area, the property is located within the City of Sacramento's American River Place of Use (POU) which includes appropriative water rights to the American River that extends beyond the City's boundary. It's not clear from the NOP if the SEIR will include an analysis of water supply and projected water use since the NOP only specifies that hydrology and water quality will be evaluated.

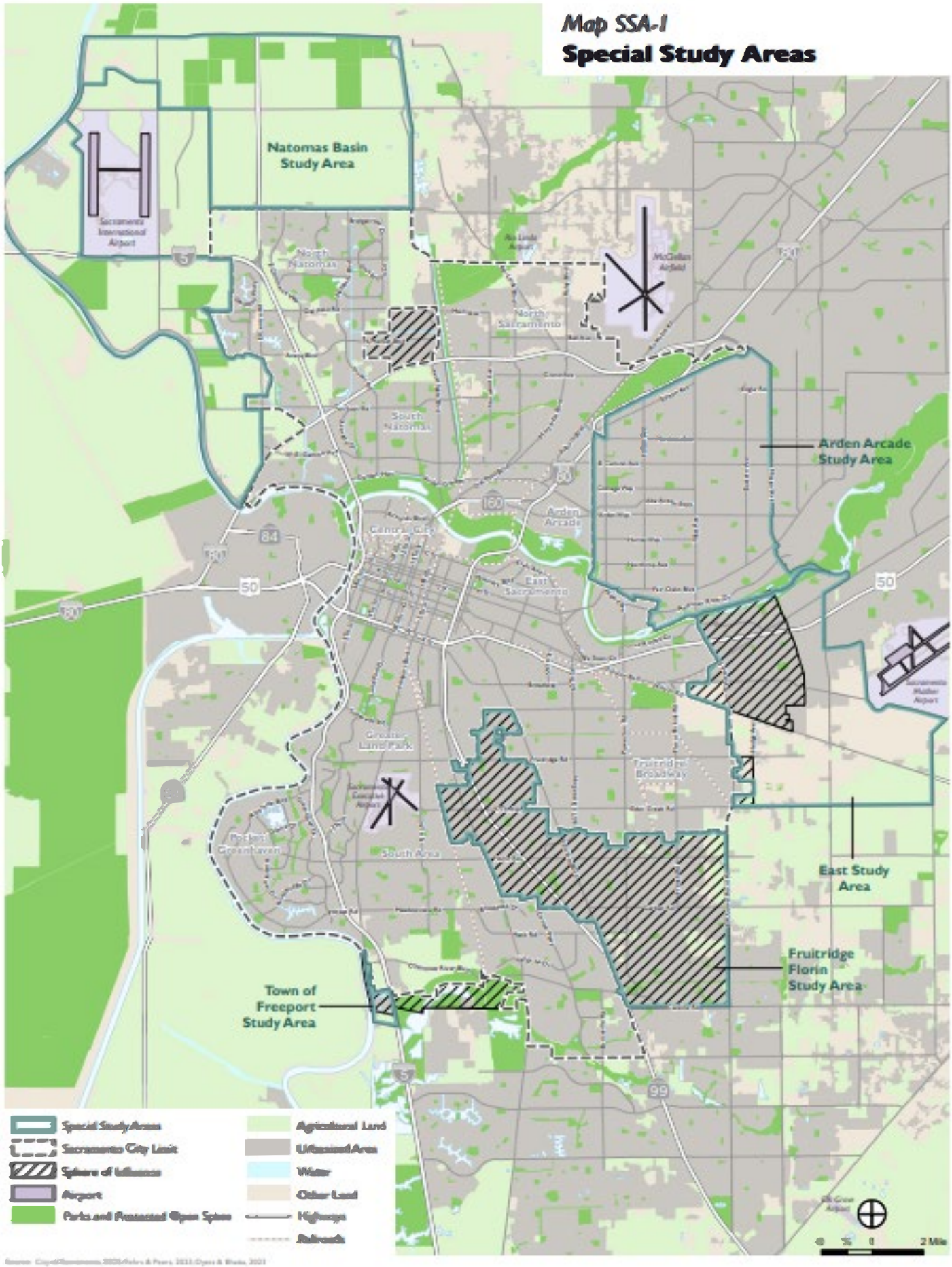
As this project progresses through planning, environmental review, and engineering, we request the County's continued coordination and that we receive all project public notifications including those for any future public meetings and hearings. If you have follow-up questions or seek clarifications on any of the above issues, please contact Cheryle Hodge at chodge@cityofsacramento.org or 808-5971.

Sincerely,

Cheryle L. Hodge

Cheryle Hodge
New Growth Manager, Community Development Department

cc: Greg Sandlund, Planning Director, Community Development Dept.
Tom Bufford, Principal Planner, Environmental Planning Services
Scott Johnson, Senior Planner, Environmental Planning Services


Map SSA-1
Special Study Areas
Natomas Basin Study Area
Arden Arcade Study Area
East Study Area
Fruitridge Florin Study Area
Town of Freeport Study Area
Special Study Areas
Sacramento City Limit
Sphere of Influence
Airport
Parks and Protected Open Space
Agricultural Land
Urbanized Area
Water
Other Land
Highways
Railroads
2 Mile

October 4, 2024

Kurtis Steinert, Associate Planner
County of Sacramento
Planning & Community Development Department.
827 – 7th Street, Rm. 225
Sacramento, CA 95814

RE: Draft Supplemental Environmental Impact Report (DEIR) for Sacramento County Teichert Aspen VIII & IX Use Permit Amendment Project (Control No. PLNP2024-00068)

Dear Kurtis Steinert;

Thank you for the opportunity to comment on the scope of the DEIR for the Aspen VIII and IX Use Permit Amendment. The Project is located south of Jackson Road (State Route 16), and approximately one-half mile east of Bradshaw Road. Elder Creek Road divides the project site, with Aspen VIII being located north of Elder Creek Road and its proposed expansion area extending the mining operation north up to the boundary of the previously mined Aspen V South site. Aspen IX is located south of Elder Creek Road with mining currently occurring north of Elder Creek. The expansion of Aspen IX would allow mining of the property south of Elder Creek down to the Vineyard Surface Water Treatment Plant and Knox Road.

Southgate Recreation and Park District (District) requests that the following comments, which were approved by the Southgate Board of Directors at their October 3, 2024, meeting, be considered during the environmental review of the proposed project and development of the project conditions of approval. Our comments are as follows:

The District is supportive of mitigation measures ensuring development of a multi-use trail system along the future Vineyard Road expansion and the Elder Creek corridor. The District requests that the project exhibits and plans be revised to include and label the future trail corridor approximate locations.

Elder Creek Corridor

The District's master plan, the Sacramento County Bicycle Master Plan, and the SACOG Regional Bicycle, Pedestrian, and Trails Master Plan, all depict a trail alignment adjacent to Elder Creek. The District requests that an analysis demonstrate how the proposed project conforms to Sacramento County General Plan policies CO-114, CO-115, OS-11, OS-12, PF-120 through PF-122, CI-1 through CI-6, CI-13, CI-32 through CI-38, and their associated implementation measures.

The existing weir shown on Aspen IX Improvement Plan Sheets C04 appears to be a new feature not on the approved project documents or on exhibits to the District

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MOU with the applicant. The proposed trail must cross at or near this location to continue westward. Please clarify if it is a temporary weir or how the final reclamation of the site will not preclude development of the trail and that the trail on the weir will meet ADA accessibility standards.

Conditions of Approval

The Project description lists conditions of approval that must be modified to accommodate the proposed project amendment. The list should be amended to include condition of approval number 11 regarding the multi-use interconnected trail system. The proposed new draft condition is provided below. The referenced Plate numbers shall be updated:

11. PS-1: Multi-Use Interconnected Trail System Easement Mitigation Measure

A. Prior to issuance of the Work Authorization Permit, the applicant shall amend the memorandum of understanding with Southgate Recreation and Park District dated May 9, 2017, that codifies that the applicant intends to fully comply with mitigation measure B and C below to the satisfaction of Sacramento County Department of Community Development.

B. Prior to sign-off of the reclamation plan, the applicant shall dedicate a 20-foot wide easement for the multi-use trail along Elder Creek as indicated on Plate PS-3 and to the satisfaction of Southgate Recreation and Park District.

C. Prior to signoff of the reclamation plan the applicant shall improve the trail easement area by constructing a trail surface 20-feet-wide, which will include a 12-foot wide section of suitably compacted base rock foundation for the multiuse trail that will meet accessibility standards along Elder Creek, to the satisfaction of Southgate Recreation and Park District; it is anticipated that the trail easement should be consistent with Plate PS-4, Plate PS-5, Plate PS-6, and Plate PS-7.

Advisory Comments

Please show and label the future Elder Creek and Vineyard Road trails on the Improvement Plan sheets C05 and CO6, and C09 and C10 cross sections 9B, 9C, 9E, and 9F.

Thank you for your assistance. Should you have further questions please do not hesitate to contact me at 916-428-1171, ext. 21 or by email at vking@southgaterecandpark.net.

Sincerely,

Vincent King
Planning Manager

cc: Mark Michelini, Sacramento County
Nick Cronenwett, Teichert Materials

APPENDIX B

B-1 AIR QUALITY, HEATH RISK, AND GREENHOUSE GAS ASSESSMENT

B-2 ENERGY CALCULATIONS WORKSHEETS

APPENDIX B-1

AIR QUALITY, HEATH RISK, AND GREENHOUSE GAS ASSESSMENT

Memo

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Date: January 31, 2025

To: Kurtis Steinert, AICP, Associate Planner
Sacramento County, Planning and Environmental Review Department

From: Matthew McFalls, Senior Air Quality and GHG Specialist, Ascent
Marlie Long, Project Manager, Ascent
Pat Angell, Principal-In-Charge, Ascent

Subject: Air Quality, Heath Risk, and Greenhouse Gas Assessment for the Aspen Quarry VIII and IX Use Permit Amendment Project, Sacramento County

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1 INTRODUCTION

Teichert Materials (Teichert), as the applicant, is proposing to amend its existing Mining Use Permit and Reclamation Plan for the Aspen VIII and IX Project (PLNP2014-00201) to expand mining of aggregate material (sand and gravel) to 245.64 acres of unmined areas adjacent to the approved Aspen VIII and IX mining areas located in unincorporated Sacramento County along Elder Creek Road (Project). The current entitlement for the existing mine allows for surface mining on approximately 353 acres of a 682-acre site, with mining to be completed by December 31, 2031, and the site to be reclaimed by December 31, 2033. The Aspen VIII and IX Final Environmental Impact Report (EIR) (State Clearinghouse No. 2015022062) for the Teichert Aspen VIII and IX Mining Use Permit Project (PLNP2014-00201) was certified in 2016 by the Sacramento County Board of Supervisors. The Aspen VIII and IX Final EIR evaluated the approval and implementation of the Aspen VIII and IX Mining Use Permit, Community Plan Amendment and Rezone, Reclamation Plan, and Development Agreement to permit the Aspen VIII and IX mining areas.

The proposed amendment to the existing Mining Use Permit would expand the existing mining footprint to the both north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.64 acres. In addition to expanding the surface mining footprint, the Project would also include the extension of the existing conveyor belt over Elder Creek to the unmined southern areas of the Aspen IX site, which would allow for material to continue to be conveyed to the existing Perkins Materials Processing Plant (Perkins Plant) off-site rather than transported by truck. The Project also includes a new site access point along Knox Road to allow employees to access the Aspen IX Expansion Area.

The Project would also require amendments to several conditions of approval on the Mining Use Permit and Development Agreements for Aspen VIII and IX that are necessary to incorporate the expanded mine areas. In addition, the Project would also amend the term of the existing Mining Use Permit (Condition of Approval #7) to extend mining until December 31, 2045, with reclamation to be complete by December 31, 2047, which would extend the current mining and reclamation timeframe by roughly 14 years from the expiration of the existing Mining Use Permit. Under the amended Mining Use Permit, surface mining operations would occur for 20 years in the Aspen VIII

and IX Expansion Area, extending from 2026 to 2045, with final reclamation occurring over 2 years ending in 2047.[1] The Project site would be reclaimed to open space grassland in a manner consistent with the amended Reclamation Plan and applicable permits/approvals.

Given the level of changes, and the fact that the expansion areas would occur in proximity to existing residential uses, a quantitative air quality and greenhouse gas (GHG) study was performed to evaluate the potential air quality and GHG impacts of the Project. In addition, this report includes a health risk assessment (HRA), which evaluates the potential cancer and noncancerous health effects associated with activity in the expansion areas on nearby residences.

This report includes a quantitative analysis of air quality impacts associated with the Project, consistent with guidance and methodology published by the Sacramento Metropolitan Air Quality Management District (SMAQMD). The analysis is consistent with applicable California Environmental Quality Act (CEQA) Guidelines Appendix G checklist questions pertaining to air quality and GHG, as well as current State law. This report includes a brief project description, a discussion of applicable regulatory and existing environment, an explanation of the methods of analysis, a list of the thresholds of significance, and an impact analysis discussion.

2 PROJECT DESCRIPTION

The Project would expand existing surface mining operations at Teichert's Aspen VIII and IX mining areas. The proposed amendment to the existing Mining Use Permit and Reclamation Plan would expand the existing mining footprint both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (referred to as Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (referred to as Aspen IX Expansion Area), thereby expanding the total mine area by 245.64 acres. The Project would also include the extension of the existing conveyor belt system over Elder Creek to the unmined southern areas of the Aspen IX site, which would allow material to continue to be conveyed to the existing Perkins Plant rather than transported by truck. The Project also includes a new site access point along Knox Road to allow employees to access the Aspen IX Expansion Area.

Approval of the amended Mining Use Permit would permit surface mining and reclamation activities for an additional 14 years beyond the expiration of the existing permit, which ends in 2031, and would expand the surface mining footprint within the overall total acreage allowed under the existing permit. However, the amended Mining Use Permit would not result in an increase in the annual rate of aggregate extraction and, therefore, would not result in increased operational intensity. For this reason, no additional heavy truck or worker commute trips would result from implementation of the proposed Project.

Under the amended Mining Use Permit, surface mining operations would occur for 20 years, extending from 2026 to 2045, with final reclamation of the Project site to be completed over 2 years ending in 2047. Surface mining is proposed to occur over two phases and would require approximately nine full-time employees at any given time. Phase 1 of surface mining is proposed to begin at the Aspen VIII Expansion Area and progress in a southerly direction toward the existing Aspen VIII mining area. During Phase 1, a conveyor bridge would be constructed to extend over Elder Creek to the south to allow access to and surface mining in the Aspen IX Expansion Area. Phase 2 would consist of surface mining operations within the Aspen IX Expansion Area. The Project site would be reclaimed to open space grassland in a manner consistent with the amended Reclamation Plan and applicable permits/approvals.

[1] While the amended Mining Use Permit would extend the permitted surface mining and reclamation timeframes by 14 years from expiration of the existing Mining Use Permit, surface mining operations permitted under the amended Mining Use Permit would occur for 20 years, which accounts for the five years (2026-2031) still covered by the existing Mining Use Permit.

The Project site contains approximately 8–13 million tons of additional aggregate material and approximately 2.9 million cubic yards of overburden. The Aspen VIII and IX Expansion Areas are approximately 245.64 acres and would be mined to an approximate maximum depth of 60 feet below grade surface (bgs), with typical mining depths ranging from 30 to 50 feet bgs. Consistent with the existing operation on-site, production rates of the surface mining operation would vary as a function of market demand, with an estimated maximum production rate of approximately 1–3 million tons per year and a total of up to 13 million tons to be mined over the life of the Project.

Surface mining operations would commence with the removal of several feet of topsoil followed by the removal of 4–20 feet of clay and sand overburden, which overlays the aggregate deposits. Once the topsoil and overburden are removed to expose the aggregate deposit, extraction of the aggregate resource, typically ranging in thickness from 15 to 35 feet, would begin with the use of various heavy construction equipment. Specifically, the surface mining process includes removal of overburden, stockpiling overburden for reclamation, and surface mining within smaller subareas within the Aspen VIII and IX Expansion Areas. As surface mining progresses in one subarea, removal of topsoil would begin in the next subarea. Once surface mining is complete in one subarea, overburden would be added back into that subarea as reclamation activities begin. The process would continue in this manner for the life of the surface mining phase of the Project (i.e., over the proposed 20-year period from 2026-2045). Heavy construction equipment used for the Project would typically consist of a combination of backhoes, front loaders, bulldozers, scrapers, and blade/motor-grinders, which would be brought on-site at the beginning of the Project and would remain on-site for the duration of the surface mining operation.

Extracted aggregate material from the Project site would be transported via the existing and extended conveyor belt system to the existing Perkins Plant, approximately 4 miles to the northwest. The proposed extended conveyor belt system would exit near the northwestern corner of Aspen VIII, where it would extend into the neighboring Aspen V-South Property to the north, before eventually tying into an existing conveyor system on a permitted mining area on Aspen V-South. Once surface mining operations are completed in the Aspen IX Expansion Area, the conveyor belt system would be removed and its footprint reclaimed in accordance with the amended Reclamation Plan.

Topsoil and overburden removal would not precede surface mining activities by more than 1 year. The removed topsoil and other overburden material would be used for reclamation as soon as could be accommodated by the surface mining schedule. Topsoil that couldn't be utilized immediately for reclamation would be stockpiled in areas where it would not be disturbed until utilized for reclamation at a later time. If long-term storage is necessary, stockpiles would be seeded to control erosion and the loss of biological components. Topsoil would be redistributed in such a manner that it is placed on top of the reclaimed surface in a stable form and uniform thickness.

Water from existing on-site wells outside the surface mining footprint would be used for dust-suppression purposes on exposed areas disturbed by mining activities, internal haul roads, and material stockpiles, as necessary, in order to minimize fugitive dust. The groundwater well near the future Knox Road entrance and parking area would be retained to supply water for dust suppression.

Once surface mining operations are complete, final reclamation of the Project site would occur over two years from 2046-2047 in accordance with the amended Reclamation Plan. The Project site would be reclaimed with a similar end use as the existing surrounding mining areas, which consist of open space annual grassland, irrigated pasture suitable for grazing, and stormwater retention pond areas. To achieve this end use, overburden and topsoil would be placed and graded to provide an appropriate growing medium for the establishment of a protective vegetative cover and future forage use. Slopes would be reclaimed to no steeper than two feet horizontal to one foot vertical (2:1), with rounded edges in order to mimic surrounding landforms, and then seeded to prevent erosion. After reclamation slopes have been constructed, the pit floor would be completed and seeded with an appropriate grassland or pasture seed mix selected for forage value. Reclamation of all mined areas within the Project Site would create a total of approximately 62 acres of grassland slopes surrounding approximately 158 acres of annual grassland habitat within the reclaimed floor. Approximately 16 acres of other areas, such as those used for former stockpile areas, berms, future pads for road rights-of-way, etc., would also be restored back to grasslands.

The Project would not amend the allowable hours established by the existing Mining Use Permit, which permits operations between 4:00 a.m. and 10:00 p.m.; however, typical operations would occur from 6:00 a.m. to 9:00 p.m. on weekdays. No surface mining would occur overnight, but portable lighting may be used for dark hours depending on the time of year.

2.1 NEARBY SENSITIVE LAND USES

A sensitive receptor is a person in the population who is particularly susceptible to health effects due to exposure to an air contaminant. SMAQMD defines sensitive receptor locations as residences, schools, places of employment, recreational areas, and any other locations where one or more individuals are anticipated to be for an extended, continuous period of time (SMAQMD 2013).

The nearest sensitive receptors are the scattered residences to the south of the proposed Aspen IX boundary along Florin Road. The closest residence is approximately 90 feet south of the Project boundary, with other residencies approximately 950 feet south of the Project boundary. There are also scattered residences approximately 750 feet to the northeast of the proposed Aspen IX boundary along Elder Creek Road. In addition, the Bethany Slavic Mission Church is located approximately 940 northwest of the north of the proposed Aspen VII boundary along Jackson Road.

3 SACRAMENTO METRO AIR QUALITY MANAGEMENT DISTRICT

SMAQMD is responsible for monitoring air pollution within Sacramento County and for developing and administering programs to reduce air pollution levels below the health-based standards set by the State and federal governments. A summary of the SMAQMD's roles, responsibilities, and guidance is provided below.

3.1 CRITERIA AIR POLLUTANTS

SMAQMD is the primary agency responsible for attainment measures to comply with the National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS) in Sacramento County. SMAQMD works with other local air districts in the Sacramento region to maintain the region's portion of the State Implementation Plan (SIP) for ozone. The SIP is a compilation of plans and regulations that govern how the region and State will comply with the Clean Air Act requirements to attain and maintain the NAAQS for ozone. The Sacramento region has been designated as a "severe" 2015 8-hour ozone nonattainment area with an extended attainment deadline of June 15, 2019. The 2023 *Sacramento Regional 2015 NAAQS 8-Hour Ozone Attainment & Reasonable Further Progress Plan* was approved by the California Air Resources Board (CARB) on October 26, 2023, and the approval request was sent to the US Environmental Protection Agency (EPA) on November 17, 2023.

SMAQMD has developed a set of guidelines for use by lead agencies when preparing environmental documents. The guidelines contain thresholds of significance for criteria pollutants and toxic air contaminants (TACs) and make recommendations for conducting air quality analyses and health risk assessments (HRAs). After SMAQMD guidelines have been consulted and the air quality impacts of a project have been assessed, the lead agency's analysis undergoes a review by SMAQMD. SMAQMD submits comments and suggestions to the lead agency for incorporation into the environmental document.

All projects are subject to adopted SMAQMD rules and regulations in effect at the time of mining. The following specific rules may be relevant to mining operations:

- Rule 201: General Permit Requirements. Any project that includes the use of equipment capable of releasing emissions into the atmosphere may be required to obtain permits from SMAQMD before equipment operation.

The applicant, developer, or operator of a project that includes an emergency generator, boiler, or heater should contact SMAQMD early to determine whether a permit is required and to begin the permit application process. Portable construction equipment (e.g., generators, compressors, pile drivers, lighting equipment) with an internal combustion engine greater than 50 horsepower must have an SMAQMD permit or CARB portable-equipment registration.

- Rule 202: New Source Review. The purpose of this rule is to provide for the issuance of authorities to construct and permits to operate at new and modified stationary air pollution sources and to provide mechanisms, including emission offsets, by which authorities to construct such sources may be granted without interfering with the attainment or maintenance of ambient air quality standards.
- Rule 207: Federal Operating Permit. The purpose of this rule is to establish an operating permitting system consistent with the requirements of Title V of the United States Code and pursuant to the Code of Federal Regulations, Title 40, Part 70. Stationary sources subject to the requirements of this rule are also required to comply with any other applicable federal, State, and SMAQMD orders, rules, and regulations, including requirements pertaining to prevention of significant deterioration pursuant to Rule 203, requirements to obtain an authority to construct pursuant to Rule 201, and applicable requirements under SMAQMD's new source review rule in the SIP.
- Rule 402: Nuisance. A person shall not discharge from any source whatsoever quantities of air contaminants or other materials that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or the endanger the comfort, repose, health, or safety of any such persons or the public, or that cause or have natural tendency to cause injury or damage to business or property.
- Rule 403: Fugitive Dust. The developer or contractor is required to control dust emissions from earthmoving activities or any other construction activity to prevent airborne dust from leaving the project site. Fugitive dust controls include the following procedures:
  - Water all exposed surfaces two times daily.
  - Cover or maintain at least 2 feet of free board on haul trucks transporting soil, sand, or other loose material on the site.
  - Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day.
  - Limit vehicle speeds on unpaved roads to 15 miles per hour.
  - All roadways, driveways, sidewalks, and parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
  - Minimize idling time either by shutting equipment off when not in use or by reducing the time of idling to 5 minutes.
  - Maintain all construction equipment in proper working condition according to manufacturer specifications.
- Rule 442: Architectural Coatings. The purpose of this rule is to limit the emissions of volatile organic compounds from the use of architectural coatings supplied, sold, offered for sale, applied, solicited for application, or manufactured for use within Sacramento County.
- Rule 902: Asbestos. The developer or contractor is required to notify SMAQMD of any regulated renovation or demolition activity. Rule 902 contains specific requirements for surveying, notification, removal, and disposal of material containing asbestos.

3.2 TOXIC AIR CONTAMINANTS

At the local level, air districts may adopt and enforce CARB control measures for TACs. Under SMAQMD Rule 201 ("General Permit Requirements"), Rule 202 ("New Source Review"), and Rule 207 ("Federal Operating Permit"), all sources that possess the potential to emit TACs are required to obtain permits from SMAQMD. Permits may be granted to these operations if they are constructed and operated in accordance with applicable regulations, including New Source Review standards and air toxics control measures. SMAQMD limits emissions and public exposure to TACs through a number of programs. SMAQMD prioritizes TAC-emitting stationary sources based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors.

3.3 ODORS

Although offensive odors rarely cause physical harm, they can be very unpleasant, leading to considerable stress among the public and often generating citizen complaints to local governments and SMAQMD. SMAQMD's Rule 402 ("Nuisance") regulates odors.

3.4 GREENHOUSE GAS EMISSIONS

SMAQMD has developed guidance for evaluating project-generated GHGs in CEQA analyses. Guidance and thresholds have been developed for land use development (residential and commercial projects) and industrial projects. SMAQMD recommends that lead agencies compare the project's estimated GHG emissions to the following thresholds of significance:

- construction phase of all project types to 1,100 metric tons of carbon dioxide equivalent ($MTCO_2e$) per year, and
- stationary source operational emissions to 10,000 $MTCO_2e$ per year.

For industrial and stationary source projects, SMAQMD recommends that lead agencies compare the stationary source project's annual direct operational GHG emissions to the 10,000 $MTCO_2e$ per year threshold of significance for stationary sources. If the project's annual direct GHG emissions exceed this threshold of significance, then the project may have a cumulatively considerable contribution to a significant cumulative environmental impact. In addition, stationary source emissions shall also be evaluated in the context of the applicable regulatory environment that is in place under the statewide mandates, including Senate Bill (SB) 32, the Climate Change Scoping Plan, and others. To remain consistent with the previous GHG emissions analysis provided in the Aspen VIII and IX Final EIR (County of Sacramento 2016), SMAQMD's stationary sources operational phase threshold of 10,000 $MTCO_2e$ per year was determined to be the appropriate threshold for the proposed Project.

4 SACRAMENTO COUNTY CLIMATE ACTION PLAN

The Project is located within the Vineyard community of unincorporated Sacramento County. Sacramento County adopted its Communitywide Climate Action Plan (CAP) on November 5, 2024. The CAP is a comprehensive plan for reducing GHG emissions and adapting to the effects of climate change that identifies strategies and measures to meet the State of California's 2030 and 2045 GHG emissions reduction targets. The CAP is based on substantial evidence that the GHG measures will enable the County to meet its targets for 2030 and 2045, and the CAP will be monitored and updated over time to ensure that it remains on track to achieve the target. The CAP estimates unincorporated Sacramento County's future emissions based on the growth projections outlined in the General Plan's Land Use and Housing Elements, as well as reasonably expected growth induced by in progress general plan amendments and rezoning efforts (County of Sacramento 2024).

The CAP includes the required elements of "a plan for the reduction of greenhouse gas emissions" set forth in CEQA Guidelines Section 15183.5(b). Therefore, the CAP is a CEQA-qualified climate action plan. The CAP includes a Consistency Review Checklist (CAP Checklist), which allows project-specific environmental documents, if eligible, to tier from and/or incorporate by reference the CAP's programmatic review of GHG impacts in their cumulative impact analyses for GHGs. The CAP Checklist provides a mechanism for projects to specifically identify "those requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project" per Section 15183.5(b)(2) of the CEQA Guidelines. A Preliminary Draft CAP Consistency Checklist was published along with the Final CAP but may be amended over time (County of Sacramento 2024).

The CAP Checklist is meant to streamline the CEQA analysis for land use development projects. The measures in the CAP Checklist are aimed at reducing emissions from residential, commercial, and industrial land use development that include physical buildings by promoting tree planting, decarbonizing motor vehicle travel, reducing vehicle miles traveled, and decarbonizing building energy usage. However, as the proposed Project does not include the development of any physical buildings, these measures would not be applicable to Project. Therefore, the analysis herein does not rely on the CAP Checklist. Instead, a stand-alone analysis is provided to demonstrate how the Project would achieve consistency with the CAP.

5 METHODOLOGY

Surface mining activities on the Project site include off-road equipment operation for surface mining and transferring aggregate to the existing Perkins Plant via conveyor system. The conveyor system would allow aggregate mined within the proposed Aspen VIII and IX Expansion Areas to flow directly to the Perkins Plant. Overburden would be stored on-site and used for reclamation at a later time. There would be no off-site haul trucks for the proposed Project. There will be no change to employment compared to the current operation at the Aspen VIII and IX mining areas. The methodology for identifying surface mining-related emissions and evaluating the human health effects of these emissions is presented below.

5.1 MASS CRITERIA AIR POLLUTANT AND GHG EMISSIONS

Mining and reclamation activities associated with the proposed Project would generate emissions of reactive organic gases (ROG), nitrogen oxides (NO_X), carbon monoxide (CO), sulfur oxides (SO_X), particulate matter with diameter less than 10 micrometer (PM_{10}), particulate matter with diameter less than 2.5 micrometer ($PM_{2.5}$), and GHGs that could result in short-term and long-term impacts on ambient air quality. Sources of surface mining-related emissions include off-road equipment exhaust, as well as exhaust, road, brake wear, and tire wear fugitive dust (PM_{10} and $PM_{2.5}$) associated with employee vehicles.

As discussed above in Section 2, "Project Description," aggregate mining would occur over an area of 245.64 acres. The surface mining process includes removal of overburden, stockpiling overburden for reclamation, and surface mining within smaller subareas within the Aspen VIII and IX Expansion Areas. As surface mining progresses in one subarea, removal of topsoil would begin in the next subarea. Once surface mining is complete in one subarea, overburden would be added back into that subarea as reclamation activities begin. The process would continue in this manner for the life of the surface mining phase of the Project (i.e., over the proposed 20-year period from 2026-2045). The process is assumed to be continuous and the equipment assumed in the analysis reflects the entirety of this process (e.g., overburden, surface mining, and subarea reclamation). Once the surface mining phase is completed, final reclamation would occur across the entire Project site in accordance with the amended Reclamation Plan.

Consistent with the existing operation on-site, production rates of the surface mining operation would vary as a function of market demand, with an estimated maximum production rate of approximately 1–3 million tons per year and a total of up to 13 million tons to be mined over the life of the Project. For purposes of analysis, it was estimated that there would be 1.8 million tons of material moved annually. Surface mining operations would commence with the removal of several feet of topsoil followed by the removal of 4–20 feet of clay and sand overburden, which overlays the aggregate deposits. Once the topsoil and overburden are removed to expose the aggregate deposit, extraction of the aggregate resource, typically ranging in thickness from 15 to 35 feet, would begin with the use of heavy construction equipment. Heavy construction equipment used for the Project would typically consist of a combination of backhoes, front loaders, bulldozers, scrapers, and blade/motor-grinders, which would be brought on-site at the beginning of the Project and would remain on-site for the duration of the surface mining operation.

Equipment assumptions were provided by the project applicant. Equipment assumptions are shown in Table 1.

Table 1 Equipment Assumptions

Equipment Type	Pieces	Engine Model Year	Engine HP	Estimated Yearly Hours of Operation
Rubber tire loader (Cat 990)	1	2017	699	2,400
Rubber tire loader (Cat 988K)	1	2016	541	1,900
Rubber tire loader (Cat 988KXE)	1	2019	580	1,900
Crawler tractors (Cat D10T2)	1	2014	570	1,700
Crawler tractors (Cat D6)	1	2019	470	1,000
Scrapers (Cat 657E)	1	2019	630	1,000
Scrapers (Cat 657E)	1	2019	400	1,000
Scrapers (Cat 657E)	1	2018	630	1,000
Scrapers (Cat 657E)	1	2018	400	1,000
Scrapers (Cat 657E)	1	2018	630	1,000
Scrapers (Cat 657E)	1	2018	400	1,000
Scrapers (Cat 657E)	1	2019	630	1,000
Scrapers (Cat 657E)	1	2019	400	1,000
Graders (Cat 16H)	1	2018	410	600
Tampers/rammers (Cat 815F)	1	2015	232	150
Excavators (Cat 390F)	1	2016	530	350
Haul trucks (Komatsu HM350)	1	2016	394	350
Haul trucks (Komatsu HM350)	1	2017	394	350

Source: Teichert, pers. comm., 2024.

Quantification of air pollutant emissions were based on a combination of methods, including the use of emission factors from EPA, emission rates for equipment from CARB's OFFROAD, and emission rates for worker vehicles from CARB's EMFAC 2021 model. In addition, the project applicant provided air quality information related to the ongoing operation of the existing Aspen VIII and IX mining areas, which is being tracked using SMAQMD's Construction Mitigation Tool (July 2024). Project-generated emissions were modeled based on this information and information provided in the project description to estimate reasonable worst-case conditions.

This mining schedule represents the "worst-case" analysis scenario, which is that the equipment shown in Table 1 operates throughout the life of the Project. For example, the Cat 990 loader is assumed to be a 2017 model year,

expected to operate 2,400 hours per year, and that same loader is assumed to operate throughout the life of the Project. However, the reality is that as equipment ages and better technology becomes available, the fleet will be upgraded over time. Newer equipment tends to emit less than older equipment. Thus, as equipment is turned over, emissions per rate of activity will decrease over time. This turnover in equipment is not quantified in this analysis.

Emissions from worker commute trips were estimated assuming nine employees per day in the expansion area (Fehr & Peers 2024) and a CalEEMod (version 2022.1) default worker trip length of 11.08 miles per trip, based on worker emission rates calculated from EMFAC. Specific model assumptions, model inputs, and calculation sheets can be found in Appendix A.

5.2 HEALTH RISK ASSESSMENT

To determine health risk and pollutant concentrations at specific locations (i.e., receptors), air dispersion modeling was conducted using site-specific parameters (e.g., terrain, meteorological data) to generate the ground-level pollutant concentrations prior to risk calculations. Dispersion modeling was conducted using CARB's approved American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee modeling system (AERMOD) Version 23132, with a unit emission rate of 1 gram per second (g/s) for modeled sources or source groups. This approach is used so that the resulting ground-level concentrations (GLCs) can be easily scaled for various scenarios (e.g., default model runs, reduced emissions scenario) without running AERMOD multiple times. Then, the ground-level concentrations from the AERMOD run at each receptor location were multiplied by actual emission estimates to obtain the actual ground-level concentrations for TACs.

This HRA includes an evaluation of diesel PM emissions (PM_{10} exhaust as surrogate) from diesel-powered heavy-duty surface mining equipment used within the Project site. The total diesel PM emissions were divided by the anticipated annual workdays to obtain average emission rate. The heavy-duty equipment's location was based on each surface mining phase's location. Emissions estimates from surface mining equipment are shown in Appendix A.

It is worth noting that the modeling assumptions are based on a set of assumptions provided by the project applicant. These assumptions represent the sequencing of surface mining activities to the best of our knowledge at the time of analysis. surface mining is expected to take place over a number of years, starting in Aspen VIII and then proceeding to Aspen IX. It was assumed that mining acreage would be similar year to year.

For the Aspen VIII Expansion Area, surface mining activity is assumed to start in the southeast corner of the area, closest to the Aspen VIII mine area and the existing conveyor alignment, then proceed to the north. For the Aspen IX Expansion Area, surface mining activity is assumed to start near the middle of the expansion area, where the proposed conveyor alignment will be located. Mining would then radiate out both east and west from the center and would proceed to the Project boundary.

This approach allows for future flexibility while ensuring risk is modeled using conservative assumptions. This HRA assumes surface mining occurs consistently and sequentially throughout the Project area and activity proceeds out from the center of both expansion areas. Since residences are only in proximity to the edges of the Project area, most of the activity would take place far from residences. For instance, the proposed conveyor alignment in Aspen IX is approximately 2,500 feet from the nearest residential use. In Aspen IX, if more activity were to occur in the west subarea versus the east, or vice versa, this would have little to no bearing on pollutant concentrations at nearby residences because the residences are at such a distance from the majority of activity that concentrations and associated health effects would be minimal.

In addition, as discussed in further detail in Section 4.1, "Mass Criteria Pollutant and GHG Emissions," this analysis assumes that the same equipment operating on day 1 of surface mining would continue to operate throughout the life of the surface mining operation. However, the reality is that as equipment ages and better technology becomes available, the fleet will be upgraded over time. It is reasonable to assume that some equipment will be replaced over

the life of the surface mining operation, thereby reducing emissions from that equipment over time. However, this turnover in equipment is not quantified in this analysis.

5.3 AERMOD MODEL CONFIGURATION

The air dispersion model used standard regulatory defaults, including local terrain and rural dispersion parameters. Terrain in the Project vicinity is generally flat. The area justified rural classification via Auer's (1977) land use technique, per EPA guidelines (EPA 2024). Assessing land use within 3 kilometers (km) of the Project site on Google Earth Pro and the Sacramento General Plan Land Use Map (Sacramento County 2011) revealed mostly agricultural and industrial land with residential houses sparsely distributed around. Hence, rural dispersion coefficients were applied in the dispersion model.

The following input parameters were used in the model run:

- projected coordinate system: Universal Transverse Mercator (UTM) zone 10;
- geographic datum: World Geodetic System (WGS) of 1984;
- rural land use based on AERMOD's Land Use Procedure based on the level of development within a 3-km radius of the Project site;
- period (i.e., annual) averaging of concentrations for mining activity;
- unit emission rate of 1 g/s for all grouped sources; and
- US Geologic Survey North American Datum AD 27 7.5-minute terrain data.

INPUTS AND ASSUMPTIONS

Meteorological Data

Preprocessed meteorological data from 2014 to 2018 collected at the Sacramento International Airport station were obtained from SMAQMD's CEQA Guidance Tools website. The model was set to run 5 years (i.e., 2014–2018) of the data. The station is approximately 19 miles northwest of the Project site and the most representative meteorological station for the Project site. This station was chosen because it has similar elevation, distance to the coast, and surrounding land uses to the Project site. The wind at the station primarily blows from the south-southeast.

Receptors

Receptors are specific points within the Project impact area where pollutant concentrations and potential health risks are assessed. For this HRA, the Project impact area refers to the region extending 0.25 miles from the Project site boundaries per SMAQMD (2013) guidance. The model evaluated 199 receptor locations, spaced 10 meters apart at sensitive land uses (residential and church locations) within the Project impact area (Figure 1). All receptors were given a flagpole receptor height of 1.8 meters per SMAQMD (2013) guidance.

Source Type and Dimensions

For the Project site, off-road heavy-duty equipment was modeled where surface mining activities would occur as a set of adjacent volume sources strung within the Aspen VIII and IX Expansion Areas. Each phase is associated with a specific set of arrayed volume sources for diesel PM emissions. For purposes of analysis, surface mining on the Aspen VIII Expansion Area was represented as 64 volume sources per year for the 5-year timeframe. Mining and reclamation of the Aspen IX Expansion Area involves simultaneous surface mining and subsequent reclamation in both the east and west subareas. The Aspen IX area was represented as 58 volume sources per year, spread evenly into the east and west areas. Emissions associated with surface mining and reclamation were modelled using the same sources in

AERMOD since activity occurs in the same area. Each volume source had a side length of 30 meters, an initial lateral dimension of 6.98 meters, an initial vertical dimension of 1 meter, and a release height of 5 meters. The volume source coverage, distance to Project boundaries, and configuration of each volume source are consistent with the coverage recommendations within the SMAQMD CEQA Guide of at least 50 percent of the Project site to be covered by volume sources and a minimum of 4 volumes per acre of activity (SMAQMD 2013). The Project would not involve on-road haul truck trips or trucks operating on-site. AERMOD modeling inputs and outputs are provided in Appendix B.

5.4 HEALTH RISK CALCULATIONS

NONCANCEROUS RISK

To estimate the noncancerous health impacts from inhalation, airborne concentrations at the receptor site are divided by the relevant reference exposure level (REL). For chronic exposures to diesel PM, an inhalation REL of 5 micrograms per cubic meter was applied. Annual average diesel PM emissions were calculated for each phase of surface mining. The maximum diesel PM concentrations among all phases were used to determine the hazard index (HI) at each receptor.

CANCER RISK

This HRA follows the Office of Environmental Health Hazard Assessment (OEHHA) guidance (OEHHA 2015) for evaluating the health risk impacts at all sensitive receptor locations. Spreadsheets were used to calculate the concentration of diesel PM and the associated long-term cancer risks at sensitive receptors during surface mining and reclamation activities.

Cancer risks for residential receptors were estimated using the inhalation pathway of diesel PM. GLCs of exhaust PM_{10} at sensitive receptors were utilized for assessing inhalation exposure and long-term cancer risks to diesel PM. The input parameters for the risk analysis align with OEHHA guidance (OEHHA 2015), as shown in Table 2. Exposure durations for the sensitive receptors are allocated according to surface mining- and reclamation-phase duration and age groups defined in OEHHA guidance. Risk assumptions, calculations, and results are provided in Appendix B.

Table 2 Risk Parameters Used for Off-Site Residential Receptors for Cancer and Noncancerous Risk Due to Inhalation Exposure to TACs from Off-Road Emissions

Risk Parameters	Residential
Averaging time	70 years
Starting age	3rd trimester
Exposure frequency	0.96 (350 days per year)
Fraction of time at home	0.85 for 3rd trimester, 0.72 for 0–2 years old, 0.73 for 2–30 years old
Daily breathing rate	Risk management policy method: the 95th percentile for < 2 years old, and the 80th percentile for >= 2 years old

Source: OEHHA 2015.

6 CEQA THRESHOLDS OF SIGNIFICANCE

6.1 AIR QUALITY

An air quality impact would be significant if implementation of the Project would:

- conflict with or obstruct implementation of the applicable air quality plan;
- 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;
- expose sensitive receptors to substantial pollutant concentrations; or
- result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

For the Project, the significance criteria used to evaluate project impacts on air quality under CEQA are based on Appendix G of the State CEQA Guidelines and thresholds of significance adopted by SMAQMD. SMAQMD's air quality thresholds of significance are tied to achieving or maintaining attainment designations with the NAAQS and CAAQS, which are scientifically substantiated numerical concentrations of criteria air pollutants considered to be protective of human health. Implementing the Project would have a significant impact related to air quality such that human health would be adversely affected if it would (SMAQMD 2020):

- cause construction-generated criteria air pollutant or precursor emissions to exceed the SMAQMD-recommended thresholds of 85 lb/day for NO_X, 80 lb/day or 13.2 tons per year (tpy) for PM_{10}, and 82 lb/day or 15 tpy for $PM_{2.5}$ after SMAQMD's Basic Construction Emission Control Practices (construction best management practices [BMPs]) have been implemented;
- result in a net increase in long-term operational criteria air pollutant or precursor emissions that exceed the SMAQMD-recommended thresholds of 65 lb/day for ROG and NO_X, 80 lb/day or 13.2 tpy for PM_{10}, and 82 lb/day or 15 tpy for $PM_{2.5}$ after SMAQMD's best available control technology (BACT) and operational BMPs have been applied;
- result in long-term operational local mobile-source CO emissions that would violate or contribute substantially to concentrations that exceed the 1-hour CAAQS of 20 parts per million (ppm) or the 8-hour CAAQS of 9 ppm;
- result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

6.2 HEALTH RISK

According to SMAQMD CEQA Handbook (SMAQMD 2013), a project's impact on health risks would be considered significant under CEQA if the project-related increase in risks exceeds the following:

- an incremental increase in cancer risk (i.e., the risk of contracting cancer) greater than 10 in one million at any off-site receptor, or
- a noncarcinogenic hazard index of 1.0 or greater at any off-site receptor.

Results of this HRA are compared to the SMAQMD-adopted thresholds of significance.

6.3 GREENHOUSE GASES

The significance criteria used to evaluate Project impacts on climate change under CEQA are based on Section 15064 of the State CEQA Guidelines and relevant portions of Appendix G of the State CEQA Guidelines, which recommend

that a lead agency consider a project's consistency with relevant, adopted plans and discuss any inconsistencies with applicable regional plans, including plans to reduce GHG emissions. Implementation of the Project would result in a cumulatively considerable contribution to climate change if it would:

- generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

For purposes of this analysis, analysis related to these two checklist items has been combined into a single impact discussion.

With respect to GHG emissions, the State CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The State CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or performance-based standards" (Section 15064.4[a]). A lead agency may use a "model or methodology" to estimate GHG emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change" (Section 15064.4[c]). The State CEQA Guidelines provide that the lead agency should consider the following when determining the significance of impacts of GHG emissions on the environment (Section 15064.4[b]):

- the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting,
- whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project, and
- the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

7 IMPACT ANALYSIS

7.1 IMPACT 1: CONFLICT WITH OR OBSTRUCT APPLICABLE AIR QUALITY PLANS

Sacramento County is currently in nonattainment for ozone and $PM_{2.5}$ relative to the NAAQS and for ozone and PM_{10} relative to the CAAQS. The most current air quality attainment plans adopted by SMAQMD are the *2023 Sacramento Regional Plan for the 2015 70 ppb 8-Hour Ozone Standard*, adopted in October 2023, and the Sacramento Area Council of Governments (SACOG) 2020 Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS). The 2020 MTP/SCS was adopted on November 18, 2019. In November 2022, the SACOG Board of Directors authorized SACOG staff to pursue State legislation to extend the SACOG's MTP/SCS update schedule, which moved the plan adoption date from spring 2024 to fall 2025. Assemblymember Cecilia Aguiar-Curry subsequently introduced a bill (AB 350) providing SACOG with the legislative authorization needed to keep the current 2020 MTP/SCS in compliance with State law for an additional 2 years. This legislation went into effect on January 1, 2024.

The emissions inventories used to develop these plans are based primarily on projected population and employment growth and associated vehicle miles traveled (VMT) for the Sacramento Valley Air Basin (SVAB or Basin). Estimates of this regional growth are based in part on the planned growth identified in regional and local land use plans, such as general plans and distinct area plans. Therefore, projects that would result in population or employment growth beyond that projected in regional and local plans could result in increases in VMT exceeding that forecasted in the attainment plans, in turn resulting in mobile-source emissions that could conflict with or obstruct implementation of air quality plans. Increases in VMT beyond that projected in Sacramento County (County's) General Plan, SACOG's

regional VMT modeling, and SMAQMD regional air quality plans generally would be considered to have a significant adverse incremental effect on the SVAB's ability to attain the NAAQS and CAAQS for all criteria air pollutants.

The Project would not induce growth, because it would utilize existing employees as part of continued surface mining operations on the site and would thus not increase population or employment. Furthermore, the Project does not propose a change in land uses, because all assessor's parcel numbers (APNs) within the Project site are zoned for surface mining (SM), which indicates that these parcels have been determined by the County to be appropriate for surface mining with the grant of a mining use permit. Due to the existing SM zoning designation, the Project does not require any rezoning. Because the Project would not induce growth and would not result in a change in land use type, emissions from the proposed Project would not exceed those accounted for in the *2023 Sacramento Regional Plan* or SACOG's 2020 MTP/SCS. Thus, Project impacts would be less than significant.

7.2 IMPACT 2: RESULT IN CRITERIA AIR POLLUTANT EMISSIONS ABOVE SMAQMD THRESHOLDS

Project implementation would result in the generation of emissions of ROG, NO_X, PM_{10}, and $PM_{2.5}$. Criteria air pollutants and precursors would result from off-road equipment from surface mining activities and worker commute trips. Fugitive dust emissions of PM_{10} and $PM_{2.5}$ would be associated primarily with on-site equipment, such as scrapers and dozers. PM_{10} and $PM_{2.5}$ are also contained in exhaust from off-road equipment and on-road vehicles. Emissions of ozone precursors, ROG and NO_X, would be associated primarily with construction equipment and on-road mobile exhaust.

With approval of the amended Mining Use Permit and Reclamation Plan, surface mining would occur at the Project site over a 20-year period beginning in 2026 and ending in 2045 with final reclamation of the Project site to be completed over 2 years, ending in 2047. Surface mining is proposed to occur over two phases. Phase 1 of surface mining and localized reclamation is proposed to begin at the Aspen VIII Expansion Area and progress in a southerly direction toward the existing Aspen VIII mine, and Phase 2 would consist of surface mining operations and localized reclamation within the Aspen IX Expansion Area. After completion of surface mining operations, final reclamation of the entire Project site to open space grassland would occur in a manner consistent with the amended Reclamation Plan and applicable permits/approvals.

Surface mining operations primarily involve the use of construction equipment (e.g., graders, crawler tractors, dozers, excavators, off-highway trucks, and haul trucks). Therefore, due to the nature of the Project, there is no distinction between construction and operational phases/activities. Implementation of the Project would result in criteria pollutant emissions from the use of heavy equipment and worker commute trips. The proposed Project would include the extension of the existing conveyor belt system to allow material to continue to be conveyed to the existing Perkins Plant rather than transported by truck. This would avoid pollutant emissions related to haul trucks.

Table 3 provides a summary of criteria air pollutant emissions related to the expanded surface mining operations. As shown, emissions of all criteria pollutants are below SMAQMD regional construction thresholds except for PM_{10} and $PM_{2.5}$ from fugitive dust. This exceedance is due primarily to off-road equipment usage, such as dozers and scrapers, during surface mining. SMAQMD regional construction thresholds are intended to maintain or achieve attainment designations in the Basin with respect to the CAAQS and NAAQS. Thus, because the Project exceeds these thresholds prior to mitigation, it would impede the nonattainment status of the region during surface mining. This impact would be **significant**.

Table 3 Summary of Maximum Daily and Annual Emissions of Criteria Air Pollutants and Precursors before Implementation of Dust Control

Emission Source	ROG (lb/day)	NO_X (lb/day)	PM_{10} Exhaust (lb/day)	PM_{10} Dust (lb/day)	$PM_{2.5}$ Exhaust (lb/day)	$PM_{2.5}$ Dust (lb/day)	PM_{10} Total (tpy)	$PM_{2.5}$ Total (tpy)
Off-road equipment	17.2	59.2	3.9	<0.1	3.6	<0.1	0.2	0.1
On-road travel (worker trips)	0.2	0.4	0.1	0.1	0.1	<0.1	<0.1	<0.1
On-site fugitive dust	—	—	—	76	—	16	9	2
Total emissions	**17.4**	**59.6**	**3.9**	**76**	**3.6**	**16**	**9**	**2**
SMAQMD threshold [a]	**65**	**65**	**0/80**	**—**	**0/82**	**—**	**0/14.6**	**0/15**
Exceed threshold?	**No**	**No**	**Yes**	**—**	**Yes**	**—**	**Yes**	**Yes**

Notes: SMAQMD = Sacramento Metropolitan Air Quality Management District; ROG = reactive organic gases; NOx = oxides of nitrogen; $PM_{2.5}$ = fine particulate matter; PM_{10} = respirable particulate matter; lb/day = pounds/day; tpy = tons per year.

[1] SMAQMD recommends using a 0 lb/day threshold of significance for evaluating construction-related emissions of PM_{10} and $PM_{2.5}$ before the implementation of best management practices. Following the implementation of best management practices or the best available control technology, construction emissions of PM_{10} are evaluated against a threshold of significance of 80 lb/day, and $PM_{2.5}$ is evaluated against a threshold of significance of 82 lb/day.

Source: Modeled by Ascent in 2025.

Mitigation Measures

Mitigation Measure AQ-1.2, "Implementation of Best Available Control Technology (BACT) and Best Management Practices (BMPs) to reduce PM Emissions Mitigation Measure," from the Aspen VIII and IX Final EIR (reproduced below from Section 10, "Air Quality" of the Final EIR) would be sufficient in reducing PM_{10} and $PM_{2.5}$ emissions from fugitive dust associated with Project implementation to a less than significant level. Therefore, this mitigation measure will be incorporated into the proposed Project.

Mitigation Measure AQ-1.2: Implementation of Best Available Control Technology (BACT) and Best Management Practices (BMPs) to reduce PM Emissions Mitigation Measure

Implement basic construction emission control practices to control PM emissions on and off-site, including:

- All disturbed areas on site shall be treated with appropriate dust suppressants, watered regularly, vegetated, or otherwise treated to minimize fugitive dust. Comply with Section 4.8.14.H, "Guidelines for Suppressing Dust," of the County's Zoning Code.
- Cover or maintain at least 2 feet of free board space on haul trucks transporting soil, sand, or other loose material off the site and onto public roadways. Any haul trucks that would be traveling along freeways or major roadways should be covered.
- Visible trackout of mud or dirt onto adjacent public roads shall be prevented through the incorporation of rumble strips, gravel aprons, appropriate dust suppressant, a long sinuous driveway, or a combination thereof. If these measures are not adequate, the applicant shall work with the County and SMAQMD to implement additional measures. If trackout is present on public roads adjacent to the mine entrances, wet power vacuum street sweepers shall be used to remove any visible trackout mud or dirt. Use of dry power sweeping is prohibited.
- Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).

- Minimize idling time either by shutting equipment off when not in use or by reducing the time of idling to 5 minutes [required by California Code of Regulations, Title 13, Sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site.
- Maintain all construction equipment in proper working condition according to manufacturer specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.

Implement enhanced fugitive PM dust control practices including:

- Soil disturbance areas:
  - All disturbed on-site shall be treated with appropriate dust suppressants, watered regularly, vegetated, or otherwise treated to minimize fugitive dust.
  - Suspend excavation, grading, and/or demolition activity when wind speeds exceed 20 mph.
  - Plant vegetative ground cover (fast-germinating native grass seed) in disturbed areas as soon as possible. Water appropriately until vegetation is established.
- Unpaved roads (entrained road dust):
  - Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The phone number of SMAQMD shall also be visible to ensure compliance.

Significance after Mitigation

As stated above, implementation of SMAQMD's Basic and Enhanced Construction Emission Control Practices dust control measures would allow for use of SMAQMD's non-zero thresholds for PM_{10} and $PM_{2.5}$. These non-zero thresholds are 80 lb/day or 14.6 tpy of PM_{10} and 82 lb/day or 15 tpy of $PM_{2.5}$. As shown in Table 4, implementation of basic and enhanced BMPs as part of Mitigation Measure AQ-1.2 would reduce PM_{10} and $PM_{2.5}$ below the daily and annual thresholds.

Mitigation Measure AQ-1.2 would reduce impacts related to fugitive dust emissions from soil-disturbing activities by watering exposed soil with adequate frequency for continued moist soil; suspending excavation, grading, and demolition activity when wind speeds exceed 20 mph; planting vegetation cover; and minimizing equipment and limiting truck idling time when equipment is not in use. Road dust would be reduced by installing wheel washers for all exiting trucks and equipment leaving the site; treating site accesses to a distance of 100 feet from the paved road with a 6 to 12-inch layer of wood chips, mulch, or gravel to reduce generation of road dust and road dust carryout onto public roads; and posting a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. Therefore, implementation of Mitigation Measure AQ-1.2 would reduce Project-generated fugitive dust emissions to a less than significant level and as such, impacts would be **less than significant with mitigation incorporated**.

Table 4 Summary of Maximum Daily and Annual Emissions of Criteria Air Pollutants and Precursors after Implementation of Dust Control

Emission Source	ROG (lb/day)	NO_X (lb/day)	PM_{10} Exhaust (lb/day)	PM_{10} Dust (lb/day)	$PM_{2.5}$ Exhaust (lb/day)	$PM_{2.5}$ Dust (lb/day)	PM_{10} Total (tpy)	$PM_{2.5}$ Total (tpy)
Off-road equipment	17.2	59.2	3.9	<0.1	3.6	<0.1	0.2	0.1
On-road travel (worker trips)	0.2	0.4	0.1	0.1	0.1	<0.1	<0.1	<0.1

On-site fugitive dust	—	—	—	34	—	7	4	1
Total emissions	**17.4**	**59.6**	**3.9**	**34**	**3.6**	**7**	**4**	**1**
SMAQMD threshold [a]	**65**	**65**	**0/80**	**—**	**0/82**	**—**	**0/14.6**	**0/15**
Exceed threshold?	**No**	**No**	**No**	**—**	**No**	**—**	**No**	**No**

Notes: SMAQMD = Sacramento Metropolitan Air Quality Management District; ROG = Reactive Organic Gases; NOx = oxides of nitrogen; $PM_{2.5}$ = fine particulate matter; PM_{10} = respirable particulate matter; lb/day = pounds/day; tpy = tons per year.

[1] SMAQMD recommends using a 0 lb/day threshold of significance for evaluating construction-related emissions of PM_{10} and $PM_{2.5}$ before the implementation of best management practices. Following the implementation of best management practices and/or the best available control technology, construction emissions of PM_{10} are evaluated against a threshold of significance of 80 lb/day, and $PM_{2.5}$ is evaluated against a threshold of significance of 82 lb/day.

Source: Modeled by Ascent in 2025

7.3 IMPACT 3: EXPOSE SENSITIVE RECEPTORS TO TAC CONCENTRATIONS

The proposed Project would contribute to localized air pollutant emissions during surface mining and reclamation activities. Project implementation would emit TACs, specifically diesel PM, on-site through the use of heavy-duty construction equipment for surface mining activities, excavation, and other miscellaneous activities.

As discussed above, an HRA was conducted to analyze the potential health risks associated with short-term construction on nearby receptors. This HRA takes into account the regulatory framework, proximity of contaminants to sensitive receptors, quantity, volume, and toxicity of the contaminants, and the likelihood and potential level of exposure. Studies show that diesel PM is highly dispersive, for example, diesel PM emissions dissipate by 70 percent at 500 feet from the source (CARB 2005).

The results of the construction HRA are summarized in Table 5. The maximally exposed sensitive receptor is the residential use that is lifetime cancer risk for the maximally exposed individual resident that is located approximately 90 feet south of the Project boundary (south of the Aspen IX area, north of Florin Road). Risk at this maximally exposed individual resident is at 7.09 chances in one million with Project implementation, which is below the SMAQMD cancer risk threshold of 10 chances in 1 million. In addition, the maximum chronic hazard index is estimated to be 0.02 with Project implementation, which is below the SMAQMD chronic hazard index threshold of 1.0. As such, this impact would be **less than significant**.

Table 5 Estimate of Construction-Related Health Risk

Element	Risk Value
Cancer risk threshold	10 chances in 1 million
Project maximum incremental cancer risk	7.09 chances in 1 million
Exceed threshold?	**No**
Hazard index threshold	1.0
Project chronic hazard index	0.02
Exceed threshold?	**No**

Source: Modeled by Ascent in 2025.

7.4 IMPACT 4: GENERATE GREENHOUSE GASES THAT COULD CONFLICT WITH GREENHOUSE GAS PLANS

Project implementation would result in GHG emissions from the use of heavy-duty off-road construction equipment and vehicle use during worker commutes. Mining operations primarily involve the use of construction equipment (e.g., graders, crawler tractors, dozers, excavators, off-highway trucks, and haul trucks). Therefore, due to the nature of the Project, there is no distinction between construction and operational phases/activities, and this discussion analyzes Project-related GHG impacts as a whole rather than by distinct construction and operational phases. The Project would not result in new vehicle trips, because expanded surface mining operations would utilize existing employees, and no materials would be hauled on public roadways. Thus, the Project would not generate GHG emissions associated with employee commutes above existing conditions. The proposed Project would include the extension of the existing conveyor belt system to allow material to continue to be conveyed to the existing Perkins Plant rather than transported by truck. This would avoid Project-generated pollutant emissions related to haul trucks.

Table 6 provides a summary of the worst-case scenario of total GHG emissions associated with annual surface mining and reclamation activities.

Table 6 Estimated Annual GHG Emissions

Source	$MTCO_2e$
Off-road equipment	2,187
On-road travel (worker trips)	19
Annual total emissions	**2,205**
SMAQMD threshold	**10,000**
Exceed threshold?	**No**

Notes: $MTCO_2e$ = metric tons carbon dioxide equivalent; SMAQMD = Sacramento Valley Air Quality Management District.

Source: Modeled by Ascent in 2024.

Project-level GHG emissions are inherently cumulative; therefore, the construction emissions listed in Table 6 are considered as part of the GHG emissions for the proposed Project lifecycle. Annual construction emission estimates shown in Table 6 include all surface mining and reclamation activities expected to occur on an annual basis for years with concurrent surface mining and reclamation activities (i.e., 2026-2045). For the two years of final reclamation (i.e., 2046-2047), emissions would be lower than those shown in Table 6 due to the less intensive nature of reclamation activities compared to surface mining operations. As shown, under the worst-case scenario, the proposed Project would generate GHG emissions of approximately 2,205 $MTCO_2e$/year, which is well below the SMAQMD industrial threshold of 10,000 $MTCO_2e$/year.

In addition, the Project would not hinder implementation of the Sacramento County CAP. Within the CAP, growth and future year emission forecast for the construction and mining sector is based on the change in countywide employment over time. While the Project would expand the surface mining footprint and operations at the Aspen VIII and IX mining area, the Project would continue to utilize the existing nine employees and as such, would not increase population or employment. In addition, the Project would not result in a change to the existing land use or zoning designation at the Project site.

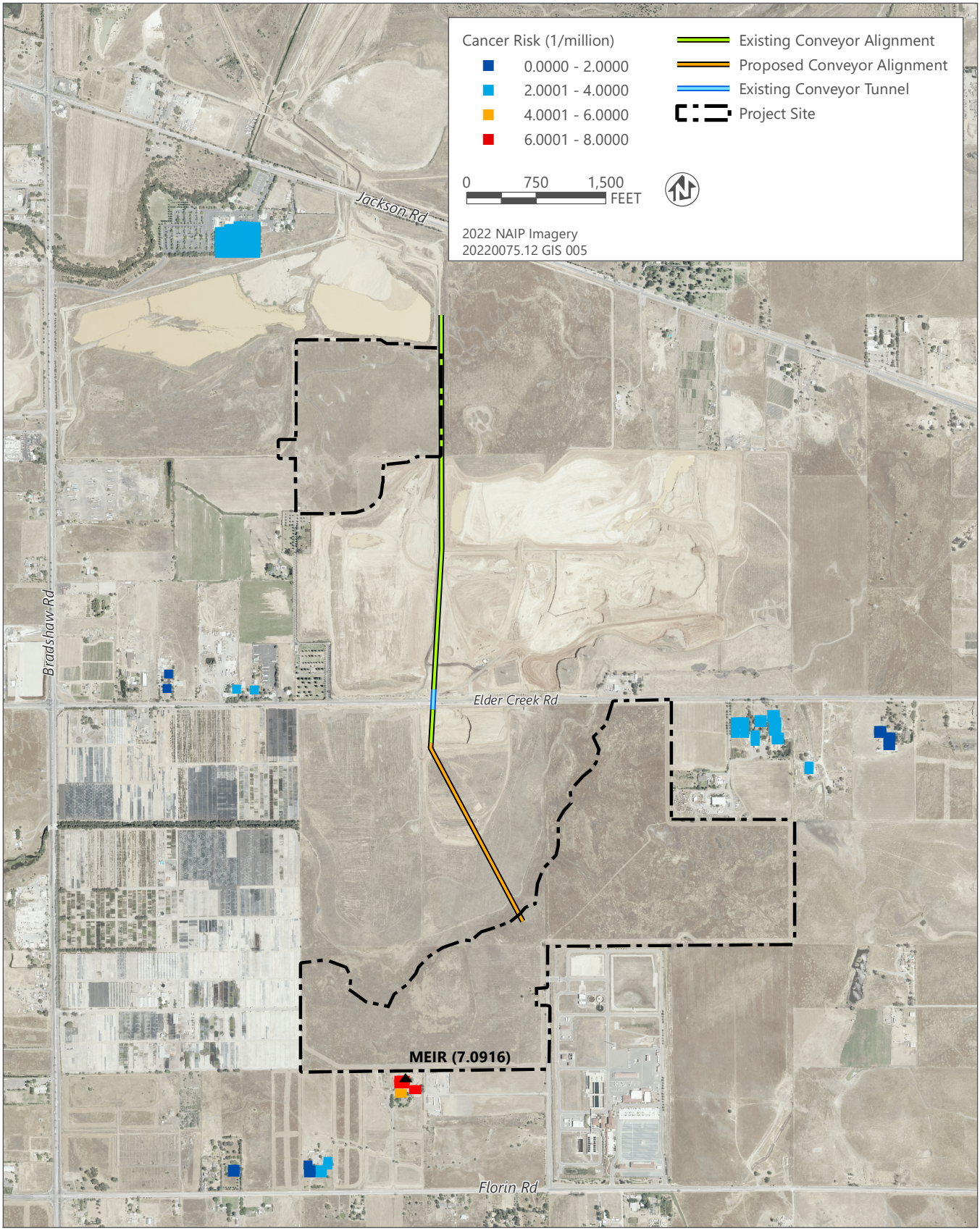
Furthermore, it is also useful to provide additional context for emissions from an aggregate mining operation. Aggregate demand arises from the need for construction materials for the new construction or maintenance of buildings, roads, and structures. Sacramento County is experiencing a high demand for aggregate products, which includes demand driven by the construction of various large projects in the region. In order to provide homes, jobs,

and other services for the current and future residents of the County, as well as expand and maintain necessary infrastructure for the movement of people and goods, it is imperative that the region continue to identify and permit reliable, cost-effective sources of aggregate material. The Project site contains a large quantity of aggregate material that is suitable for a variety of construction products that are in high demand, including Portland Cement concrete (PCC) and asphalt-ready products. The Project is being implemented to accommodate the high demand for aggregate products in the region, which includes demand driven by the construction of various large projects in the region that accommodate the County's planned population and employment growth. Therefore, the Project would be consistent with the growth assumptions in the CAP.

For these reasons, impacts related to generating GHG emissions that could conflict with GHG plans would be **less than significant**.

8 CONCLUSION

While the Project would result in daily mass emissions that would exceed SMAQMD's thresholds of significance for PM_{10} and $PM_{2.5}$ from fugitive dust, implementation of Mitigation Measure AQ-1.2 from the Aspen VIII and IX Final EIR, which requires implementation of basic and enhanced BMPs, would reduce PM_{10} and $PM_{2.5}$ emissions below the daily and annual thresholds. Mitigation Measure AQ-1.2 would also reduce impacts related to fugitive dust emissions from soil-disturbing activities by watering exposed soil with adequate frequency for continued moist soil; suspending excavation, grading, and demolition activity when wind speeds exceed 20 mph; and installing wind breaks on windward side(s) of construction areas. As such, impacts related to generating criteria air pollutant emissions above SMAQMD thresholds would be less than significant with mitigation incorporated. In addition, the Project would not exceed SMAQMD's thresholds of significance for TACs or GHG emissions. All other impacts were determined to be less than significant without requiring mitigation.



Source: Adapted by Ascent in 2025.

Figure 1 Cancer Risks and Maximally Exposed Individual Receptor

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Appendix A

Criteria Air Pollutants, Ozone Precursors, and GHG Emissions Calculations

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Emissions Summary 3
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Fugitive Dust Emissions 5
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Project Overall Schedule

Phase	Size (acre)	Start	Years
Phase 1 AspenVIII	63.26	2026	4
Phase 2 AspenIX	182.38	2030	13
Mining Total	245.6	2043	17
Reclamation	245.6	2048	2

Assumption of 240 days per year of operation up to 12 operating hours per day

Before MM

Table x: Summary of Maximum Daily Emissions of Criteria Air Pollutants and Precursors (lbs/day)

Source	ROG	NOx	PM10 E	PM2.5 E	PM10 D	PM2.5 D
Off-road Equipment	5.8	20.9	1.3	1.2	-	-
On-road Travel (Worker Trips)	0.2	0.4	0.1	0.1	0.1	0.0
On-site Fugitive Dust	-	-	-	-	84	25
Total Max Daily Emissions	5.9	21.3	1.4	1.3	84	25
SMAQMD Threshold	*65*	*65*	*0*	*0*	*0*	*0*
Exceed Threshold?	No	No	Yes	Yes	Yes	Yes

Notes: Maximum daily emissions were calculated based on 14 hours of mining operations. Fugitive dust emissions from equipment use on-site (dozers and scrapers) area estimated using CalEEMod. Emissions from conveyor loading/unloading and off-road truck use (loading/unloading and travel on unpaved roads) are estimated using AP-42 emission factors. Emissions of PM shown account for application of best available control technology and best management practices.

Annual Operational Days = 240

Table x: Summary of Maximum Annual Emissions of Criteria Air Pollutants and Precursors (TPY)

Source	ROG	NOx	PM10 E	PM2.5 E	PM10 D	PM2.5 D	PM10 T	PM2.5 T
Off-road Equipment	0.7	2.5	0.2	0.1	-	-	0.2	0.1
On-road Travel (Worker Trip	0.018	0.046	0.006	0.006	0.001	0.000	0.007	0.006
On-site Fugitive Dust	-	-	-	-	10	3	10	3
Total TPY Emissions	0.7	2.6	0.2	0.2	10	3	10	3
SMAQMD Threshold	-	-	-	-	-	-	*14.6*	*15*
Exceed Threshold?	NA	NA	NA	NA	NA	NA	No	No

After MM

Table x: Summary of Maximum Daily Emissions of Criteria Air Pollutants and Precursors (lbs/day)

Source	ROG	NOx	PM10 E	PM2.5 E	PM10 D	PM2.5 D
Off-road Equipment	5.8	20.9	1.3	1.2	-	-
On-road Travel (Worker Trips)	0.2	0.4	0.1	0.1	0.1	0.0
On-site Fugitive Dust	-	-	-	-	38	11
Total Max Daily Emissions	5.9	21.3	1.4	1.3	38	12
SMAQMD Threshold	*65*	*65*	*80*	*82*	*80*	*82*
Exceed Threshold?	No	No	No	No	No	No

Table x: Summary of Maximum Annual Emissions of Criteria Air Pollutants and Precursors (TPY)

Source	ROG	NOx	PM10 E	PM2.5 E	PM10 D	PM2.5 D	PM10 T	PM2.5 T
Off-road Equipment	0.6925	2.5040	0.1598	0.1470	-	-	0.2	0.1
On-road Travel (Worker Trip	0.0184	0.0461	0.0065	0.0062	0.0009	0.0003	0.0	0.0
On-site Fugitive Dust	-	-	-	-	5	1	5	1
Total TPY Emissions	0.7	2.6	0.2	0.2	5	1	5	2
SMAQMD Threshold	-	-	-	-	-	-	*14.6*	*15*
Exceed Threshold?	NA	NA	NA	NA	NA	NA	No	No

Table XX. Summary of Annual Operational GHG Emissions

Source	CO2e (MT)
Off-road Equipment	*2,187*
On-road Travel (Worker Trips)	*19*
Annual Total Emission	*2,205*
SMAQMD Threshold	*10,000*
Exceed Threshold?	No

Off-Road Land Equipment List

Equipment List

E#	Equipment Type (Manufacturer/ Model)	Pieces	Engine Model Year	Engine HP	Esimated Yearly Hours of Operation
1	Rubber Tire Loader (Cat 990)	1	2017	699	2,400
2	Rubber Tire Loader (Cat 988K)	1	2016	541	1,900
3	Rubber Tire Loader (Cat 988KXE)	1	2019	580	1,900
4	Crawler Tractors (Cat D10T2)	1	2014	570	1,700
5	Crawler Tractors (Cat D6)	1	2019	470	1,000
6	Scrapers (Cat 657E)	1	2019	630	1,000
7	Scrapers (Cat 657E)	1	2019	400	1,000
8	Scrapers (Cat 657E)	1	2018	630	1,000
9	Scrapers (Cat 657E)	1	2018	400	1,000
10	Scrapers (Cat 657E)	1	2018	630	1,000
11	Scrapers (Cat 657E)	1	2018	400	1,000
12	Scrapers (Cat 657E)	1	2019	630	1,000
13	Scrapers (Cat 657E)	1	2019	400	1,000
14	Graders (Cat 16H)	1	2018	410	600
15	Tampers/Rammers (Cat 815F)	1	2015	232	150
16	Excavators (Cat 390F)	1	2016	530	350
17	Haul Trucks (Komatsu HM350)	1	2016	394	350
18	Haul Trucks (Komatsu HM350)	1	2017	394	350

Modeled Equipment

CalEEMod Equipment Name	Load Factor	HP Bin	Emission Factor (g/hp-hr) ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	Equipment Emissions (lbs/yr) ROG	TOG	CO	NOx	CO2	PM10 E	PM2.5 E	SOx	CO2e (MT/yr)
Rubber Tired Loaders	0.36	750	0.17128	0.20384	1.06241	0.77885	514.029	0.05027	0.04625	0.005	228	271	1,415	1,037	684,408	67	62	6	310
Rubber Tired Loaders	0.36	600	0.20733	0.24674	1.10875	1.02754	514.029	0.05320	0.04894	0.005	169	201	905	838	419,351	43	40	4	190
Rubber Tired Loaders	0.36	600	0.17103	0.20353	1.06208	0.14631	514.029	0.01547	0.01423	0.005	150	178	929	128	449,581	14	12	4	204
Crawler Tractors	0.43	600	0.17513	0.20842	1.06736	1.07631	514.029	0.04739	0.0436	0.005	161	191	980	989	472,189	44	40	4	214
Crawler Tractors	0.43	600	0.13334	0.15869	1.01364	0.14165	514.029	0.01428	0.01314	0.005	59	71	452	63	229,029	6	6	2	104
Scrapers	0.48	750	0.11223	0.13357	0.9865	0.50942	514.029	0.03520	0.03239	0.005	75	89	658	340	342,693	23	22	3	155
Scrapers	0.48	600	0.11687	0.13909	0.99246	0.13961	514.029	0.01377	0.01267	0.005	49	59	420	59	217,583	6	5	2	99
Scrapers	0.48	750	0.11223	0.13357	0.9865	0.50942	514.029	0.03520	0.03239	0.005	75	89	658	340	342,693	23	22	3	155
Scrapers	0.48	600	0.12396	0.14753	1.00158	0.14049	514.029	0.01982	0.01823	0.005	52	62	424	59	217,583	8	8	2	99
Scrapers	0.48	750	0.11223	0.13357	0.9865	0.50942	514.029	0.03520	0.03239	0.005	75	89	658	340	342,693	23	22	3	155
Scrapers	0.48	600	0.12396	0.14753	1.00158	0.14049	514.029	0.01982	0.01823	0.005	52	62	424	59	217,583	8	8	2	99
Scrapers	0.48	750	0.11223	0.13357	0.9865	0.50942	514.029	0.03520	0.03239	0.005	75	89	658	340	342,693	23	22	3	155
Scrapers	0.48	600	0.11687	0.13909	0.99246	0.13961	514.029	0.01377	0.01267	0.005	49	59	420	59	217,583	6	5	2	99
Graders	0.41	600	0.12909	0.15363	1.00817	0.14112	514.029	0.02005	0.01844	0.005	29	34	224	31	114,299	4	4	1	52
Surfacing Equipment	0.3	300	0.19082	0.2271	1.14369	0.72372	514.029	0.04051	0.03727	0.005	4	5	26	17	11,831	1	1	0	5
Excavators	0.38	600	0.19478	0.2318	1.09261	1.01699	514.029	0.05194	0.04778	0.005	30	36	170	158	79,882	8	7	1	36
Off-Highway Trucks	0.38	600	0.22742	0.27065	1.13458	1.04443	514.029	0.05521	0.0508	0.005	26	31	131	121	59,384	6	6	1	27
Off-Highway Trucks	0.38	600	0.21816	0.25963	1.12268	0.26497	514.029	0.03107	0.02858	0.005	25	30	130	31	59,384	4	3	1	27
																			5.8

Notes: Emission factors were derived from OFFROAD Emission Inventory. Load factors were from CalEEMod default for diesel equipment (Sheet Default HP LF).

Maximum Daily Emissions (lbs/day)

ROG	TOG	CO	NOx	CO2	PM10 E	PM2.5 E	SOx
1.0	1.1	5.9	4.3	2,851.7	0.3	0.3	0.0
0.7	0.8	3.8	3.5	1,747.3	0.2	0.2	0.0
0.6	0.7	3.9	0.5	1,873.3	0.1	0.1	0.0
0.7	0.8	4.1	4.1	1,967.5	0.2	0.2	0.0
0.2	0.3	1.9	0.3	954.3	0.0	0.0	0.0
0.3	0.4	2.7	1.4	1,427.9	0.1	0.1	0.0
0.2	0.2	1.8	0.2	906.6	0.0	0.0	0.0
0.3	0.4	2.7	1.4	1,427.9	0.1	0.1	0.0
0.2	0.3	1.8	0.2	906.6	0.0	0.0	0.0
0.3	0.4	2.7	1.4	1,427.9	0.1	0.1	0.0
0.2	0.3	1.8	0.2	906.6	0.0	0.0	0.0
0.3	0.4	2.7	1.4	1,427.9	0.1	0.1	0.0
0.2	0.2	1.8	0.2	906.6	0.0	0.0	0.0
0.1	0.1	0.9	0.1	476.2	0.0	0.0	0.0
0.0	0.0	0.1	0.1	49.3	0.0	0.0	0.0
0.1	0.2	0.7	0.7	332.8	0.0	0.0	0.0
0.1	0.1	0.5	0.5	247.4	0.0	0.0	0.0
0.1	0.1	0.5	0.1	247.4	0.0	0.0	0.0
6.9	40.3	20.9	20,085.2	1.3	1.2	0.2	

Note: Maximum Daily Operation 14 hours
working days 240

OFFROAD Emission Inventory

Model Output: OFFROAD2021 (v1.0.7) Emissions Inventory
Region Type: Air District
Region: Sacramento Metropolitan AQMD
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activity_hpy	Population	Horsepower_Hours_hhpy	Gallons per horsepower-	HP Bin
Sacramento	2026	Construction and Mining - Rubber Tired Loaders	2017	750	Diesel	1.20413E-06	1.5E-06	1.7E-06	9E-06	6.6E-06	0.00437	4.3E-07	3.9E-07	4.1E-08	0	142.084074	11.4529	0.018	2816.62	0.0504	0
Sacramento	2026	Construction and Mining - Rubber Tired Loaders	2016	600	Diesel	0.000131457	0.00016	0.00019	0.00085	0.00079	0.39437	4.1E-05	3.8E-05	3.7E-06	0	12815.0755	1839.6	2.489	254041	0.0504	25
Sacramento	2026	Construction and Mining - Rubber Tired Loaders	2019	600	Diesel	0.000115583	0.00014	0.00017	0.00087	0.00012	0.42035	1.3E-05	1.2E-05	4E-06	0	13659.242	1959.52	2.5	270775	0.0504	50
Sacramento	2026	Construction and Mining - Crawler Tractors	2014	600	Diesel	3.67806E-05	4.5E-05	5.3E-05	0.00027	0.00027	0.13062	1.2E-05	1.1E-05	1.2E-06	0	4244.65983	501.973	1.033	84144.4	0.0504	75
Sacramento	2026	Construction and Mining - Crawler Tractors	2019	600	Diesel	4.89996E-05	5.9E-05	7.1E-05	0.00045	6.3E-05	0.22856	6.4E-06	5.8E-06	2.2E-06	0	7426.97916	867.918	1.66	147229	0.0504	100
Sacramento	2026	Construction and Mining - Scrapers	2018	750	Diesel	8.60539E-06	1E-05	1.2E-05	9.2E-05	4.7E-05	0.04769	3.3E-06	3E-06	4.5E-07	0	1549.66491	103.784	0.316	30719.9	0.0504	175
Sacramento	2026	Construction and Mining - Scrapers	2019	600	Diesel	3.30494E-05	4E-05	4.8E-05	0.00034	4.8E-05	0.17589	4.7E-06	4.3E-06	1.7E-06	0	5715.43864	529.726	1.307	113301	0.0504	300
Sacramento	2026	Construction and Mining - Scrapers	2018	750	Diesel	8.60539E-06	1E-05	1.2E-05	9.2E-05	4.7E-05	0.04769	3.3E-06	3E-06	4.5E-07	0	1549.66491	103.784	0.316	30719.9	0.0504	600
Sacramento	2026	Construction and Mining - Scrapers	2018	600	Diesel	3.9705E-05	4.8E-05	5.7E-05	0.00039	5.4E-05	0.19921	7.7E-06	7.1E-06	1.9E-06	0	6473.49574	607.187	1.51	128328	0.0504	750
Sacramento	2026	Construction and Mining - Scrapers	2018	750	Diesel	8.60539E-06	1E-05	1.2E-05	9.2E-05	4.7E-05	0.04769	3.3E-06	3E-06	4.5E-07	0	1549.66491	103.784	0.316	30719.9	0.0504	
Sacramento	2026	Construction and Mining - Scrapers	2018	600	Diesel	3.9705E-05	4.8E-05	5.7E-05	0.00039	5.4E-05	0.19921	7.7E-06	7.1E-06	1.9E-06	0	6473.49574	607.187	1.51	128328	0.0504	
Sacramento	2026	Construction and Mining - Scrapers	2018	750	Diesel	8.60539E-06	1E-05	1.2E-05	9.2E-05	4.7E-05	0.04769	3.3E-06	3E-06	4.5E-07	0	1549.66491	103.784	0.316	30719.9	0.0504	
Sacramento	2026	Construction and Mining - Scrapers	2019	600	Diesel	3.30494E-05	4E-05	4.8E-05	0.00034	4.8E-05	0.17589	4.7E-06	4.3E-06	1.7E-06	0	5715.43864	529.726	1.307	113301	0.0504	
Sacramento	2026	Construction and Mining - Graders	2018	600	Diesel	1.38508E-05	1.7E-05	2E-05	0.00013	1.8E-05	0.06674	2.6E-06	2.4E-06	6.3E-07	0	2168.58091	308.393	0.71	42989.1	0.0504	
Sacramento	2026	Construction and Mining - Surfacing Equipment	2015	300	Diesel	1.11684E-06	1.4E-06	1.6E-06	8.1E-06	5.1E-06	0.00364	2.9E-07	2.6E-07	3.4E-08	0	118.290722	31.7587	0.052	2344.95	0.0504	
Sacramento	2026	Construction and Mining - Excavators	2016	600	Diesel	0.00013156	0.00016	0.00019	0.00089	0.00083	0.42011	4.2E-05	3.9E-05	4E-06	0	13651.4747	1891.23	2.793	270621	0.0504	
Sacramento	2026	Construction and Mining - Off-Highway Trucks	2016	600	Diesel	0.00011662	0.00014	0.00017	0.0007	0.00065	0.31895	3.4E-05	3.2E-05	3E-06	0	10364.2855	1240.72	1.445	205457	0.0504	
Sacramento	2026	Construction and Mining - Off-Highway Trucks	2017	600	Diesel	0.000112455	0.00014	0.00016	0.0007	0.00017	0.3206	1.9E-05	1.8E-05	3E-06	0	10418.031	1249.84	1.418	206523	0.0504	

Notes: For unavailable equipment, use a surrogate with the same horsepower and an older model year in the same equipment category

Default Horsepower and Load Factor for Construction Equipment

Sources: CalEEMod 2022 Appendix G Table 12

Equipment	Fuel	Horsepower	Load Factor
Crawler Tracto	Diesel	87	0.43
Excavators	Diesel	36	0.38
Graders	Diesel	148	0.41
Off-Highway Tr	Diesel	376	0.38
Rubber Tired L	Diesel	150	0.36
Scrapers	Diesel	423	0.48
Surfacing Equip	Diesel	399	0.30

Equip
Rubber Ti
Crawler T
Scrapers
Graders
Surfacing
Excavator
Off-Highv

Fugitive Dust Emissions

On-Road Dust Emissions

Vehicle Type	Total VMT (mi)	Workdays	Paved Road (mi)	Total Emissions (lbs) PM10	PM2.5
Worker Fleet	47,866	240	47,866	30.23	7.557

Assume default of 100% paved roads for worker trips in Sacramento Metropolitan AQMD, consistent with CalEEMod default Appendix G21 Road Characteristics at county level.

Emission Factors, traveling on paved road

PM10 EF (lbs/VMT)	
Paved Roads	Paved Roads, Corrected for Natural
6.6E-4	6.3E-4

Emission factor for travel on paved roads is estimated following AP-42, see sheet "Fugitive Dust EF"
For calculating EF from paved road, the average weight of all vehicles traveling the road is assumed to be 2.4 tons

Emission Summary	Uncontrolled		Controlled	
lb/day	PM10	PM2.5	PM10	PM2.5
Off-Road Dust Emissions	46	7	21	3
Bulldozing	21	16	10	7
Aggregate Handling	17	3	6	1
Total lb/d	**84**	**25**	**38**	**11**
tons per yr				
Off-Road Dust Emissions	6	1	3	0
Bulldozing	3	2	1	1
Aggregate Handling	2	0	1	0
Total lb/d	**10**	**3**	**5**	**1**

Off-Road Dust Emissions

	Equipment	Equipment #	Weight (tons)	Active Hours (annual)	Vehicle Speed (mph)	Onsite VMT (annual)	PM 10 EF (lb/VMT) Uncorrected (lb/VMT)	Corrected (lb/VMT)	PM emissions (lbs/yr) PM10, unmitigated	PM10, with BMP	PM2.5, with BMP	Max Daily PM emissions PM10, unmitigated	PM10, with BMP	PM2.5, with BMP
	Rubber Tire Loader (Cat 990)	1	17.5	2400	0.3	720	1.4541	1.2151	875	402	60	4	2	0
	Rubber Tire Loader (Cat 988K)	1	16	1900	0.3	570	1.3967	1.1671	665	306	46	3	1	0
	Rubber Tire Loader (Cat 988KXE)	1	16	1900	0.3	570	1.3967	1.1671	665	306	46	3	1	0
dozer	Crawler Tractors (Cat D10T2)	1	77.35	1700	0.3	510	2.8382	2.3717	1,210	556	83	5	2	0
dozer	Crawler Tractors (Cat D6)	1	25.3665	1000	0.3	300	1.7185	1.4360	431	198	30	2	1	0
	Scrapers (Cat 657E)	1	76.145	1000	0.3	300	2.8182	2.3550	706	325	49	3	1	0
	Scrapers (Cat 657E)	1	76.145	1000	0.3	300	2.8182	2.3550	706	325	49	3	1	0
	Scrapers (Cat 657E)	1	76.145	1000	0.3	300	2.8182	2.3550	706	325	49	3	1	0
	Scrapers (Cat 657E)	1	76.145	1000	0.3	300	2.8182	2.3550	706	325	49	3	1	0
	Scrapers (Cat 657E)	1	76.145	1000	0.3	300	2.8182	2.3550	706	325	49	3	1	0
	Scrapers (Cat 657E)	1	76.145	1000	0.3	300	2.8182	2.3550	706	325	49	3	1	0
	Scrapers (Cat 657E)	1	76.145	1000	0.3	300	2.8182	2.3550	706	325	49	3	1	0
	Graders (Cat 16H)	1	27.28	600	0.3	180	1.7757	1.4838	267	123	18	1	1	0
soil com	Tampers/Rammers (Cat 815F)	1	2.288	150	0.3	45	0.5821	0.4864	22	10	2	0	0	0
	Excavators (Cat 390F)	1	73.855	350	0.3	105	2.7798	2.3228	244	112	17	1	0	0
	Haul Trucks (Komatsu HM350)	1	31.5	350	2	350	1.8944	1.5830	554	255	38	2	1	0
	Haul Trucks (Komatsu HM350)	1	31.5	350	2	350	1.8944	1.5830	554	255	38	2	1	0
									11,139	5,124	2,357	46	21	3

Notes
Emission factors estimated based on AP-42 unpaved road, see sheet "Fugitive Dust EF". Assume 100% onsite VMT occurs on unpaved road — 14 hours/day max daily operation
Equipment weights are operating weights from manufacturer model specs. Vehicle speeds were engineering estimates for average speeds of onsite o — assumes 240 working day, VMT equally spread out
Onsite truck activities were assumed to b — 50% mobile, 50% standby (load/unload)
BMP watering unpaved road twice daily — 54% dust removal (Page 3-8, SMAQMD 2020)

Bulldozing — max daily

Equipment	Total Equipment Hour	PM10 EF (lb/hr)	PM10 (lbs/yr)	PM2.5 (lbs/yr)	PM10 (lbs/day)	PM2.5 (lbs/day)
Dozer	2700	0.75	2,032	1,530	11	8
Scraper	8000	0.75	6,022	4,533	11	8
		Unmitigated to	8,055	6,063	21	16
		with BMP	3,705	2,789	10	7

Aggregate Handling

Estimated Total Mass	1,800,000 tons/yr	Provided
Duration	250 days	Provided

Emission	PM10	PM2.5
EF (lbs/ton), overburden	0.0008	0.0001
EF (lbs/ton), aggregate	0.0015	0.0002
Emissions (lbs/day), overburden	6	1
Emissions (lbs/day), aggregate,	11	2
BMP	2	0
BMP	4	1

BMP: watering twice resulting in 61% reduction

PM2.5 to PM10 Mass Emission Ratio used in Calculation

Fugitive Dust Source	PM2.5/PM	Reference
Paved road	0.25	EPA. AP-42. Analysis of the Fine Fraction of Particulate Matter in Fugitive Dust, Final Report, Oct 2005.
Unpaved road	0.15	EPA. AP-42. Analysis of the Fine Fraction of Particulate Matter in Fugitive Dust, Final Report, Oct 2005.

Fugitive Dust Emission Factors

Aggregate Handling and Storage Piles

Emissions result from several distinct processes within the stockpiling cycle: 1. loading of materials through batch or drop operations, 2. equipment traffic in storage areas, 3. wind erosion of piles, 4. loadout of material through batch or drop operations

E(lb/ton)=(k)(0.0032)(U/5)^1.3/(M/2)^1.4 EPA. AP 42, Fifth Edition, Volume I, Chapter 13: Miscellaneous Sources, 13.2.4 Aggregate Handling And Storage Piles, Eqn. 1

Where:	PM10	PM2.5	Unit	Source
U= mean wind speed	6.7		mph	CalEEMod Value for Sacramento Int'l Airport (converted to mph)
k= Particle Size Multiplier:	0.35	0.053	-	AP-42 Chapter 13.2.4-3, PM10 emissions
M= moisture content (%)				AP-42 Chapter 13.2.4-3, Table 13.2.4-1
M, Overburden (as exposed ground	3.4		%	"exposed ground", mean
M, Aggregate (as limestone)	2.1		%	"various limestone products", mean
Emission Factor, Overburden	**0.0008**	**0.0001**	lbs/ton	
Emission Factor, Aggregate	**0.0015**	**0.0002**	lbs/ton	

Travel on Unpaved Roads (Heavy Duty Trucks)

E(lbs/VMT)=(k)(s/12)^a (W/3)^b EPA. AP 42, Fifth Edition, Volume I, Chapter 13: Miscellaneous Sources, 13.2.2 Unpaved Roads, Eqn. 1

Where:	PM10	Unit	Source
k= Particle Size Multiplier:	1.5	dimensionless	AP-42 Chapter 13.2.2-2, PM10 emissions; industrial roads
s= Silt Content (%)	4.8	constant	AP-42 Chapter 13.2.2-1, sand and gravel processing
a=	0.9	constant	AP-42 Chapter 13.2.2-2, industrial roads
b=	0.45	constant	AP-42 Chapter 13.2.2-2, industrial roads
W=Vehicle Weight	10.0	tons	Vehicle Weight
PM10 Emission factor	**1.130**	**lbs/VMT**	For above weight truck

Correction for Natural Precipitation

E(ext)=E[(365-P)/365] EPA. AP 42, Fifth Edition, Volume I, Chapter 13: Miscellaneous Sources, 13.2.2 Unpaved Roads, Eqn. 2

Where:		Unit	Source
P=#days/yr with >=0.01 inch precipitation durir	58	days	Western Regional Climate Center SACRAMENTO EXECUTIVE AP, CALIFORNIA - Climate Summa
Corrected EF PM10	**0.951**	lbs/VMT	

Travel on Paved Roads

E(lbs/VMT)=(k)(sL)^.91 (W)^1.02 EPA. AP 42, Fifth Edition, Volume I, Chapter 13: Miscellaneous Sources, 13.2.1 Paved Road, Eqn. 1

Where:	PM10	Unit	Source
k= Particle Size Multiplier:	0.0022	lb/VMT	AP-42 Chapter 13.2.1, Table 13.2.1-1, PM10 emissions
sL= road surface silt loading	0.1	g/m^2	CalEEMod default
	7.4	g/m^2	AP-42 Chapter 13.2.1, Table 13.2.1-3, Municipal solid waste landfill
PM10 Emission factor	0.00066	lbs/VMT	Public roads
	0.03337	lbs/VMT	Industrial roads

Correction for Natural Precipitation

E(ext)=E[(1-P/4N)] EPA. AP 42, Fifth Edition, Volume I, Chapter 13: Miscellaneous Sources, 13.2.1 Paved Road, Eqn. 2

Where:		Unit	Source
Eext = annual or other long-term average emission factor		dimensionless	
P=#days/yr with >=0.01 inch precipitation	58	days	Western Regional Climate Center SACRAMENTO EXECUTIVE AP, CALIFORNIA - Climate Summa
N=# days in averaging period	365	days	
Corrected EF PM10	**0.00063**	lbs/VMT	Public roads
	0.03204	lbs/VMT	Industrial roads

Bulldozing

Equation is applied to graders and dozers to estimate fugitive dust from grading activity

Emissions factors for P10 from bulldozing are scaled from those of PM15

E(lbs/hr)=1.0*s^1.5/M^1.4 EPA. AP 42, Fifth Edition, Volume I Chapter 11: Mineral Products Industry, 11.9 Mineral Products Industry, Table 11.9-1 Bulldozing

E(PM10)=E(PM15)*F

Where:		PM15	Unit	Source
M=	material moisture content	7.9	%	AP-42 Table 11.9-3,Overburden
s=	material silt content	6.9	%	AP-42 Table 11.9-3,Overburden
F=	scaling factor	0.75	constant	AP-42 Table 11.9-1, PM10
	PM15	1.00	lbs/hr	
	PM10	**0.75**	lbs/hr	

Truck loading

Emission factor for PM15

E(PM10) = 0.75*0.119/M^0.9 EPA. AP 42, Fifth Edition, Volume I Chapter 11: Mineral Products Industry, 11.9 Mineral Products Industry, Table 11.9-1 Truck loading

Where:			Unit	Source
M=	material moisture content	7.9	%	AP-42 Table 11.9-3,Overburden
	PM10	**0.01389133**	lbs/ton	

Mobile Trip Exhaust Emissions

Phase	Vehicle	Modeled Vehicle Type	One-way Trips per day	Total Work Days	Total One-way Trips	One-way Trip Length (mi)	Total VMT	Number of Vehicles	Fuel	ROG	NOx	PM10 E	PM2.5 E	PM10 D	PM2.5 D	SOx	CO	CO2	CH4	N2O	CO2e
										lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	MT
Entire Operation	Commute workers	Worker Fleet	2	240	4,320	11.08	47,866	9	Misc.	36.7	92.2	12.9	12.4	1.9	0.6	0.4	164.3	######	1.7	6.1	19

Notes:

Assume commute trips are 2 one-way trips per day.

The rest of the trip lengths are default values for Sacramento Metropolitan AQMD (CalEEMod Appendix G15)

11.08 miles/trip for residential home-work trips

PM emissions: E= engine exhaust emission; D=Dust of vehicle break wear and tire wear.

The calculation is based on the following emission rates:

On-Road Emission Rates

Fleet Type	Fuel Type	VMT-Based Emission Rate (g/mi)										Trip-Based Emission Rate (g/trip)										Idle/Diurnal-Based Emission Rate (g/vehicle/day)									
		ROG	NOx	PM10_E	PM2.5_E	PM10_D	PM2.5_D	SOx	CO	CO2	CH4	N2O	ROG	NOx	PM10_E	PM2.5_E	PM10_D	PM2.5_D	SOx	CO	CO2	CH4	N2O	ROG	NOx	PM10_E	PM2.5_E	PM10_D	PM2.5_D	SOx	CO	CO2	CH4	N2O
Worker Fleet	EMFAC	1.5E-1	8.4E-1	1.2E-1	1.2E-1	1.8E-2	5.5E-3	3.5E-3	1.2E+0	3.7E+2	7.9E-3	5.5E-2	9.7E-1	3.4E-1	2.5E-3	2.3E-3	0.0E+0	0.0E+0	8.0E-4	4.2E+0	8.1E+1	8.8E-2	3.6E-2	2.4E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	3.6E-3	0.0E+0	0.0E+0	0.0E+0

Note:

Emission type -specific emission rates are calculated using EMFAC 2021 (sheet EMFAC EF).

Emission Factors based on VMT, Trip, and Idle/Diurnal

Summed columns in EMFAC		AQ	M	X	Q	AB,A	U,V	BK	BG	AE	AI	AM	AS,AV,	O	Z	S	BM	BI	AG	AK	AO	AR,A	N	Y	R	BL	BH	AF	AJ	AN
		VMT-based (g/mile)											Trip-based (g/trip)										Idle/diurnal-based (g/vehicle/day)										
Vehicle Category	Fuel	ROG	NOx	PM10	PM2.	PM10	PM2.	SOx	CO	CO2	CH4	N2O	ROG	NOx	PM10	PM2.	PM10	PM2.	SOx	CO	CO2	CH4	N2O	ROG	NOx	PM10	PM2.	PM10	PM2.	SOx	CO	CO2	CH4	N2O
LDA	Gasoline	0.008221	0.04	0	0	0.02	0	0	0.76	277	0	0	0.668	0.25	0	0	0	0	0	3.09	68.07	0.07	0.03	1.65	0	0	0	0	0	0	0	0	0	0
LDA	Diesel	0.024128	0.19	0.01	0.01	0.02	0	0	0.35	232	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Electricity	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	Plug-in Hybrid	0.001486	0	0	0	0.01	0	0	0.23	140	0	0	0.2518	0.11	0	0	0	0	0	1.31	63.25	0.04	0.02	0.49	0	0	0	0	0	0	0	0	0	0
LDT1	Gasoline	0.023979	0.11	0	0	0.02	0.01	0	1.36	332	0.01	0.01	1.2594	0.39	0	0	0	0	0	5.22	85.58	0.1	0.04	3.11	0	0	0	0	0	0	0	0	0	0
LDT1	Diesel	0.287739	1.56	0.24	0.23	0.02	0.01	0	1.55	426	0.01	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Electricity	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT1	Plug-in Hybrid	0.001334	0	0	0	0.01	0	0	0.21	126	0	0	0.2149	0.11	0	0	0	0	0	1.31	66.8	0.04	0.02	0.29	0	0	0	0	0	0	0	0	0	0
LDT2	Gasoline	0.009565	0.06	0	0	0.02	0.01	0	0.83	340	0	0.01	0.6916	0.32	0	0	0	0	0	3.41	84.49	0.08	0.04	1.61	0	0	0	0	0	0	0	0	0	0
LDT2	Diesel	0.015189	0.04	0	0	0.02	0.01	0	0.15	300	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Electricity	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDT2	Plug-in Hybrid	0.001404	0	0	0	0.01	0	0	0.22	133	0	0	0.2208	0.11	0	0	0	0	0	1.31	73.24	0.04	0.02	0.33	0	0	0	0	0	0	0	0	0	0
Worker Fleet	EMFAC defau	0.153699	0.84	0.12	0.12	0.02	0.01	0	1.17	367	0.01	0.05	0.9696	0.34	0	0	0	0	0	4.23	80.93	0.09	0.04	2.37	0	0	0	0	0	0	0	0	0	0

Notes:

Assume Worker Fleet = 25/50/25 percent mix of light duty autos, light duty truck class 1, and light duty truck class 2

EMFAC Emission Types Used to Estimate Onroad Emission Rates

Pollutant group	VMT-based (g/mile)	Trip-based (g/trip)	Idle/Diurnal-based
TOG, ROG	RUNEX	STREX,	IDLEX, DIURN
Gases	RUNEX	STREX	IDLEX
PM - Exhaust	RUNEX	STREX	IDLEX
PM - Dust	PMTW, PMBW		

Acronyms:

RUNEX	Running exhaust	g/mile
PMBW	PM brake wear	g/mile
PMTW	PM tire wear	g/mile
STREX	Start exhaust	g/trip
HOTSOAK	Hot Soak evaporative	g/trip
RUNLOSS	Running Loss evaporative	g/trip
IDLEX	Idle exhaust	g/vehicle/day
DIURN	Diurnal Loss evaporative	g/vehicle/day

EMFAC 2021 (On-Road) Emission Rates Output

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Air District
Region: Sacramento Metropolitan AQMD
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

| Region | Calendar Year | Vehicle Category | Model Year | Speed | Fuel | Population | Total VMT | CVMT | EVMT | Trips | Energy Consumption | NOx_RUNEX | NOx_IDLEX | NOx_STREX | NOx_TOTEX | PM2.5_RUNEX | PM2.5_IDLEX | PM2.5_STREX | PM2.5_TOTEX | PM2.5_TWEX | PM2.5_BWEX | PM2.5_TALEX | PM10_RUNEX | PM10_IDLEX | PM10_STREX | PM10_TOTEX | PM10_PMTW | PM10_PMBW | PM10_TOTAL | PM10_TOTEX | CO2_RUNEX | CO2_IDLEX | CO2_STREX | CO2_TOTEX | CH4_RUNEX | CH4_IDLEX | CH4_STREX | CH4_TOTEX | N2O_RUNEX | N2O_IDLEX | N2O_STREX | N2O_TOTEX | ROG_RUNEX | ROG_IDLEX | ROG_STREX | ROG_TOTEX | ROG_DIURN | ROG_HOTSOAK | ROG_RUNLOSS | TOG_TOTALEX | TOG_RUNEX | TOG_IDLEX | TOG_STREX | TOG_TOTEX | TOG_DIURN | TOG_HOTSOAK | TOG_RUNLOSS | TOG_TOTALEX | CO_RUNEX | CO_IDLEX | CO_STREX | CO_TOTEX | SOx_RUNEX | SOx_IDLEX | SOx_STREX | SOx_TOTEX | NH3_RUNEX | Fuel Consumption |
|---|---|---

Appendix B

Toxic Air Contaminant Emissions and Risk Calculations

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DPM Cancer Risk, Chronic HI, and PM10 Concentration, Unmitigated

Exposure begins at the trimester, coinciding with the start of each phase.

Project Phase Year in Age Bin

Phase 1 Aspen VIII	Year 1	Year 2	Year 3	Year 4	
3rd tri	0.25				0.25
0-2	0.75	1	0.25		2.0
2-16			0.75	1	1.75

Phase 2 Aspen IX	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	
3rd tri	0.25													0.25
0-2	0.75	1	0.25											2
2-16			0.75	1	1	1	1	1	1	1	1	1	1	10.75

Phase 3 Reclamation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	
3rd tri	0.2353																	0.235
0-2		0.2353	0.2353	0.2353	0.2353	0.2353	0.2353	0.2353	0.2353	0.1176								2
2-16										0.1176	0.2353	0.2353	0.2353	0.2353	0.2353	0.2353	0.2353	1.765

Cancer Risk = CONC * CPF * DBR * A * EF * CF * ASF * [ED/AT] * FAH * CCF

MEIR Risks and Location	Risk Va	X	Y
Cancer (1/million)	7.0916	6E+05	4E+06
HI	0.017	6E+05	4E+06

Aspen VI	Aspen IV	Reclam	Total
2.0	5.9	2.0	7.0916

DPM REL (ug/m3): 5

Number	X	Y	Scaled DPM Concentration (ug/m3)																	Cancer Risk (1/million)									Cancer Subtotal			Cancer	Max	Chronic HI
																				Phase 1 Aspen VIII			Phase 2 Aspen IX			Reclamation			Phase 1	Phase 2	Reclamatio	Total (1/million)	PM10 E Conc	
			8Y01	8Y02	8Y03	8Y04	9Y01	9Y02	9Y03	9Y04	9Y05	9Y06	9Y07	9Y08	9Y09	9Y10	9Y11	9Y12	9Y13	3rd tri	0-2	2-16	3rd tri	0-2	2-16	3rd tri	0-2	2-16						
1	645773	4263870	0.0038	0.004	0.0042	0.0031	0.0015	0.0014	0.0014	0.0015	0.0016	0.0016	0.0016	0.0016	0.0017	0.0018	0.0021	0.0022	0.0024	0.044	0.943	0.119	0.017	0.341	0.362	0.042	0.545	0.063	1.106	0.721	0.65	2.4136	0.004	8E-04
2	645831	4263870	0.0042	0.0044	0.0044	0.0032	0.0016	0.0015	0.0015	0.0016	0.0017	0.0017	0.0017	0.0017	0.0018	0.002	0.0022	0.0023	0.0026	0.048	1.022	0.123	0.019	0.371	0.387	0.045	0.581	0.067	1.193	0.776	0.694	2.5958	0.004	9E-04
3	645549	4263919	0.0029	0.0031	0.0033	0.0027	0.0011	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0014	0.0015	0.0016	0.0018	0.033	0.724	0.098	0.013	0.256	0.271	0.031	0.426	0.047	0.855	0.54	0.505	1.8524	0.003	7E-04
4	645546	4263871	0.0028	0.003	0.0031	0.0025	0.0011	0.0011	0.0011	0.0012	0.0012	0.0013	0.0013	0.0012	0.0013	0.0014	0.0016	0.0016	0.0018	0.032	0.688	0.093	0.013	0.262	0.279	0.03	0.418	0.048	0.812	0.553	0.496	1.8138	0.003	6E-04
5	645701	4265304	0.0037	0.0048	0.0063	0.0087	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.085	0.254	0.009	0.184	0.149	0.04	0.669	0.024	1.381	0.342	0.733	2.4329	0.009	0.002
6	645711	4265304	0.0038	0.0049	0.0065	0.0091	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.114	0.264	0.009	0.185	0.15	0.041	0.689	0.024	1.422	0.344	0.755	2.4969	0.009	0.002
7	645721	4265304	0.0039	0.0051	0.0067	0.0095	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.145	0.274	0.009	0.186	0.151	0.042	0.711	0.025	1.464	0.346	0.778	2.5635	0.009	0.002
8	645731	4265304	0.004	0.0052	0.0069	0.0099	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.177	0.285	0.009	0.187	0.152	0.043	0.733	0.025	1.508	0.349	0.801	2.6330	0.01	0.002
9	645741	4265304	0.0041	0.0054	0.0072	0.0104	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.21	0.297	0.009	0.188	0.153	0.045	0.756	0.025	1.554	0.351	0.826	2.7052	0.01	0.002
10	645751	4265304	0.0042	0.0055	0.0074	0.0108	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.049	1.243	0.309	0.009	0.189	0.154	0.046	0.781	0.025	1.601	0.353	0.852	2.7803	0.011	0.002
11	645761	4265304	0.0043	0.0057	0.0076	0.0114	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.05	1.278	0.322	0.009	0.19	0.155	0.047	0.807	0.025	1.65	0.355	0.879	2.8584	0.011	0.002
12	645771	4265304	0.0044	0.0058	0.0078	0.0119	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.051	1.315	0.335	0.009	0.191	0.156	0.048	0.833	0.025	1.701	0.357	0.907	2.9395	0.012	0.002
13	645781	4265304	0.0045	0.006	0.0081	0.0125	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.052	1.352	0.35	0.009	0.192	0.157	0.049	0.862	0.026	1.754	0.359	0.937	3.0242	0.012	0.002
14	645791	4265304	0.0047	0.0062	0.0083	0.0131	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.054	1.391	0.365	0.01	0.193	0.158	0.051	0.891	0.026	1.809	0.361	0.968	3.1124	0.013	0.003
15	645801	4265304	0.0048	0.0064	0.0086	0.0137	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.055	1.43	0.381	0.01	0.195	0.159	0.052	0.922	0.026	1.867	0.363	1	3.2040	0.014	0.003
16	645811	4265304	0.0049	0.0066	0.0089	0.0144	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.057	1.472	0.397	0.01	0.196	0.16	0.053	0.955	0.026	1.926	0.365	1.034	3.2991	0.014	0.003
17	645821	4265304	0.005	0.0067	0.0091	0.0151	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.058	1.514	0.415	0.01	0.197	0.161	0.055	0.988	0.026	1.987	0.367	1.069	3.3976	0.015	0.003
18	645701	4265314	0.0037	0.0048	0.0063	0.0086	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.075	0.251	0.009	0.183	0.149	0.04	0.662	0.024	1.368	0.341	0.726	2.4105	0.009	0.002
19	645711	4265314	0.0038	0.0049	0.0065	0.009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.104	0.26	0.009	0.184	0.15	0.041	0.682	0.024	1.407	0.343	0.747	2.4730	0.009	0.002
20	645721	4265314	0.0039	0.005	0.0066	0.0093	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.134	0.271	0.009	0.185	0.151	0.042	0.702	0.025	1.449	0.345	0.769	2.5382	0.009	0.002
21	645731	4265314	0.004	0.0052	0.0068	0.0098	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.165	0.281	0.009	0.186	0.152	0.043	0.724	0.025	1.492	0.347	0.792	2.6059	0.01	0.002
22	645741	4265314	0.0041	0.0053	0.0071	0.0102	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.197	0.292	0.009	0.187	0.153	0.044	0.747	0.025	1.536	0.349	0.816	2.6764	0.01	0.002
23	645751	4265314	0.0042	0.0055	0.0073	0.0107	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.048	1.23	0.304	0.009	0.188	0.154	0.045	0.771	0.025	1.582	0.351	0.841	2.7495	0.011	0.002
24	645761	4265314	0.0043	0.0056	0.0075	0.0112	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.049	1.264	0.317	0.009	0.189	0.155	0.046	0.796	0.025	1.63	0.353	0.867	2.8254	0.011	0.002
25	645771	4265314	0.0044	0.0058	0.0077	0.0117	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.051	1.299	0.33	0.009	0.19	0.156	0.048	0.822	0.025	1.68	0.355	0.895	2.9041	0.012	0.002
26	645781	4265314	0.0045	0.0059	0.008	0.0122	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.052	1.336	0.344	0.009	0.192	0.156	0.049	0.849	0.025	1.731	0.357	0.923	2.9863	0.012	0.002
27	645791	4265314	0.0046	0.0061	0.0082	0.0128	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.053	1.373	0.358	0.009	0.193	0.157	0.05	0.878	0.026	1.785	0.359	0.953	3.0716	0.013	0.003
28	645801	4265314	0.0047	0.0063	0.0085	0.0134	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.055	1.412	0.373	0.01	0.194	0.158	0.051	0.907	0.026	1.84	0.362	0.984	3.1602	0.013	0.003
29	645811	4265314	0.0048	0.0065	0.0087	0.0141	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.056	1.452	0.389	0.01	0.195	0.159	0.053	0.938	0.026	1.897	0.364	1.017	3.2519	0.014	0.003
30	645821	4265314	0.005	0.0067	0.009	0.0148	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.058	1.493	0.406	0.01	0.196	0.16	0.054	0.971	0.026	1.957	0.366	1.051	3.3469	0.015	0.003
31	645701	4265324	0.0037	0.0047	0.0062	0.0085	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.042	1.065	0.247	0.009	0.182	0.148	0.04	0.655	0.024	1.354	0.34	0.719	2.3883	0.008	0.002
32	645711	4265324	0.0037	0.0048	0.0064	0.0088	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.093	0.257	0.009	0.183	0.149	0.041	0.674	0.024	1.393	0.342	0.739	2.4495	0.009	0.002
33	645721	4265324	0.0038	0.005	0.0066	0.0092	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.122	0.267	0.009	0.184	0.15	0.042	0.694	0.024	1.433	0.344	0.761	2.5131	0.009	0.002
34	645731	4265324	0.0039	0.0051	0.0067	0.0096	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.153	0.277	0.009	0.185	0.151	0.043	0.716	0.025	1.475	0.346	0.783	2.5793	0.01	0.002
35	645741	4265324	0.004	0.0053	0.007	0.01	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.184	0.288	0.009	0.186	0.152	0.044	0.738	0.025	1.519	0.348	0.806	2.6479	0.01	0.002
36	645751	4265324	0.0041	0.0054	0.0072	0.0105	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.048	1.216	0.299	0.009	0.187	0.153	0.045	0.761	0.025	1.564	0.35	0.831	2.7190	0.01	0.002
37	645761	4265324	0.0042	0.0055	0.0074	0.011	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.049	1.25	0.311	0.009	0.188	0.154	0.046	0.785	0.025	1.61	0.352	0.856	2.7928	0.011	0.002
38	645771	4265324	0.0043	0.0057	0.0076	0.0115	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.05	1.284	0.324	0.009	0.19	0.155	0.047	0.81	0.025	1.658	0.354	0.882	2.8693	0.011	0.002
39	645781	4265324	0.0044	0.0059	0.0078	0.012	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.051	1.32	0.337	0.009	0.191	0.156	0.048	0.836	0.025	1.708	0.356	0.91	2.9489	0.012	0.002
40	645791	4265324	0.0046	0.006	0.0081	0.0126	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.053	1.356	0.351	0.009	0.192	0.157	0.05	0.864	0.025	1.76	0.358	0.939	3.0315	0.013	0.003
41	645801	4265324	0.0047	0.0062	0.0083	0.0132	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.054	1.394	0.366	0.009	0.193	0.158	0.051	0.893	0.026	1.814	0.36	0.969	3.1171	0.013	0.003
42	645811	4265324	0.0048	0.0064	0.0086	0.0138	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.055	1.433	0.381	0.01	0.194	0.159	0.052	0.922	0.026	1.869	0.362	1	3.2057	0.014	0.003
43	645821	4265324	0.0049	0.0066	0.0088	0.0144	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.057	1.473	0.397	0.01	0.195	0.16	0.054	0.953	0.026	1.926	0.364	1.033	3.2972	0.014	0.003

44	645701	4265334	0.0036	0.0047	0.0061	0.0084	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.042	1.055	0.244	0.009	0.181	0.148	0.039	0.648	0.024	1.341	0.338	0.711	2.3664	0.008	0.002
45	645711	4265334	0.0037	0.0048	0.0063	0.0087	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.083	0.253	0.009	0.182	0.149	0.04	0.667	0.024	1.379	0.34	0.731	2.4262	0.009	0.002
46	645721	4265334	0.0038	0.0049	0.0065	0.0091	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.111	0.263	0.009	0.183	0.15	0.041	0.686	0.024	1.418	0.342	0.752	2.4884	0.009	0.002
47	645731	4265334	0.0039	0.0051	0.0067	0.0095	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.141	0.273	0.009	0.184	0.151	0.042	0.707	0.025	1.459	0.344	0.774	2.5529	0.009	0.002
48	645741	4265334	0.004	0.0052	0.0069	0.0099	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.172	0.284	0.009	0.186	0.152	0.043	0.729	0.025	1.502	0.346	0.797	2.6197	0.01	0.002
49	645751	4265334	0.0041	0.0053	0.0071	0.0103	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.203	0.295	0.009	0.187	0.152	0.045	0.751	0.025	1.545	0.348	0.82	2.6890	0.01	0.002
50	645761	4265334	0.0042	0.0055	0.0073	0.0108	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.049	1.236	0.306	0.009	0.188	0.153	0.046	0.774	0.025	1.591	0.35	0.845	2.7606	0.011	0.002
51	645771	4265334	0.0043	0.0056	0.0075	0.0113	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.05	1.269	0.318	0.009	0.189	0.154	0.047	0.799	0.025	1.637	0.352	0.87	2.8349	0.011	0.002
52	645781	4265334	0.0044	0.0058	0.0077	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.051	1.304	0.331	0.009	0.19	0.155	0.048	0.824	0.025	1.686	0.354	0.897	2.9120	0.012	0.002
53	645791	4265334	0.0045	0.006	0.0079	0.0123	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.052	1.339	0.345	0.009	0.191	0.156	0.049	0.85	0.025	1.736	0.356	0.925	2.9920	0.012	0.002
54	645801	4265334	0.0046	0.0061	0.0082	0.0129	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.054	1.376	0.359	0.009	0.192	0.157	0.05	0.878	0.026	1.788	0.358	0.954	3.0748	0.013	0.003
55	645811	4265334	0.0047	0.0063	0.0084	0.0135	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.055	1.414	0.373	0.009	0.193	0.158	0.052	0.907	0.026	1.842	0.36	0.984	3.1603	0.013	0.003
56	645821	4265334	0.0049	0.0065	0.0086	0.0141	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.056	1.452	0.388	0.01	0.194	0.159	0.053	0.936	0.026	1.897	0.362	1.015	3.2485	0.014	0.003
57	645701	4265344	0.0036	0.0046	0.006	0.0083	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.042	1.045	0.241	0.009	0.181	0.147	0.039	0.641	0.024	1.328	0.337	0.704	2.3447	0.008	0.002
58	645711	4265344	0.0037	0.0047	0.0062	0.0086	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.072	0.25	0.009	0.182	0.148	0.04	0.659	0.024	1.365	0.339	0.724	2.4032	0.009	0.002
59	645721	4265344	0.0038	0.0049	0.0064	0.009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.1	0.259	0.009	0.183	0.149	0.041	0.679	0.024	1.403	0.341	0.744	2.4639	0.009	0.002
60	645731	4265344	0.0039	0.005	0.0066	0.0093	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.129	0.269	0.009	0.184	0.15	0.042	0.699	0.024	1.443	0.343	0.765	2.5268	0.009	0.002
61	645741	4265344	0.004	0.0051	0.0068	0.0097	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.159	0.279	0.009	0.185	0.151	0.043	0.72	0.025	1.485	0.345	0.787	2.5919	0.01	0.002
62	645751	4265344	0.0041	0.0053	0.0069	0.0102	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.19	0.29	0.009	0.186	0.152	0.044	0.741	0.025	1.527	0.347	0.81	2.6592	0.01	0.002
63	645761	4265344	0.0042	0.0054	0.0071	0.0106	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.048	1.222	0.301	0.009	0.187	0.153	0.045	0.764	0.025	1.571	0.349	0.834	2.7289	0.011	0.002
64	645771	4265344	0.0043	0.0056	0.0074	0.0111	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.049	1.254	0.313	0.009	0.188	0.154	0.046	0.787	0.025	1.617	0.351	0.859	2.8009	0.011	0.002
65	645781	4265344	0.0044	0.0057	0.0076	0.0116	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.05	1.288	0.325	0.009	0.189	0.155	0.048	0.812	0.025	1.664	0.353	0.884	2.8757	0.012	0.002
66	645791	4265344	0.0045	0.0059	0.0078	0.0121	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.052	1.323	0.338	0.009	0.19	0.156	0.049	0.837	0.025	1.712	0.355	0.911	2.9531	0.012	0.002
67	645801	4265344	0.0046	0.006	0.008	0.0126	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.053	1.358	0.351	0.009	0.191	0.156	0.05	0.864	0.025	1.763	0.357	0.939	3.0331	0.013	0.003
68	645811	4265344	0.0047	0.0062	0.0083	0.0132	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.054	1.395	0.365	0.009	0.192	0.157	0.051	0.891	0.026	1.815	0.359	0.968	3.1156	0.013	0.003
69	645821	4265344	0.0048	0.0064	0.0085	0.0138	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.056	1.432	0.38	0.01	0.193	0.158	0.052	0.92	0.026	1.868	0.361	0.998	3.2007	0.014	0.003
70	645701	4265354	0.0036	0.0046	0.0059	0.0082	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.041	1.035	0.238	0.009	0.18	0.147	0.039	0.634	0.024	1.315	0.335	0.697	2.3232	0.008	0.002
71	645711	4265354	0.0037	0.0047	0.0061	0.0085	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.042	1.062	0.247	0.009	0.181	0.148	0.04	0.652	0.024	1.351	0.337	0.716	2.3804	0.008	0.002
72	645721	4265354	0.0037	0.0048	0.0063	0.0088	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.089	0.256	0.009	0.182	0.149	0.041	0.671	0.024	1.389	0.339	0.736	2.4396	0.009	0.002
73	645731	4265354	0.0038	0.005	0.0065	0.0092	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.118	0.265	0.009	0.183	0.149	0.042	0.69	0.024	1.427	0.341	0.757	2.5009	0.009	0.002
74	645741	4265354	0.0039	0.0051	0.0067	0.0096	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.147	0.275	0.009	0.184	0.15	0.043	0.711	0.024	1.468	0.343	0.778	2.5643	0.01	0.002
75	645751	4265354	0.004	0.0052	0.0068	0.01	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.177	0.286	0.009	0.185	0.151	0.044	0.732	0.025	1.509	0.345	0.8	2.6298	0.01	0.002
76	645761	4265354	0.0041	0.0054	0.007	0.0104	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.048	1.208	0.296	0.009	0.186	0.152	0.045	0.754	0.025	1.552	0.347	0.823	2.6975	0.01	0.002
77	645771	4265354	0.0042	0.0055	0.0072	0.0109	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.049	1.24	0.308	0.009	0.187	0.153	0.046	0.776	0.025	1.596	0.349	0.847	2.7674	0.011	0.002
78	645781	4265354	0.0043	0.0057	0.0075	0.0113	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.05	1.272	0.319	0.009	0.188	0.154	0.047	0.8	0.025	1.642	0.351	0.872	2.8398	0.011	0.002
79	645791	4265354	0.0044	0.0058	0.0077	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.051	1.306	0.332	0.009	0.189	0.155	0.048	0.824	0.025	1.689	0.353	0.898	2.9148	0.012	0.002
80	645801	4265354	0.0045	0.006	0.0079	0.0123	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.052	1.341	0.345	0.009	0.19	0.156	0.049	0.85	0.025	1.738	0.355	0.925	2.9921	0.012	0.002
81	645811	4265354	0.0046	0.0061	0.0081	0.0129	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.054	1.376	0.358	0.009	0.191	0.157	0.051	0.876	0.025	1.788	0.357	0.952	3.0718	0.013	0.003
82	645821	4265354	0.0048	0.0063	0.0083	0.0134	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.055	1.413	0.372	0.009	0.192	0.158	0.052	0.903	0.026	1.839	0.359	0.981	3.1538	0.013	0.003
83	645701	4265364	0.0036	0.0045	0.0059	0.0081	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.041	1.025	0.235	0.009	0.179	0.146	0.039	0.628	0.024	1.302	0.334	0.69	2.3018	0.008	0.002
84	645711	4265364	0.0036	0.0047	0.006	0.0084	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.042	1.051	0.244	0.009	0.18	0.147	0.04	0.645	0.024	1.337	0.336	0.709	2.3577	0.008	0.002
85	645721	4265364	0.0037	0.0048	0.0062	0.0087	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.078	0.252	0.009	0.181	0.148	0.04	0.663	0.024	1.374	0.338	0.728	2.4155	0.009	0.002
86	645731	4265364	0.0038	0.0049	0.0064	0.0091	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.106	0.262	0.009	0.182	0.149	0.041	0.682	0.024	1.412	0.34	0.748	2.4753	0.009	0.002
87	645741	4265364	0.0039	0.005	0.0066	0.0094	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.135	0.271	0.009	0.183	0.15	0.042	0.702	0.024	1.451	0.342	0.769	2.5370	0.009	0.002
88	645751	4265364	0.004	0.0052	0.0067	0.0098	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.164	0.281	0.009	0.184	0.151	0.043	0.722	0.025	1.491	0.344	0.79	2.6008	0.01	0.002
89	645761	4265364	0.0041	0.0053	0.0069	0.0102	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.194	0.292	0.009	0.185	0.152	0.044	0.744	0.025	1.533	0.346	0.813	2.6666	0.01	0.002
90	645771	4265364	0.0042	0.0054	0.0071	0.0107	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.048	1.225	0.302	0.009	0.186	0.153	0.046	0.765	0.025	1.576	0.348	0.836	2.7345	0.011	0.002
91	645781	4265364	0.0043	0.0056	0.0073	0.0111	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.05	1.257	0.314	0.009	0.187	0.153	0.047	0.788	0.025	1.62	0.35	0.86	2.8048	0.011	0.002
92	645791	4265364	0.0044	0.0057	0.0075	0.0116	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.051	1.29	0.326	0.009	0.188	0.154	0.048	0.812	0.025	1.666	0.352	0.885	2.8772	0.012	0.002
93	645801	4265364	0.0045	0.0059	0.0077	0.0121	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.052	1.323	0.338	0.009	0.189	0.155	0.049	0.836	0.025	1.713	0.354	0.91	2.9519	0.012	0.002
94	645811	4265364	0.0046	0.006	0.008	0.0126	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.053	1.358	0.35	0.009	0.19	0.156	0.05	0.862	0.025	1.762	0.356	0.937	3.0287	0.013	0.003
95	645821	4265364	0.0047	0.0062	0.0082	0.0131	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.054	1.393	0.364	0.009	0.191	0.157	0.051	0.888	0.026	1.811	0.358	0.964	3.1078	0.013	0.003
96	645701	4265374	0.0035	0.0045	0.0058	0.008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.041	1.016	0.232	0.009	0.178	0.146	0.038	0.621	0.024	1.289	0.333	0.683	2.2806	0.008	0.002
97	645711	4265374	0.0036	0.0046	0.006	0.0083	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.042	1.041	0.24	0.009	0.179	0.147	0.039	0.638	0.024	1.323	0.334	0.701	2.3351	0.008	0.002
98	645721	4265374	0.0037	0.0047	0.0061	0.0086	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.067	0.249	0.009	0.18	0.147	0.04	0.656	0.024	1.359	0.336	0.72	2.3916	0.009	0.002
99	645731	4265374	0.0038	0.0049	0.0063	0.0089	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.095	0.258	0.009	0.181	0.148	0.041	0.674	0.024	1.396	0.338	0.74	2.4499	0.009	0.002
100	645741	4265374	0.0039	0.005	0.0065	0.0093	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.123	0.267	0.009	0.182	0.149	0.042	0.693	0.024	1.434	0.34	0.76	2.5100	0.009	0.002
101	645751	4265374	0.004	0.0051	0.0066	0.0097	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.151	0.277	0.009	0.183	0.15	0.043	0.713	0.024	1.474	0.342	0.781	2.5720	0.01	0.002
102	645761	4265374	0.004	0.0052	0.0068	0.0101	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.181	0.287	0.009	0.184	0.151	0.044	0.734	0.025	1.514	0.344	0.802	2.6360	0.01	0.002
103	645771	4265374	0.0041	0.0054	0.007	0.0105	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.048	1.211	0.297	0.009	0.185	0.152	0.045	0.755	0.025	1.556	0.346	0.825	2.7021	0.01	0.002
104	645781	4265374	0.0042	0.0055	0.0072	0.0109	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.049	1.242	0.308	0.009	0.186	0.153	0.046	0.777	0.025	1.599	0.348	0.848	2.7701	0.011	0.002
105	645791	4265374	0.0043	0.0057	0.0074	0.0114	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.05	1.274	0.32	0.009	0.187	0.154	0.047	0.8	0.025	1.643	0.35	0.872	2.8402	0.011	0.002
106	645801	4265374	0.0044	0.0058	0.0076	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.051	1.306	0.331	0.009	0.188	0.155	0.048	0.823	0.025	1.689	0.352	0.897	2.9122	0.012	0.002
107	645811	4265374	0.0046	0.006	0.0078	0.0123	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.053	1.34	0.343	0.009	0.189	0.156	0.05	0.847	0.025	1.736	0.354	0.922	2.9864	0.012	0.002

108	645821	4265374	0.0047	0.0061	0.008	0.0128	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.054	1.374	0.356	0.009	0.19	0.156	0.051	0.872	0.025	1.784	0.356	0.948	3.0627	0.013	0.003
109	645731	4265384	0.0037	0.0048	0.0062	0.0088	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.043	1.083	0.254	0.009	0.18	0.148	0.041	0.666	0.024	1.381	0.337	0.731	2.4247	0.009	0.002
110	645741	4265384	0.0038	0.0049	0.0064	0.0092	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.044	1.111	0.263	0.009	0.181	0.149	0.042	0.685	0.024	1.418	0.339	0.751	2.4832	0.009	0.002
111	645751	4265384	0.0039	0.005	0.0066	0.0095	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.045	1.138	0.272	0.009	0.182	0.15	0.043	0.704	0.024	1.456	0.341	0.771	2.5435	0.01	0.002
112	645761	4265384	0.004	0.0052	0.0067	0.0099	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.167	0.282	0.009	0.183	0.15	0.044	0.724	0.024	1.496	0.343	0.792	2.6058	0.01	0.002
113	645771	4265384	0.0041	0.0053	0.0069	0.0103	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.196	0.292	0.009	0.184	0.151	0.045	0.744	0.025	1.536	0.345	0.814	2.6700	0.01	0.002
114	645781	4265384	0.0042	0.0054	0.0071	0.0107	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.049	1.227	0.303	0.009	0.185	0.152	0.046	0.766	0.025	1.578	0.347	0.836	2.7359	0.011	0.002
115	645791	4265384	0.0043	0.0056	0.0073	0.0111	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.05	1.258	0.314	0.009	0.186	0.153	0.047	0.788	0.025	1.621	0.348	0.859	2.8037	0.011	0.002
116	645801	4265384	0.0044	0.0057	0.0075	0.0116	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.051	1.289	0.325	0.009	0.187	0.154	0.048	0.81	0.025	1.665	0.35	0.883	2.8732	0.012	0.002
117	645811	4265384	0.0045	0.0059	0.0077	0.0121	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.052	1.322	0.336	0.009	0.188	0.155	0.049	0.833	0.025	1.71	0.352	0.907	2.9449	0.012	0.002
118	645821	4265384	0.0046	0.006	0.0079	0.0125	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.053	1.355	0.348	0.009	0.189	0.156	0.05	0.857	0.025	1.757	0.354	0.933	3.0184	0.013	0.003
119	645761	4265394	0.004	0.0051	0.0066	0.0097	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.046	1.154	0.278	0.009	0.182	0.15	0.043	0.714	0.024	1.477	0.341	0.782	2.5758	0.01	0.002
120	645771	4265394	0.0041	0.0052	0.0068	0.0101	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.047	1.182	0.287	0.009	0.183	0.151	0.044	0.734	0.025	1.517	0.343	0.803	2.6381	0.01	0.002
121	645781	4265394	0.0042	0.0054	0.007	0.0105	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.048	1.212	0.297	0.009	0.184	0.152	0.045	0.755	0.025	1.557	0.345	0.824	2.7020	0.011	0.002
122	645791	4265394	0.0043	0.0055	0.0072	0.0109	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.049	1.242	0.308	0.009	0.185	0.153	0.046	0.776	0.025	1.599	0.347	0.847	2.7676	0.011	0.002
123	645801	4265394	0.0044	0.0057	0.0074	0.0113	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.05	1.273	0.318	0.009	0.186	0.153	0.047	0.797	0.025	1.641	0.349	0.869	2.8348	0.011	0.002
124	645811	4265394	0.0045	0.0058	0.0076	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.051	1.304	0.33	0.009	0.187	0.154	0.048	0.819	0.025	1.685	0.351	0.893	2.9040	0.012	0.002
125	645821	4265394	0.0046	0.0059	0.0078	0.0122	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.053	1.337	0.341	0.009	0.188	0.155	0.05	0.842	0.025	1.73	0.353	0.917	2.9750	0.012	0.002
126	647658	4263628	0.0014	0.0013	0.0012	0.0013	0.0017	0.002	0.0023	0.0025	0.0028	0.0031	0.0036	0.0041	0.005	0.0061	0.0083	0.0111	0.0127	0.016	0.316	0.041	0.02	0.457	1.154	0.015	0.466	0.233	0.374	1.631	0.714	2.4858	0.013	0.003
127	647658	4263638	0.0014	0.0013	0.0012	0.0013	0.0017	0.002	0.0023	0.0025	0.0028	0.0031	0.0036	0.0041	0.005	0.006	0.0081	0.0107	0.0121	0.016	0.315	0.041	0.02	0.453	1.125	0.015	0.463	0.227	0.372	1.598	0.705	2.4483	0.012	0.002
128	647916	4263707	0.0009	0.0009	0.0008	0.0009	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0023	0.0026	0.003	0.0027	0.011	0.215	0.029	0.013	0.293	0.417	0.01	0.288	0.076	0.255	0.724	0.375	1.2772	0.003	6E-04
129	647926	4263707	0.0009	0.0009	0.0008	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0016	0.0018	0.0019	0.002	0.0022	0.0025	0.0029	0.0026	0.011	0.212	0.029	0.013	0.288	0.407	0.01	0.283	0.074	0.252	0.708	0.368	1.2534	0.003	6E-04
130	647916	4263717	0.0009	0.0009	0.0008	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0022	0.0026	0.0029	0.0027	0.011	0.214	0.029	0.013	0.29	0.413	0.01	0.286	0.075	0.253	0.716	0.371	1.2651	0.003	6E-04
131	647926	4263717	0.0009	0.0009	0.0008	0.0009	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0019	0.002	0.0022	0.0025	0.0029	0.0026	0.011	0.211	0.028	0.013	0.285	0.403	0.01	0.281	0.073	0.25	0.702	0.365	1.2432	0.003	6E-04
132	647916	4263737	0.0009	0.0009	0.0008	0.0009	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016	0.0018	0.0019	0.002	0.0022	0.0025	0.0029	0.0026	0.011	0.212	0.029	0.013	0.284	0.405	0.01	0.281	0.074	0.251	0.703	0.365	1.2450	0.003	6E-04
133	647926	4263737	0.0009	0.0009	0.0008	0.0009	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0018	0.002	0.0022	0.0024	0.0028	0.0025	0.011	0.209	0.028	0.013	0.28	0.396	0.01	0.277	0.072	0.248	0.689	0.359	1.2234	0.003	6E-04
134	647886	4263747	0.001	0.0009	0.0009	0.0009	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0019	0.002	0.0022	0.0024	0.0027	0.0031	0.0028	0.011	0.219	0.029	0.014	0.296	0.433	0.01	0.293	0.079	0.26	0.743	0.383	1.3058	0.003	6E-04
135	647896	4263747	0.0009	0.0009	0.0009	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0023	0.0026	0.003	0.0027	0.011	0.216	0.029	0.013	0.291	0.422	0.01	0.288	0.077	0.256	0.726	0.376	1.2811	0.003	6E-04
136	647886	4263757	0.001	0.0009	0.0009	0.0009	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0018	0.002	0.0022	0.0024	0.0027	0.0031	0.0028	0.011	0.218	0.029	0.014	0.294	0.429	0.01	0.291	0.079	0.258	0.737	0.38	1.2968	0.003	6E-04
137	647896	4263757	0.0009	0.0009	0.0009	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0023	0.0026	0.003	0.0027	0.011	0.215	0.029	0.013	0.289	0.418	0.01	0.286	0.077	0.255	0.721	0.373	1.2724	0.003	6E-04
138	647415	4263742	0.002	0.0018	0.0016	0.0017	0.0024	0.0028	0.0035	0.0042	0.005	0.006	0.0074	0.0088	0.0108	0.0121	0.0116	0.0107	0.0111	0.023	0.438	0.056	0.027	0.648	1.708	0.022	0.726	0.336	0.517	2.384	1.084	3.6485	0.012	0.002
139	647445	4263742	0.0019	0.0017	0.0016	0.0016	0.0022	0.0025	0.0032	0.0038	0.0045	0.0053	0.0066	0.0078	0.0097	0.0112	0.0115	0.0109	0.0107	0.022	0.414	0.053	0.026	0.59	1.593	0.02	0.662	0.316	0.489	2.209	0.998	3.3806	0.012	0.002
140	647415	4263752	0.002	0.0018	0.0016	0.0017	0.0024	0.0028	0.0034	0.0041	0.005	0.0059	0.0073	0.0086	0.0105	0.0117	0.0113	0.0104	0.0109	0.023	0.436	0.056	0.027	0.641	1.662	0.021	0.717	0.326	0.514	2.331	1.065	3.5841	0.012	0.002
141	647445	4263752	0.0019	0.0017	0.0016	0.0016	0.0022	0.0025	0.0031	0.0037	0.0044	0.0052	0.0064	0.0076	0.0094	0.0109	0.0111	0.0106	0.0104	0.022	0.412	0.053	0.026	0.584	1.55	0.02	0.654	0.307	0.487	2.16	0.981	3.3210	0.011	0.002
142	647415	4263772	0.002	0.0018	0.0016	0.0017	0.0023	0.0027	0.0034	0.004	0.0048	0.0057	0.0069	0.0081	0.0098	0.0109	0.0106	0.0099	0.0104	0.023	0.432	0.055	0.027	0.63	1.579	0.021	0.701	0.309	0.51	2.236	1.031	3.4677	0.011	0.002
143	647425	4263772	0.0019	0.0017	0.0016	0.0017	0.0023	0.0027	0.0033	0.0039	0.0046	0.0054	0.0067	0.0078	0.0095	0.0106	0.0105	0.0099	0.0102	0.022	0.424	0.054	0.026	0.613	1.543	0.021	0.681	0.302	0.501	2.182	1.004	3.3853	0.011	0.002
144	647435	4263772	0.0019	0.0017	0.0016	0.0017	0.0022	0.0026	0.0032	0.0038	0.0045	0.0052	0.0064	0.0075	0.0092	0.0104	0.0105	0.01	0.01	0.022	0.416	0.054	0.026	0.596	1.508	0.02	0.662	0.296	0.492	2.129	0.978	3.3026	0.01	0.002
145	647445	4263772	0.0018	0.0017	0.0015	0.0016	0.0022	0.0025	0.0031	0.0036	0.0043	0.005	0.0061	0.0073	0.0089	0.0101	0.0104	0.01	0.0099	0.021	0.409	0.053	0.025	0.575	1.472	0.02	0.641	0.29	0.483	2.073	0.951	3.2164	0.01	0.002
146	647415	4263782	0.0019	0.0018	0.0016	0.0017	0.0023	0.0027	0.0033	0.004	0.0047	0.0056	0.0068	0.0079	0.0095	0.0105	0.0103	0.0097	0.0102	0.022	0.43	0.055	0.027	0.624	1.54	0.021	0.693	0.3	0.508	2.191	1.015	3.4134	0.011	0.002
147	647425	4263782	0.0019	0.0017	0.0016	0.0017	0.0022	0.0027	0.0032	0.0038	0.0046	0.0054	0.0065	0.0077	0.0092	0.0103	0.0102	0.0097	0.01	0.022	0.422	0.054	0.026	0.609	1.506	0.021	0.675	0.294	0.499	2.141	0.99	3.3351	0.01	0.002
148	647435	4263782	0.0019	0.0017	0.0016	0.0017	0.0022	0.0026	0.0031	0.0037	0.0044	0.0052	0.0063	0.0074	0.0089	0.0101	0.0102	0.0097	0.0098	0.022	0.415	0.053	0.025	0.592	1.471	0.02	0.655	0.288	0.49	2.089	0.964	3.2547	0.01	0.002
149	647445	4263782	0.0018	0.0017	0.0015	0.0016	0.0022	0.0025	0.003	0.0036	0.0043	0.005	0.006	0.0071	0.0086	0.0098	0.0101	0.0097	0.0097	0.021	0.407	0.053	0.025	0.577	1.438	0.02	0.638	0.282	0.481	2.04	0.94	3.1788	0.01	0.002
150	647492	4263780	0.0017	0.0015	0.0014	0.0015	0.0019	0.0022	0.0026	0.0031	0.0036	0.0042	0.0051	0.0059	0.0073	0.0086	0.0095	0.0098	0.0093	0.019	0.374	0.049	0.022	0.502	1.291	0.018	0.557	0.256	0.442	1.816	0.831	2.8325	0.01	0.002
151	647502	4263780	0.0016	0.0015	0.0014	0.0015	0.0019	0.0021	0.0025	0.003	0.0035	0.0041	0.0049	0.0057	0.0071	0.0083	0.0093	0.0097	0.0092	0.019	0.367	0.048	0.022	0.49	1.259	0.018	0.541	0.25	0.434	1.77	0.809	2.7635	0.01	0.002
152	647492	4263790	0.0017	0.0015	0.0014	0.0015	0.0019	0.0021	0.0026	0.0031	0.0036	0.0041	0.005	0.0058	0.0072	0.0084	0.0092	0.0095	0.0091	0.019	0.372	0.049	0.022	0.5	1.262	0.018	0.553	0.249	0.44	1.784	0.82	2.7952	0.01	0.002
153	647502	4263790	0.0016	0.0015	0.0014	0.0015	0.0019	0.0021	0.0025	0.003	0.0035	0.004	0.0048	0.0056	0.0069	0.0081	0.0091	0.0094	0.0089	0.019	0.365	0.048	0.022	0.487	1.229	0.018	0.537	0.243	0.432	1.738	0.798	2.7245	0.009	0.002
154	647535	4263796	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0023	0.0027	0.0031	0.0035	0.0042	0.0049	0.006	0.0071	0.0082	0.0089	0.0085	0.018	0.344	0.045	0.02	0.451	1.112	0.017	0.491	0.221	0.407	1.582	0.728	2.4973	0.009	0.002
155	647545	4263796	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0022	0.0026	0.003	0.0034	0.0041	0.0047	0.0058	0.0068	0.008	0.0088	0.0084	0.017	0.339	0.045	0.02	0.443	1.085	0.016	0.481	0.215	0.401	1.548	0.713	2.4463	0.009	0.002
156	647535	4263806	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0023	0.0027	0.0031	0.0035	0.0042	0.0048	0.0059	0.0069	0.008	0.0087	0.0083	0.018	0.343	0.045	0.02	0.451	1.092	0.017	0.492	0.216	0.406	1.564	0.724	2.4784	0.009	0.002
157	647545	4263806	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0022	0.0026	0.003	0.0034	0.004	0.0047	0.0057	0.0067	0.0078	0.0086	0.0082	0.017	0.338	0.044	0.02	0.443	1.066	0.016	0.482	0.211	0.4	1.529	0.709	2.4270	0.009	0.002
158	647540	4263772	0.0015	0.0014	0.0013	0.0014	0.0018	0.002	0.0023	0.0027	0.0032	0.0036	0.0043	0.0051	0.0062	0.0074	0.0088	0.0097	0.0093	0.018	0.347	0.045	0.021	0.46	1.173	0.017	0.502	0.234	0.41	1.654	0.752	2.5824	0.01	0.002
159	647550	4263772	0.0015	0.0014	0.0013	0.0014	0.0018	0.0019	0.0023	0.0027	0.0031	0.0036	0.0042	0.0049	0.006	0.0072	0.0085	0.0095	0.0093	0.018	0.342	0.045	0.02	0.455	1.147	0.017	0.494	0.228	0.405	1.623	0.739	2.5381	0.01	0.002
160	647540	4263782	0.0015	0.0014	0.0013	0.0014	0.0017	0.002	0.0023	0.0027	0.0031	0.0036	0.0043	0.005	0.0061	0.0072	0.0085	0.0093	0.0089	0.018	0.345	0.045	0.02	0.454	1.141	0.017	0.494	0.227	0.408	1.615	0.738	2.5335	0.009	0.002
161	647550	4263782	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0023	0.0027	0.0031	0.0035	0.0041	0.0048	0.0059	0.007	0.0083	0.0092	0.0089	0.018	0.34	0.045	0.02	0.45	1.118	0.017	0.488	0.222	0.402	1.588	0.727	2.4949	0.009	0.002
162	647549	4263723	0.0016	0.0015	0.0014	0.0014	0.0019	0.0021	0.0025	0.0029	0.0034	0.0038	0.0046	0.0054	0.0067	0.0081	0.01	0.0116	0.0115	0.018	0.353	0.046	0.022	0.493	1.32	0.017	0.528	0.266	0.417	1.835	0.811	2.7976	0.012	0.002
163	647559	4263723	0.0016	0.0014	0.0013	0.0014	0.0019	0.0021	0.0025	0.0029	0.0033	0.0037	0.0044	0.0052	0.0064	0.0078	0.0097	0.0114	0.0114	0.018	0.348	0.045	0.022	0.492	1.286	0.017	0.52	0.259	0.411	1.799	0.796	2.7483	0.011	0.002
164	647549	4263733	0.0016	0.0015	0.0013	0.0014	0.0019	0.0021	0.0025	0.0029	0.0033	0.0038	0.0045	0.0053	0.0066	0.0079	0.0097	0.0111	0.011	0.018	0.351	0.046	0.022	0.484	1.281	0.017	0.521	0.257	0.415	1.787	0.795	2.7393	0.011	0.002
165	647559	4263733	0.0015	0.0014	0.0013	0.0014	0.0019	0.0021	0.0025	0.0028	0.0032	0.0037	0.0044	0.0051	0.0063	0.0076	0.0094	0.0109	0.0109	0.018	0.346	0.045	0.021	0.485	1.249	0.017	0.514	0.251	0.409	1.755	0.781	2.6951	0.011	0.002
166	647540	4263752	0.0016	0.0015	0.0013	0.0014	0.0018	0.002	0.0024	0.0028	0.0033	0.0038	0.0045	0.0053	0.0065	0.0078	0.0093	0.0104	0.0101	0.018	0.351	0.046	0.021	0.473	1.24	0.017	0.515	0.248	0.415	1.735	0.78	2.6820	0.01	0.002
167	647550	4263752	0.0015	0.0014	0.0013	0.0014	0.0018	0.002	0.0024	0.0028	0.0032	0.0037	0.0044	0.0051	0.0063	0.0075	0.0091	0.0103	0.0101	0.018	0.346	0.045	0.021	0.469	1.211	0.017	0.507	0.242	0.41	1.701	0.766	2.6342	0.01	0.002
168	647540	4263762	0.0016	0.0014	0.0013	0.0014	0.0018	0.002	0.0024	0.0028	0.0033	0.0037	0.0044	0.0052	0.0064	0.0076	0.009	0.01	0.0097	0.018	0.349	0.046	0.021	0.466	1.205	0.017	0.508	0.241	0.412	1.692	0.765	2.6289	0.01	0.002
169	647550	4263762	0.0015	0.0014	0.0013	0.0014	0.0018	0.002	0.0023	0.0027	0.0032	0.0036	0.0043	0.005	0.0061	0.0073	0.0088	0.0099	0.0097	0.018	0.344	0.045	0.021	0.461	1.177	0.017	0.5	0.235	0.407	1.659	0.751	2.5822	0.01	0.002
170	647480	4263738	0.0018	0.0016	0.0015	0.0016	0.0021	0.0023	0.0028	0.0034	0.004	0.0047	0.0057	0.0068	0.0086	0.0102	0.0113	0.0114	0.0107	0.02	0.39	0.05	0.024	0.54	1.489	0.019	0.602	0.298	0.461	2.052	0.918	3.1338	0.011	0.002
171	647480	4263718	0.0018	0.0016	0.0015	0.0016	0.0021	0.0024	0.0029	0.0035	0.0042	0.0049	0.006	0.0072	0.0091	0.0109	0.0122	0.0123	0.0115	0.021	0.395	0.051	0.025	0.559	1.583	0.019	0.62	0.318	0.466	2.166	0.957	3.2714	0.012	0.002

172	647480	4263728	0.0018	0.0016	0.0015	0.0016	0.0021	0.0023	0.0029	0.0035	0.0041	0.0048	0.0059	0.007	0.0088	0.0105	0.0117	0.0118	0.011	0.02	0.392	0.051	0.024	0.549	1.534	0.019	0.611	0.307	0.463	2.106	0.937	3.1994	0.012	0.002
173	646052	4262282	0.0009	0.0009	0.0009	0.0008	0.0026	0.0026	0.0026	0.0027	0.0028	0.0029	0.0031	0.0032	0.0041	0.0051	0.0055	0.0059	0.0065	0.011	0.213	0.027	0.03	0.609	0.824	0.01	0.478	0.155	0.251	1.464	0.643	2.2028	0.007	0.001
174	646062	4262282	0.0009	0.0009	0.0009	0.0008	0.0026	0.0026	0.0026	0.0027	0.0028	0.003	0.0031	0.0033	0.0042	0.0052	0.0056	0.006	0.0066	0.011	0.213	0.027	0.03	0.618	0.839	0.01	0.485	0.157	0.251	1.487	0.652	2.2325	0.007	0.001
175	646072	4262282	0.0009	0.0009	0.0009	0.0008	0.0027	0.0026	0.0027	0.0027	0.0029	0.003	0.0032	0.0033	0.0043	0.0053	0.0056	0.0061	0.0068	0.011	0.213	0.027	0.031	0.626	0.853	0.01	0.491	0.16	0.251	1.511	0.661	2.2630	0.007	0.001
176	646052	4262292	0.0009	0.0009	0.0009	0.0008	0.0026	0.0026	0.0026	0.0027	0.0028	0.0029	0.0031	0.0033	0.0042	0.0052	0.0056	0.0061	0.0068	0.011	0.214	0.027	0.03	0.614	0.843	0.01	0.482	0.159	0.252	1.487	0.651	2.2319	0.007	0.001
177	646062	4262292	0.0009	0.0009	0.0009	0.0008	0.0027	0.0026	0.0026	0.0027	0.0029	0.003	0.0031	0.0033	0.0043	0.0053	0.0057	0.0062	0.0069	0.011	0.214	0.027	0.031	0.623	0.858	0.01	0.489	0.161	0.253	1.511	0.661	2.2627	0.007	0.001
178	646072	4262292	0.0009	0.0009	0.0009	0.0008	0.0027	0.0027	0.0027	0.0028	0.0029	0.003	0.0032	0.0034	0.0044	0.0054	0.0058	0.0063	0.007	0.011	0.215	0.027	0.031	0.632	0.873	0.01	0.495	0.164	0.253	1.536	0.67	2.2942	0.007	0.001
179	645777	4262282	0.001	0.0009	0.0009	0.0008	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0019	0.002	0.0023	0.0028	0.0032	0.0036	0.0042	0.011	0.218	0.027	0.021	0.426	0.508	0.01	0.35	0.093	0.256	0.955	0.453	1.5714	0.004	8E-04
180	645787	4262282	0.001	0.0009	0.0009	0.0008	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.002	0.002	0.0024	0.0028	0.0032	0.0037	0.0043	0.011	0.218	0.027	0.021	0.431	0.517	0.01	0.353	0.095	0.256	0.969	0.459	1.5888	0.004	9E-04
181	645777	4262292	0.001	0.0009	0.0009	0.0008	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.002	0.002	0.0024	0.0028	0.0032	0.0036	0.0043	0.011	0.22	0.027	0.021	0.428	0.514	0.011	0.352	0.094	0.258	0.963	0.457	1.5831	0.004	9E-04
182	645787	4262292	0.001	0.0009	0.0009	0.0008	0.0019	0.0018	0.0018	0.0018	0.0019	0.0019	0.002	0.002	0.0024	0.0029	0.0033	0.0037	0.0044	0.011	0.219	0.027	0.021	0.433	0.523	0.011	0.355	0.096	0.257	0.978	0.462	1.6010	0.004	9E-04
183	646321	4262580	0.0012	0.0012	0.0011	0.001	0.0056	0.0057	0.0062	0.007	0.0082	0.0096	0.0114	0.0139	0.0311	0.073	0.0334	0.0142	0.0089	0.014	0.277	0.035	0.065	1.358	4.065	0.013	1.136	0.847	0.326	5.489	1.996	6.9631	0.073	0.015
184	646331	4262580	0.0012	0.0012	0.0011	0.001	0.0058	0.0058	0.0063	0.0072	0.0085	0.0099	0.0119	0.0146	0.0336	0.0752	0.029	0.0132	0.0084	0.014	0.278	0.035	0.067	1.391	4.083	0.013	0.766	0.848	0.327	5.541	1.627	6.6472	0.075	0.015
185	646341	4262580	0.0012	0.0012	0.0012	0.001	0.0059	0.006	0.0065	0.0074	0.0088	0.0103	0.0124	0.0154	0.0364	0.0761	0.0254	0.0122	0.008	0.014	0.279	0.035	0.068	1.425	4.104	0.013	0.771	0.849	0.328	5.597	1.633	6.7090	0.076	0.015
186	646321	4262590	0.0012	0.0012	0.0012	0.001	0.0057	0.0058	0.0063	0.0071	0.0085	0.0098	0.0118	0.0145	0.0338	0.0848	0.0332	0.0141	0.0088	0.014	0.279	0.035	0.066	1.378	4.362	0.013	0.814	0.915	0.329	5.806	1.742	6.9619	0.085	0.017
187	646331	4262590	0.0012	0.0012	0.0012	0.001	0.0059	0.0059	0.0064	0.0073	0.0088	0.0102	0.0124	0.0153	0.0367	0.0864	0.0287	0.013	0.0083	0.014	0.28	0.035	0.068	1.412	4.379	0.013	0.818	0.915	0.33	5.858	1.746	7.0191	0.086	0.017
188	646341	4262590	0.0012	0.0012	0.0012	0.001	0.006	0.0061	0.0066	0.0076	0.0091	0.0107	0.0129	0.0162	0.0399	0.0871	0.025	0.0121	0.0079	0.014	0.281	0.036	0.069	1.447	4.407	0.013	0.824	0.917	0.331	5.924	1.755	7.0916	0.087	0.017
189	646323	4262548	0.0012	0.0011	0.0011	0.001	0.0054	0.0055	0.0059	0.0066	0.0076	0.0088	0.0103	0.0123	0.0247	0.0483	0.0311	0.0144	0.0091	0.013	0.271	0.034	0.063	1.301	3.349	0.013	0.636	0.686	0.318	4.713	1.334	5.6797	0.048	0.01
190	646333	4262548	0.0012	0.0011	0.0011	0.001	0.0055	0.0056	0.006	0.0067	0.0079	0.0091	0.0107	0.0128	0.0263	0.0502	0.028	0.0134	0.0086	0.014	0.271	0.034	0.064	1.331	3.363	0.013	0.639	0.686	0.319	4.758	1.338	5.7289	0.05	0.01
191	646371	4262561	0.0012	0.0012	0.0011	0.001	0.0061	0.0062	0.0068	0.0077	0.0091	0.0108	0.013	0.0163	0.0378	0.0592	0.0188	0.0103	0.007	0.014	0.277	0.035	0.071	1.482	3.682	0.013	0.699	0.745	0.326	5.236	1.458	6.2745	0.059	0.012
192	646381	4262561	0.0012	0.0012	0.0011	0.001	0.0063	0.0064	0.007	0.0079	0.0094	0.0112	0.0136	0.0172	0.0406	0.0575	0.0171	0.0096	0.0067	0.014	0.278	0.035	0.073	1.518	3.7	0.013	0.704	0.746	0.327	5.291	1.462	6.3357	0.058	0.012
193	646025	4262309	0.0009	0.0009	0.0009	0.0008	0.0026	0.0025	0.0025	0.0026	0.0028	0.0029	0.003	0.0032	0.004	0.005	0.0057	0.0063	0.0069	0.011	0.217	0.027	0.03	0.599	0.834	0.01	0.175	0.158	0.255	1.462	0.343	1.9023	0.007	0.001
194	646091	4262311	0.0009	0.0009	0.0009	0.0008	0.0028	0.0028	0.0028	0.0029	0.0031	0.0032	0.0034	0.0036	0.0047	0.0059	0.0063	0.0069	0.0079	0.011	0.218	0.028	0.032	0.659	0.945	0.01	0.196	0.179	0.256	1.636	0.386	2.0985	0.008	0.002
195	646091	4262321	0.0009	0.0009	0.0009	0.0008	0.0028	0.0028	0.0028	0.0029	0.0031	0.0032	0.0034	0.0037	0.0048	0.0061	0.0065	0.0072	0.0083	0.011	0.219	0.028	0.033	0.664	0.969	0.01	0.2	0.185	0.258	1.666	0.395	2.1352	0.008	0.002
196	646026	4262282	0.0009	0.0009	0.0009	0.0008	0.0025	0.0025	0.0025	0.0026	0.0027	0.0028	0.0029	0.0031	0.0039	0.0048	0.0053	0.0058	0.0062	0.011	0.213	0.027	0.029	0.588	0.789	0.01	0.167	0.148	0.251	1.406	0.325	1.8333	0.006	0.001
197	646036	4262282	0.0009	0.0009	0.0009	0.0008	0.0025	0.0025	0.0025	0.0026	0.0027	0.0028	0.003	0.0031	0.0039	0.0049	0.0054	0.0058	0.0063	0.011	0.213	0.027	0.029	0.596	0.803	0.01	0.169	0.151	0.251	1.428	0.33	1.8579	0.006	0.001
198	646026	4262292	0.0009	0.0009	0.0009	0.0008	0.0025	0.0025	0.0025	0.0026	0.0027	0.0028	0.0029	0.0031	0.0039	0.0049	0.0054	0.006	0.0065	0.011	0.214	0.027	0.029	0.592	0.806	0.01	0.17	0.152	0.252	1.427	0.331	1.8594	0.006	0.001
199	646036	4262292	0.0009	0.0009	0.0009	0.0008	0.0026	0.0025	0.0025	0.0026	0.0028	0.0029	0.003	0.0032	0.004	0.005	0.0055	0.006	0.0066	0.011	0.214	0.027	0.03	0.601	0.82	0.01	0.172	0.154	0.252	1.45	0.337	1.8848	0.007	0.001

Exposure Parameters used in HRA

Residential _res

Parameter	Abbr.	3rd Tri	0<2	2<16	16<30	Source
Daily Breathing Rate (L/kg/day)	DBR	361	1,090	572	261	OEHHA Table 5.7, 95th percentile for 3rd Tri and 0<2, 80th percentile all other age groups
Fraction of Time at Home (unitless)	FAH	0.85	0.72	0.73	0.73	OEHHA Table 8.4
Age Sensitivity Factor (unitless)	ASF	10	10	3	1	OEHHA Table 8.3
Exposure Frequency (unitless)	EF	0.96	0.96	0.96	0.96	Based on 350 days per year
Exposure Duration (years)	ED	~~0.25~~	~~2.00~~	~~14.00~~	~~14~~	Defined in Age Bin (Risk)
Averaging Time for Lifetime (years)	AT	70				Averaging Time always 70 years
Inhalation Absorption Factor (unitless)	A	1				OEHHA Table 8.2
Cancer Conversion Factor (unitless)	CCF	1,000,000				Conversion factor to convert cancer risk to chances per million
Cancer Potency Factor $(mg/kg/day)^{-1}$	CPF	1.1				OEHHA Table 7.1
Conversion Factor (ug to mg, L to m^3)	CF	0.000001				-

RESIDENT DOSE: CONC x DBR x A x EF x CF OEHHA Eq 5.4.1.1

RESIDENT CANCER RISK: DOSE x CPF x ASF x [ED/AT] x FAH x CCF OEHHA Eq 8.2.4

Scaled Concentrations at receptors

Source Emission Rate (g/s) at Aspen Mining Areas

VIII	IXE	IXW
0.0002	0.0002	0.0002

The concentration at Aspen IX is determined by the combined concentration from both the East and West areas.

$$Conc = \sum_{all\ sources} Emission\ Rate * Unitized\ Conc$$

Concentrations at receptors calculated by multiplying Source Emission Rate and Unitized Concentrations. Units: micrograms/m3

Num	X	Y	8Y01	8Y02	8Y03	8Y04	9Y01	9Y02	9Y03	9Y04	9Y05	9Y06	9Y07	9Y08	9Y09	9Y10	9Y11	9Y12	9Y13
1	645773	4263870	0.0038	0.0040	0.0042	0.0031	0.0015	0.0014	0.0014	0.0015	0.0016	0.0016	0.0016	0.0016	0.0017	0.0018	0.0021	0.0022	0.0024
2	645831	4263870	0.0042	0.0044	0.0044	0.0032	0.0016	0.0015	0.0015	0.0016	0.0017	0.0017	0.0017	0.0017	0.0018	0.0020	0.0022	0.0023	0.0026
3	645549.5	4263919	0.0029	0.0031	0.0033	0.0027	0.0011	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0014	0.0015	0.0016	0.0018
4	645545.8	4263871	0.0028	0.0030	0.0031	0.0025	0.0011	0.0011	0.0011	0.0012	0.0012	0.0013	0.0013	0.0012	0.0013	0.0014	0.0016	0.0016	0.0018
5	645701.2	4265304	0.0037	0.0048	0.0063	0.0087	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
6	645711.2	4265304	0.0038	0.0049	0.0065	0.0091	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
7	645721.2	4265304	0.0039	0.0051	0.0067	0.0095	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
8	645731.2	4265304	0.0040	0.0052	0.0069	0.0099	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
9	645741.2	4265304	0.0041	0.0054	0.0072	0.0104	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
10	645751.2	4265304	0.0042	0.0055	0.0074	0.0108	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
11	645761.2	4265304	0.0043	0.0057	0.0076	0.0114	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
12	645771.2	4265304	0.0044	0.0058	0.0078	0.0119	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
13	645781.2	4265304	0.0045	0.0060	0.0081	0.0125	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
14	645791.2	4265304	0.0047	0.0062	0.0083	0.0131	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
15	645801.2	4265304	0.0048	0.0064	0.0086	0.0137	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
16	645811.2	4265304	0.0049	0.0066	0.0089	0.0144	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
17	645821.2	4265304	0.0050	0.0067	0.0091	0.0151	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
18	645701.2	4265314	0.0037	0.0048	0.0063	0.0086	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
19	645711.2	4265314	0.0038	0.0049	0.0065	0.0090	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
20	645721.2	4265314	0.0039	0.0050	0.0066	0.0093	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
21	645731.2	4265314	0.0040	0.0052	0.0068	0.0098	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
22	645741.2	4265314	0.0041	0.0053	0.0071	0.0102	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
23	645751.2	4265314	0.0042	0.0055	0.0073	0.0107	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
24	645761.2	4265314	0.0043	0.0056	0.0075	0.0112	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
25	645771.2	4265314	0.0044	0.0058	0.0077	0.0117	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
26	645781.2	4265314	0.0045	0.0059	0.0080	0.0122	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
27	645791.2	4265314	0.0046	0.0061	0.0082	0.0128	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
28	645801.2	4265314	0.0047	0.0063	0.0085	0.0134	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
29	645811.2	4265314	0.0048	0.0065	0.0087	0.0141	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
30	645821.2	4265314	0.0050	0.0067	0.0090	0.0148	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
31	645701.2	4265324	0.0037	0.0047	0.0062	0.0085	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
32	645711.2	4265324	0.0037	0.0048	0.0064	0.0088	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
33	645721.2	4265324	0.0038	0.0050	0.0066	0.0092	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
34	645731.2	4265324	0.0039	0.0051	0.0067	0.0096	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
35	645741.2	4265324	0.0040	0.0053	0.0070	0.0100	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
36	645751.2	4265324	0.0041	0.0054	0.0072	0.0105	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
37	645761.2	4265324	0.0042	0.0055	0.0074	0.0110	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008
38	645771.2	4265324	0.0043	0.0057	0.0076	0.0115	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
39	645781.2	4265324	0.0044	0.0059	0.0078	0.0120	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
40	645791.2	4265324	0.0046	0.0060	0.0081	0.0126	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008

41	645801.2	4265324	0.0047	0.0062	0.0083	0.0132	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
42	645811.2	4265324	0.0048	0.0064	0.0086	0.0138	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
43	645821.2	4265324	0.0049	0.0066	0.0088	0.0144	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
44	645701.2	4265334	0.0036	0.0047	0.0061	0.0084	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
45	645711.2	4265334	0.0037	0.0048	0.0063	0.0087	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
46	645721.2	4265334	0.0038	0.0049	0.0065	0.0091	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
47	645731.2	4265334	0.0039	0.0051	0.0067	0.0095	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
48	645741.2	4265334	0.0040	0.0052	0.0069	0.0099	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
49	645751.2	4265334	0.0041	0.0053	0.0071	0.0103	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
50	645761.2	4265334	0.0042	0.0055	0.0073	0.0108	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
51	645771.2	4265334	0.0043	0.0056	0.0075	0.0113	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
52	645781.2	4265334	0.0044	0.0058	0.0077	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
53	645791.2	4265334	0.0045	0.0060	0.0079	0.0123	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
54	645801.2	4265334	0.0046	0.0061	0.0082	0.0129	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
55	645811.2	4265334	0.0047	0.0063	0.0084	0.0135	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
56	645821.2	4265334	0.0049	0.0065	0.0086	0.0141	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
57	645701.2	4265344	0.0036	0.0046	0.0060	0.0083	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
58	645711.2	4265344	0.0037	0.0047	0.0062	0.0086	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
59	645721.2	4265344	0.0038	0.0049	0.0064	0.0090	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
60	645731.2	4265344	0.0039	0.0050	0.0066	0.0093	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
61	645741.2	4265344	0.0040	0.0051	0.0068	0.0097	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
62	645751.2	4265344	0.0041	0.0053	0.0069	0.0102	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
63	645761.2	4265344	0.0042	0.0054	0.0071	0.0106	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
64	645771.2	4265344	0.0043	0.0056	0.0074	0.0111	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
65	645781.2	4265344	0.0044	0.0057	0.0076	0.0116	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
66	645791.2	4265344	0.0045	0.0059	0.0078	0.0121	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
67	645801.2	4265344	0.0046	0.0060	0.0080	0.0126	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
68	645811.2	4265344	0.0047	0.0062	0.0083	0.0132	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
69	645821.2	4265344	0.0048	0.0064	0.0085	0.0138	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
70	645701.2	4265354	0.0036	0.0046	0.0059	0.0082	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
71	645711.2	4265354	0.0037	0.0047	0.0061	0.0085	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
72	645721.2	4265354	0.0037	0.0048	0.0063	0.0088	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
73	645731.2	4265354	0.0038	0.0050	0.0065	0.0092	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
74	645741.2	4265354	0.0039	0.0051	0.0067	0.0096	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
75	645751.2	4265354	0.0040	0.0052	0.0068	0.0100	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
76	645761.2	4265354	0.0041	0.0054	0.0070	0.0104	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
77	645771.2	4265354	0.0042	0.0055	0.0072	0.0109	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
78	645781.2	4265354	0.0043	0.0057	0.0075	0.0113	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
79	645791.2	4265354	0.0044	0.0058	0.0077	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
80	645801.2	4265354	0.0045	0.0060	0.0079	0.0123	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
81	645811.2	4265354	0.0046	0.0061	0.0081	0.0129	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
82	645821.2	4265354	0.0048	0.0063	0.0083	0.0134	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
83	645701.2	4265364	0.0036	0.0045	0.0059	0.0081	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
84	645711.2	4265364	0.0036	0.0047	0.0060	0.0084	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
85	645721.2	4265364	0.0037	0.0048	0.0062	0.0087	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
86	645731.2	4265364	0.0038	0.0049	0.0064	0.0091	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
87	645741.2	4265364	0.0039	0.0050	0.0066	0.0094	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
88	645751.2	4265364	0.0040	0.0052	0.0067	0.0098	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008

89	645761.2	4265364	0.0041	0.0053	0.0069	0.0102	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
90	645771.2	4265364	0.0042	0.0054	0.0071	0.0107	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
91	645781.2	4265364	0.0043	0.0056	0.0073	0.0111	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
92	645791.2	4265364	0.0044	0.0057	0.0075	0.0116	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
93	645801.2	4265364	0.0045	0.0059	0.0077	0.0121	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
94	645811.2	4265364	0.0046	0.0060	0.0080	0.0126	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
95	645821.2	4265364	0.0047	0.0062	0.0082	0.0131	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
96	645701.2	4265374	0.0035	0.0045	0.0058	0.0080	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
97	645711.2	4265374	0.0036	0.0046	0.0060	0.0083	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
98	645721.2	4265374	0.0037	0.0047	0.0061	0.0086	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
99	645731.2	4265374	0.0038	0.0049	0.0063	0.0089	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
100	645741.2	4265374	0.0039	0.0050	0.0065	0.0093	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
101	645751.2	4265374	0.0040	0.0051	0.0066	0.0097	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
102	645761.2	4265374	0.0040	0.0052	0.0068	0.0101	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
103	645771.2	4265374	0.0041	0.0054	0.0070	0.0105	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
104	645781.2	4265374	0.0042	0.0055	0.0072	0.0109	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
105	645791.2	4265374	0.0043	0.0057	0.0074	0.0114	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
106	645801.2	4265374	0.0044	0.0058	0.0076	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
107	645811.2	4265374	0.0046	0.0060	0.0078	0.0123	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
108	645821.2	4265374	0.0047	0.0061	0.0080	0.0128	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
109	645731.2	4265384	0.0037	0.0048	0.0062	0.0088	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
110	645741.2	4265384	0.0038	0.0049	0.0064	0.0092	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
111	645751.2	4265384	0.0039	0.0050	0.0066	0.0095	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
112	645761.2	4265384	0.0040	0.0052	0.0067	0.0099	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
113	645771.2	4265384	0.0041	0.0053	0.0069	0.0103	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
114	645781.2	4265384	0.0042	0.0054	0.0071	0.0107	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
115	645791.2	4265384	0.0043	0.0056	0.0073	0.0111	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
116	645801.2	4265384	0.0044	0.0057	0.0075	0.0116	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
117	645811.2	4265384	0.0045	0.0059	0.0077	0.0121	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
118	645821.2	4265384	0.0046	0.0060	0.0079	0.0125	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
119	645761.2	4265394	0.0040	0.0051	0.0066	0.0097	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
120	645771.2	4265394	0.0041	0.0052	0.0068	0.0101	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
121	645781.2	4265394	0.0042	0.0054	0.0070	0.0105	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
122	645791.2	4265394	0.0043	0.0055	0.0072	0.0109	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
123	645801.2	4265394	0.0044	0.0057	0.0074	0.0113	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
124	645811.2	4265394	0.0045	0.0058	0.0076	0.0118	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
125	645821.2	4265394	0.0046	0.0059	0.0078	0.0122	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
126	647657.9	4263628	0.0014	0.0013	0.0012	0.0013	0.0017	0.0020	0.0023	0.0025	0.0028	0.0031	0.0036	0.0041	0.0050	0.0061	0.0083	0.0111	0.0127
127	647657.9	4263638	0.0014	0.0013	0.0012	0.0013	0.0017	0.0020	0.0023	0.0025	0.0028	0.0031	0.0036	0.0041	0.0050	0.0060	0.0081	0.0107	0.0121
128	647916.2	4263707	0.0009	0.0009	0.0008	0.0009	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0023	0.0026	0.0030	0.0027
129	647926.2	4263707	0.0009	0.0009	0.0008	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0016	0.0018	0.0019	0.0020	0.0022	0.0025	0.0029	0.0026
130	647916.2	4263717	0.0009	0.0009	0.0008	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0022	0.0026	0.0029	0.0027
131	647926.2	4263717	0.0009	0.0009	0.0008	0.0009	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0019	0.0020	0.0022	0.0025	0.0029	0.0026
132	647916.2	4263737	0.0009	0.0009	0.0008	0.0009	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016	0.0018	0.0019	0.0020	0.0022	0.0025	0.0029	0.0026
133	647926.2	4263737	0.0009	0.0009	0.0008	0.0009	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0018	0.0020	0.0022	0.0024	0.0028	0.0025
134	647886.2	4263747	0.0010	0.0009	0.0009	0.0009	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0019	0.0020	0.0022	0.0024	0.0027	0.0031	0.0028
135	647896.2	4263747	0.0009	0.0009	0.0009	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0023	0.0026	0.0030	0.0027
136	647886.2	4263757	0.0010	0.0009	0.0009	0.0009	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0018	0.0020	0.0022	0.0024	0.0027	0.0031	0.0028

137	647896.2	4263757	0.0009	0.0009	0.0009	0.0009	0.0012	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0021	0.0023	0.0026	0.0030	0.0027
138	647414.7	4263742	0.0020	0.0018	0.0016	0.0017	0.0024	0.0028	0.0035	0.0042	0.0050	0.0060	0.0074	0.0088	0.0108	0.0121	0.0116	0.0107	0.0111
139	647444.7	4263742	0.0019	0.0017	0.0016	0.0016	0.0022	0.0025	0.0032	0.0038	0.0045	0.0053	0.0066	0.0078	0.0097	0.0112	0.0115	0.0109	0.0107
140	647414.7	4263752	0.0020	0.0018	0.0016	0.0017	0.0024	0.0028	0.0034	0.0041	0.0050	0.0059	0.0073	0.0086	0.0105	0.0117	0.0113	0.0104	0.0109
141	647444.7	4263752	0.0019	0.0017	0.0016	0.0016	0.0022	0.0025	0.0031	0.0037	0.0044	0.0052	0.0064	0.0076	0.0094	0.0109	0.0111	0.0106	0.0104
142	647414.7	4263772	0.0020	0.0018	0.0016	0.0017	0.0023	0.0027	0.0034	0.0040	0.0048	0.0057	0.0069	0.0081	0.0098	0.0109	0.0106	0.0099	0.0104
143	647424.7	4263772	0.0019	0.0017	0.0016	0.0017	0.0023	0.0027	0.0033	0.0039	0.0046	0.0054	0.0067	0.0078	0.0095	0.0106	0.0105	0.0099	0.0102
144	647434.7	4263772	0.0019	0.0017	0.0016	0.0017	0.0022	0.0026	0.0032	0.0038	0.0045	0.0052	0.0064	0.0075	0.0092	0.0104	0.0105	0.0100	0.0100
145	647444.7	4263772	0.0018	0.0017	0.0015	0.0016	0.0022	0.0025	0.0031	0.0036	0.0043	0.0050	0.0061	0.0073	0.0089	0.0101	0.0104	0.0100	0.0099
146	647414.7	4263782	0.0019	0.0018	0.0016	0.0017	0.0023	0.0027	0.0033	0.0040	0.0047	0.0056	0.0068	0.0079	0.0095	0.0105	0.0103	0.0097	0.0102
147	647424.7	4263782	0.0019	0.0017	0.0016	0.0017	0.0022	0.0027	0.0032	0.0038	0.0046	0.0054	0.0065	0.0077	0.0092	0.0103	0.0102	0.0097	0.0100
148	647434.7	4263782	0.0019	0.0017	0.0016	0.0017	0.0022	0.0026	0.0031	0.0037	0.0044	0.0052	0.0063	0.0074	0.0089	0.0101	0.0102	0.0097	0.0098
149	647444.7	4263782	0.0018	0.0017	0.0015	0.0016	0.0022	0.0025	0.0030	0.0036	0.0043	0.0050	0.0060	0.0071	0.0086	0.0098	0.0101	0.0097	0.0097
150	647492.1	4263780	0.0017	0.0015	0.0014	0.0015	0.0019	0.0022	0.0026	0.0031	0.0036	0.0042	0.0051	0.0059	0.0073	0.0086	0.0095	0.0098	0.0093
151	647502.1	4263780	0.0016	0.0015	0.0014	0.0015	0.0019	0.0021	0.0025	0.0030	0.0035	0.0041	0.0049	0.0057	0.0071	0.0083	0.0093	0.0097	0.0092
152	647492.1	4263790	0.0017	0.0015	0.0014	0.0015	0.0019	0.0021	0.0026	0.0031	0.0036	0.0041	0.0050	0.0058	0.0072	0.0084	0.0092	0.0095	0.0091
153	647502.1	4263790	0.0016	0.0015	0.0014	0.0015	0.0019	0.0021	0.0025	0.0030	0.0035	0.0040	0.0048	0.0056	0.0069	0.0081	0.0091	0.0094	0.0089
154	647535.2	4263796	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0023	0.0027	0.0031	0.0035	0.0042	0.0049	0.0060	0.0071	0.0082	0.0089	0.0085
155	647545.2	4263796	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0022	0.0026	0.0030	0.0034	0.0041	0.0047	0.0058	0.0068	0.0080	0.0088	0.0084
156	647535.2	4263806	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0023	0.0027	0.0031	0.0035	0.0042	0.0048	0.0059	0.0069	0.0080	0.0087	0.0083
157	647545.2	4263806	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0022	0.0026	0.0030	0.0034	0.0040	0.0047	0.0057	0.0067	0.0078	0.0086	0.0082
158	647539.5	4263772	0.0015	0.0014	0.0013	0.0014	0.0018	0.0020	0.0023	0.0027	0.0032	0.0036	0.0043	0.0051	0.0062	0.0074	0.0088	0.0097	0.0093
159	647549.5	4263772	0.0015	0.0014	0.0013	0.0014	0.0018	0.0019	0.0023	0.0027	0.0031	0.0036	0.0042	0.0049	0.0060	0.0072	0.0085	0.0095	0.0093
160	647539.5	4263782	0.0015	0.0014	0.0013	0.0014	0.0017	0.0020	0.0023	0.0027	0.0031	0.0036	0.0043	0.0050	0.0061	0.0072	0.0085	0.0093	0.0089
161	647549.5	4263782	0.0015	0.0014	0.0013	0.0014	0.0017	0.0019	0.0023	0.0027	0.0031	0.0035	0.0041	0.0048	0.0059	0.0070	0.0083	0.0092	0.0089
162	647549.2	4263723	0.0016	0.0015	0.0014	0.0014	0.0019	0.0021	0.0025	0.0029	0.0034	0.0038	0.0046	0.0054	0.0067	0.0081	0.0100	0.0116	0.0115
163	647559.2	4263723	0.0016	0.0014	0.0013	0.0014	0.0019	0.0021	0.0025	0.0029	0.0033	0.0037	0.0044	0.0052	0.0064	0.0078	0.0097	0.0114	0.0114
164	647549.2	4263733	0.0016	0.0015	0.0013	0.0014	0.0019	0.0021	0.0025	0.0029	0.0033	0.0038	0.0045	0.0053	0.0066	0.0079	0.0097	0.0111	0.0110
165	647559.2	4263733	0.0015	0.0014	0.0013	0.0014	0.0019	0.0021	0.0025	0.0028	0.0032	0.0037	0.0044	0.0051	0.0063	0.0076	0.0094	0.0109	0.0109
166	647539.5	4263752	0.0016	0.0015	0.0013	0.0014	0.0018	0.0020	0.0024	0.0028	0.0033	0.0038	0.0045	0.0053	0.0065	0.0078	0.0093	0.0104	0.0101
167	647549.5	4263752	0.0015	0.0014	0.0013	0.0014	0.0018	0.0020	0.0024	0.0028	0.0032	0.0037	0.0044	0.0051	0.0063	0.0075	0.0091	0.0103	0.0101
168	647539.5	4263762	0.0016	0.0014	0.0013	0.0014	0.0018	0.0020	0.0024	0.0028	0.0033	0.0037	0.0044	0.0052	0.0064	0.0076	0.0090	0.0100	0.0097
169	647549.5	4263762	0.0015	0.0014	0.0013	0.0014	0.0018	0.0020	0.0023	0.0027	0.0032	0.0036	0.0043	0.0050	0.0061	0.0073	0.0088	0.0099	0.0097
170	647480	4263738	0.0018	0.0016	0.0015	0.0016	0.0021	0.0023	0.0028	0.0034	0.0040	0.0047	0.0057	0.0068	0.0086	0.0102	0.0113	0.0114	0.0107
171	647480	4263718	0.0018	0.0016	0.0015	0.0016	0.0021	0.0024	0.0029	0.0035	0.0042	0.0049	0.0060	0.0072	0.0091	0.0109	0.0122	0.0123	0.0115
172	647480	4263728	0.0018	0.0016	0.0015	0.0016	0.0021	0.0023	0.0029	0.0035	0.0041	0.0048	0.0059	0.0070	0.0088	0.0105	0.0117	0.0118	0.0110
173	646052.1	4262282	0.0009	0.0009	0.0009	0.0008	0.0026	0.0026	0.0026	0.0027	0.0028	0.0029	0.0031	0.0032	0.0041	0.0051	0.0055	0.0059	0.0065
174	646062.1	4262282	0.0009	0.0009	0.0009	0.0008	0.0026	0.0026	0.0026	0.0027	0.0028	0.0030	0.0031	0.0033	0.0042	0.0052	0.0056	0.0060	0.0066
175	646072.1	4262282	0.0009	0.0009	0.0009	0.0008	0.0027	0.0026	0.0027	0.0027	0.0029	0.0030	0.0032	0.0033	0.0043	0.0053	0.0056	0.0061	0.0068
176	646052.1	4262292	0.0009	0.0009	0.0009	0.0008	0.0026	0.0026	0.0026	0.0027	0.0028	0.0029	0.0031	0.0033	0.0042	0.0052	0.0056	0.0061	0.0068
177	646062.1	4262292	0.0009	0.0009	0.0009	0.0008	0.0027	0.0026	0.0026	0.0027	0.0029	0.0030	0.0031	0.0033	0.0043	0.0053	0.0057	0.0062	0.0069
178	646072.1	4262292	0.0009	0.0009	0.0009	0.0008	0.0027	0.0027	0.0027	0.0028	0.0029	0.0030	0.0032	0.0034	0.0044	0.0054	0.0058	0.0063	0.0070
179	645776.7	4262282	0.0010	0.0009	0.0009	0.0008	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0019	0.0020	0.0023	0.0028	0.0032	0.0036	0.0042
180	645786.7	4262282	0.0010	0.0009	0.0009	0.0008	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0020	0.0020	0.0024	0.0028	0.0032	0.0037	0.0043
181	645776.7	4262292	0.0010	0.0009	0.0009	0.0008	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0020	0.0020	0.0024	0.0028	0.0032	0.0036	0.0043
182	645786.7	4262292	0.0010	0.0009	0.0009	0.0008	0.0019	0.0018	0.0018	0.0018	0.0019	0.0019	0.0020	0.0020	0.0024	0.0029	0.0033	0.0037	0.0044
183	646321.4	4262580	0.0012	0.0012	0.0011	0.0010	0.0056	0.0057	0.0062	0.0070	0.0082	0.0096	0.0114	0.0139	0.0311	0.0730	0.0334	0.0142	0.0089
184	646331.4	4262580	0.0012	0.0012	0.0011	0.0010	0.0058	0.0058	0.0063	0.0072	0.0085	0.0099	0.0119	0.0146	0.0336	0.0752	0.0290	0.0132	0.0084

185	646341.4	4262580	0.0012	0.0012	0.0012	0.0010	0.0059	0.0060	0.0065	0.0074	0.0088	0.0103	0.0124	0.0154	0.0364	0.0761	0.0254	0.0122	0.0080
186	646321.4	4262590	0.0012	0.0012	0.0012	0.0010	0.0057	0.0058	0.0063	0.0071	0.0085	0.0098	0.0118	0.0145	0.0338	0.0848	0.0332	0.0141	0.0088
187	646331.4	4262590	0.0012	0.0012	0.0012	0.0010	0.0059	0.0059	0.0064	0.0073	0.0088	0.0102	0.0124	0.0153	0.0367	0.0864	0.0287	0.0130	0.0083
188	646341.4	4262590	0.0012	0.0012	0.0012	0.0010	0.0060	0.0061	0.0066	0.0076	0.0091	0.0107	0.0129	0.0162	0.0399	0.0871	0.0250	0.0121	0.0079
189	646323	4262548	0.0012	0.0011	0.0011	0.0010	0.0054	0.0055	0.0059	0.0066	0.0076	0.0088	0.0103	0.0123	0.0247	0.0483	0.0311	0.0144	0.0091
190	646333	4262548	0.0012	0.0011	0.0011	0.0010	0.0055	0.0056	0.0060	0.0067	0.0079	0.0091	0.0107	0.0128	0.0263	0.0502	0.0280	0.0134	0.0086
191	646370.6	4262561	0.0012	0.0012	0.0011	0.0010	0.0061	0.0062	0.0068	0.0077	0.0091	0.0108	0.0130	0.0163	0.0378	0.0592	0.0188	0.0103	0.0070
192	646380.6	4262561	0.0012	0.0012	0.0011	0.0010	0.0063	0.0064	0.0070	0.0079	0.0094	0.0112	0.0136	0.0172	0.0406	0.0575	0.0171	0.0096	0.0067
193	646025.1	4262309	0.0009	0.0009	0.0009	0.0008	0.0026	0.0025	0.0025	0.0026	0.0028	0.0029	0.0030	0.0032	0.0040	0.0050	0.0057	0.0063	0.0069
194	646090.8	4262311	0.0009	0.0009	0.0009	0.0008	0.0028	0.0028	0.0028	0.0029	0.0031	0.0032	0.0034	0.0036	0.0047	0.0059	0.0063	0.0069	0.0079
195	646090.8	4262321	0.0009	0.0009	0.0009	0.0008	0.0028	0.0028	0.0028	0.0029	0.0031	0.0032	0.0034	0.0037	0.0048	0.0061	0.0065	0.0072	0.0083
196	646026.3	4262282	0.0009	0.0009	0.0009	0.0008	0.0025	0.0025	0.0025	0.0026	0.0027	0.0028	0.0029	0.0031	0.0039	0.0048	0.0053	0.0058	0.0062
197	646036.3	4262282	0.0009	0.0009	0.0009	0.0008	0.0025	0.0025	0.0025	0.0026	0.0027	0.0028	0.0030	0.0031	0.0039	0.0049	0.0054	0.0058	0.0063
198	646026.3	4262292	0.0009	0.0009	0.0009	0.0008	0.0025	0.0025	0.0025	0.0026	0.0027	0.0028	0.0029	0.0031	0.0039	0.0049	0.0054	0.0060	0.0065
199	646036.3	4262292	0.0009	0.0009	0.0009	0.0008	0.0026	0.0025	0.0025	0.0026	0.0028	0.0029	0.0030	0.0032	0.0040	0.0050	0.0055	0.0060	0.0066

Concentration output from AERMOD, with 1 g/s emission rate for each volume source

Source abbreviation examples: 8Y01 = Aspen VIII Year 1, 9EY03 = Aspen IX East Year 3, 9WY11 = Aspen IX West Year 11

X	Y	8Y01	8Y02	8Y03	8Y04	9EY01	9EY02	9EY03	9EY04	9EY05	9EY06	9EY07	9EY08	9EY09	9EY10	9EY11	9EY12	9EY13	9WY01	9WY02	9WY03	9WY04	9WY05	9WY06	9WY07	9WY08	9WY09	9WY10	9WY11	9WY12	9WY13
645773	4263870	19.061	20.062	20.84	15.529	3.7384	3.4068	3.2533	3.3976	3.4774	3.7852	3.7177	3.6139	3.5082	3.4577	3.3504	3.287	3.9572	2.8648	3.0249	3.1639	3.3842	3.5746	3.5444	3.5791	3.5623	4.1405	4.8094	5.9315	6.5501	7.0669
645831	4263870	20.735	21.813	21.975	15.866	4.0702	3.6446	3.4194	3.541	3.6172	3.9478	3.8921	3.799	3.6962	3.6534	3.5399	3.4729	4.227	3.1357	3.3289	3.4913	3.7393	3.937	3.8734	3.8841	3.8434	4.4513	5.1988	6.4318	7.0407	7.4924
645549.5	4263918.84	14.285	15.498	16.577	13.334	2.7851	2.682	2.6347	2.7621	2.8217	3.0385	2.9805	2.896	2.8172	2.7759	2.696	2.6499	3.1344	2.0785	2.1783	2.2469	2.3602	2.4709	2.4717	2.5182	2.5455	3.0002	3.4951	4.1614	4.5512	4.9503
645545.8	4263871.02	13.65	14.715	15.62	12.63	2.8297	2.8044	2.7876	2.9418	2.9968	3.1965	3.0965	2.9774	2.8806	2.8208	2.7403	2.6896	3.116	2.083	2.1949	2.269	2.3824	2.4925	2.4941	2.5438	2.5751	3.0526	3.5958	4.32	4.7483	5.1828
645701.2	4265303.79	18.373	23.842	31.486	43.119	2.1125	2.087	2.0019	1.9745	1.9234	1.9298	1.8551	1.7942	1.7385	1.7059	1.6651	1.6365	1.8709	1.4151	1.408	1.4023	1.4179	1.4272	1.401	1.3899	1.3728	1.4553	1.5247	1.6288	1.664	1.6879
645711.2	4265303.79	18.832	24.499	32.44	45.016	2.1228	2.0988	2.0158	1.9898	1.9389	1.9457	1.8702	1.8086	1.7522	1.7194	1.6782	1.6494	1.8872	1.423	1.4162	1.4103	1.4259	1.4349	1.4082	1.3966	1.3791	1.461	1.5296	1.6334	1.6681	1.6915
645721.2	4265303.79	19.307	25.182	33.427	47.018	2.1335	2.1106	2.0298	2.0053	1.9547	1.9621	1.8858	1.8234	1.7663	1.7333	1.6918	1.6628	1.9039	1.4312	1.4246	1.4186	1.434	1.4427	1.4155	1.4035	1.3855	1.4667	1.5345	1.638	1.6722	1.695
645731.2	4265303.79	19.8	25.891	34.449	49.138	2.1443	2.1225	2.0437	2.0209	1.9707	1.9787	1.9016	1.8385	1.7808	1.7474	1.7056	1.6764	1.9211	1.4396	1.4332	1.4269	1.4422	1.4505	1.4228	1.4103	1.3919	1.4723	1.5394	1.6426	1.6763	1.6985
645741.2	4265303.79	20.307	26.625	35.507	51.386	2.1553	2.1342	2.0575	2.0364	1.9867	1.9955	1.9177	1.8538	1.7954	1.7618	1.7196	1.6902	1.9386	1.4481	1.4418	1.4353	1.4503	1.4583	1.43	1.4171	1.3982	1.4779	1.5443	1.6471	1.6803	1.702
645751.2	4265303.79	20.829	27.383	36.601	53.774	2.1665	2.1458	2.0711	2.0519	2.0028	2.0123	1.934	1.8694	1.8102	1.7763	1.7338	1.7042	1.9564	1.4568	1.4506	1.4438	1.4585	1.4661	1.4373	1.4238	1.4045	1.4834	1.5491	1.6515	1.6842	1.7053
645761.2	4265303.79	21.364	28.165	37.732	56.305	2.1778	2.1574	2.0846	2.0673	2.0189	2.0293	1.9504	1.8851	1.8252	1.791	1.7481	1.7183	1.9744	1.4656	1.4593	1.4522	1.4667	1.4738	1.4444	1.4305	1.4107	1.4888	1.5538	1.6558	1.688	1.7086
645771.2	4265303.79	21.917	28.973	38.9	58.986	2.1893	2.1689	2.0979	2.0826	2.035	2.0464	1.967	1.901	1.8404	1.8059	1.7626	1.7326	1.9926	1.4745	1.4682	1.4607	1.4748	1.4815	1.4515	1.4371	1.4169	1.4942	1.5584	1.66	1.6917	1.7118
645781.2	4265303.79	22.486	29.812	40.113	61.846	2.2008	2.1801	2.1108	2.0975	2.0509	2.0634	1.9835	1.9168	1.8555	1.8207	1.777	1.7469	2.0108	1.4834	1.477	1.469	1.4828	1.489	1.4585	1.4436	1.4229	1.4993	1.5629	1.6641	1.6953	1.7148
645791.2	4265303.79	23.072	30.68	41.369	64.88	2.2124	2.1913	2.1235	2.1123	2.0666	2.0803	2.0001	1.9328	1.8707	1.8356	1.7915	1.7611	2.0292	1.4924	1.4858	1.4774	1.4907	1.4964	1.4653	1.4499	1.4288	1.5044	1.5673	1.6681	1.6987	1.7176
645801.2	4265303.79	23.677	31.577	42.662	68.084	2.2242	2.2025	2.1361	2.1269	2.0824	2.0973	2.0168	1.9489	1.8861	1.8507	1.8062	1.7756	2.0478	1.5014	1.4946	1.4857	1.4986	1.5037	1.4721	1.4562	1.4346	1.5094	1.5716	1.6719	1.702	1.7204
645811.2	4265303.79	24.3	32.504	43.992	71.459	2.2362	2.2137	2.1485	2.1414	2.098	2.1144	2.0337	1.9652	1.9017	1.8661	1.821	1.7903	2.0667	1.5106	1.5035	1.494	1.5065	1.511	1.4788	1.4624	1.4404	1.5143	1.5758	1.6757	1.7053	1.7231
645821.2	4265303.79	24.943	33.461	45.357	75.008	2.2485	2.225	2.1608	2.1558	2.1136	2.1314	2.0507	1.9816	1.9175	1.8816	1.8361	1.8051	2.0858	1.5199	1.5124	1.5023	1.5143	1.5182	1.4854	1.4686	1.4462	1.5192	1.58	1.6794	1.7084	1.7257
645701.2	4265313.79	18.25	23.619	31.07	42.565	2.1023	2.0781	1.9954	1.9691	1.9187	1.9252	1.8509	1.7903	1.7349	1.7026	1.662	1.6336	1.8674	1.4084	1.4016	1.3958	1.4113	1.4204	1.3944	1.3832	1.3662	1.4476	1.516	1.6189	1.6536	1.6771
645711.2	4265313.79	18.7	24.261	32	44.414	2.1125	2.0897	2.009	1.9842	1.934	1.9411	1.866	1.8046	1.7485	1.7159	1.675	1.6465	1.8836	1.4163	1.4097	1.4039	1.4192	1.428	1.4014	1.3899	1.3724	1.4532	1.5209	1.6234	1.6577	1.6806
645721.2	4265313.79	19.167	24.93	32.962	46.363	2.123	2.1013	2.0227	1.9995	1.9497	1.9573	1.8815	1.8194	1.7626	1.7297	1.6885	1.6597	1.9003	1.4245	1.4181	1.412	1.4272	1.4357	1.4086	1.3966	1.3787	1.4588	1.5258	1.628	1.6617	1.6841
645731.2	4265313.79	19.649	25.624	33.957	48.422	2.1338	2.1129	2.0364	2.0148	1.9655	1.9738	1.8973	1.8344	1.7769	1.7438	1.7023	1.6733	1.9175	1.4328	1.4266	1.4203	1.4353	1.4435	1.4158	1.4034	1.385	1.4644	1.5306	1.6325	1.6657	1.6876
645741.2	4265313.79	20.147	26.342	34.985	50.6	2.1447	2.1244	2.0499	2.0302	1.9814	1.9904	1.9133	1.8497	1.7915	1.7581	1.7162	1.6871	1.9349	1.4413	1.4351	1.4286	1.4434	1.4512	1.423	1.4101	1.3913	1.4699	1.5354	1.6369	1.6696	1.691
645751.2	4265313.79	20.657	27.082	36.048	52.908	2.1558	2.1358	2.0632	2.0454	1.9973	2.0072	1.9294	1.8651	1.8062	1.7726	1.7303	1.701	1.9525	1.4499	1.4438	1.437	1.4515	1.4588	1.4301	1.4167	1.3975	1.4753	1.5401	1.6412	1.6735	1.6943
645761.2	4265313.79	21.182	27.845	37.146	55.35	2.167	2.1471	2.0764	2.0605	2.0132	2.024	1.9457	1.8808	1.8211	1.7872	1.7445	1.715	1.9705	1.4587	1.4525	1.4453	1.4595	1.4664	1.4372	1.4233	1.4036	1.4807	1.5447	1.6455	1.6772	1.6975
645771.2	4265313.79	21.722	28.633	38.277	57.931	2.1785	2.1585	2.0895	2.0755	2.0291	2.041	1.9622	1.8966	1.8363	1.802	1.7589	1.7292	1.9886	1.4675	1.4613	1.4537	1.4676	1.474	1.4442	1.4298	1.4097	1.4859	1.5493	1.6497	1.6809	1.7007
645781.2	4265313.79	22.279	29.45	39.453	60.677	2.1899	2.1696	2.1021	2.0902	2.0447	2.0577	1.9786	1.9123	1.8513	1.8168	1.7733	1.7434	2.0068	1.4764	1.47	1.462	1.4755	1.4814	1.4511	1.4362	1.4156	1.491	1.5537	1.6537	1.6844	1.7036
645791.2	4265313.79	22.852	30.295	40.667	63.584	2.2015	2.1806	2.1146	2.1047	2.0603	2.0745	1.9951	1.9282	1.8665	1.8316	1.7877	1.7576	2.025	1.4853	1.4787	1.4702	1.4833	1.4887	1.4578	1.4425	1.4214	1.496	1.558	1.6576	1.6878	1.7065
645801.2	4265313.79	23.442	31.168	41.915	66.644	2.2132	2.1916	2.1269	2.1191	2.0758	2.0913	2.0117	1.9442	1.8818	1.8466	1.8023	1.772	2.0435	1.4943	1.4875	1.4785	1.4911	1.4959	1.4645	1.4487	1.4272	1.5009	1.5623	1.6614	1.6911	1.7092
645811.2	4265313.79	24.051	32.068	43.198	69.862	2.2252	2.2027	2.1391	2.1333	2.0912	2.1081	2.0284	1.9604	1.8973	1.8619	1.8171	1.7865	2.0623	1.5034	1.4963	1.4867	1.4988	1.5031	1.4711	1.4548	1.4329	1.5058	1.5664	1.6651	1.6943	1.7118
645821.2	4265313.79	24.677	32.997	44.514	73.235	2.2374	2.2138	2.1511	2.1474	2.1065	2.125	2.0452	1.9768	1.913	1.8773	1.8321	1.8013	2.0814	1.5126	1.5051	1.4949	1.5065	1.5102	1.4777	1.4609	1.4386	1.5106	1.5705	1.6687	1.6974	1.7144
645701.2	4265323.79	18.125	23.397	30.664	42.023	2.0921	2.0692	1.9888	1.9637	1.914	1.9207	1.8468	1.7865	1.7312	1.6992	1.6589	1.6307	1.8639	1.4019	1.3952	1.3895	1.4047	1.4137	1.3877	1.3766	1.3596	1.44	1.5075	1.6091	1.6433	1.6665
645711.2	4265323.79	18.567	24.027	31.571	43.825	2.1022	2.0805	2.0022	1.9786	1.9292	1.9364	1.8618	1.8007	1.7448	1.7125	1.6719	1.6435	1.88	1.4097	1.4033	1.3974	1.4125	1.4212	1.3947	1.3832	1.3658	1.4455	1.5122	1.6136	1.6473	1.6699
645721.2	4265323.79	19.025	24.681	32.508	45.719	2.1127	2.0919	2.0156	1.9936	1.9446	1.9525	1.8772	1.8154	1.7588	1.7262	1.6852	1.6567	1.8967	1.4178	1.4116	1.4055	1.4205	1.4288	1.4018	1.3898	1.372	1.4511	1.5171	1.618	1.6513	1.6734
645731.2	4265323.79	19.498	25.36	33.476	47.717	2.1234	2.1033	2.029	2.0087	1.9603	1.9689	1.8929	1.8303	1.7731	1.7402	1.6989	1.6702	1.9138	1.4261	1.42	1.4137	1.4285	1.4364	1.409	1.3965	1.3782	1.4565	1.5218	1.6225	1.6552	1.6768
645741.2	4265323.79	19.986	26.061	34.476	49.827	2.1342	2.1146	2.0422	2.0238	1.976	1.9854	1.9088	1.8455	1.7876	1.7545	1.7128	1.6839	1.9311	1.4346	1.4285	1.422	1.4365	1.444	1.416	1.4031	1.3844	1.462	1.5266	1.6268	1.6591	1.6802
645751.2	4265323.79	20.486	26.783	35.508	52.057	2.1452	2.1258	2.0553	2.0388	1.9917	2.002	1.9248	1.8609	1.8023	1.7688	1.7268	1.6977	1.9487	1.4431	1.4371	1.4302	1.4444	1.4516	1.4231	1.4096	1.3905	1.4673	1.5312	1.6311	1.6629	1.6834
645761.2	4265323.79	20.999	27.528	36.573	54.412	2.1564	2.137	2.0683	2.0537	2.0074	2.0187	1.9411	1.8765	1.8171	1.7834	1.7409	1.7117	1.9666	1.4518	1.4457	1.4385	1.4524	1.4591	1.4301	1.4162	1.3965	1.4726	1.5358	1.6353	1.6666	1.6866
645771.2	4265323.79	21.528	28.297	37.67	56.895	2.1678	2.1481	2.081	2.0684	2.0231	2.0355	1.9575	1.8922	1.8321	1.7981	1.7553	1.7258	1.9846	1.4606	1.4544	1.4468	1.4604	1.4666	1.437	1.4226	1.4025	1.4778	1.5403	1.6394	1.6702	1.6897
645781.2	4265323.79	22.072	29.092	38.807	59.531	2.1791	2.159	2.0934	2.0829	2.0385	2.0521	1.9737	1.9079	1.8471	1.8128	1.7696	1.7399	2.0027	1.4694	1.4631	1.455	1.4682	1.4739	1.4437	1.4289	1.4084	1.4828	1.5446	1.6434	1.6736	1.6926
645791.2	4265323.79	22.632	29.914	39.981	62.314	2.1906	2.1699	2.1056	2.0971	2.0538	2.0686	1.9901	1.9236	1.8622	1.8276	1.7839	1.754	2.0208	1.4782	1.4717	1.4631	1.4759	1.4811	1.4504	1.4351	1.4141	1.4877	1.5489	1.6472	1.677	1.6954
645801.2	4265323.79	23.208	30.763	41.187	65.239	2.2023	2.1808	2.1177	2.1112	2.0691	2.0852	2.0065	1.9396	1.8774	1.8425	1.7984	1.7683	2.0393	1.4872	1.4803	1.4713	1.4836	1.4882	1.457	1.4412	1.4198	1.4926	1.5531	1.6509	1.6802	1.6981
645811.2	4265323.79	23.802	31.638	42.424	68.305	2.2143	2.1917	2.1296	2.1251	2.0843	2.1018	2.0231	1.9556	1.8929	1.8577	1.8131	1.7828	2.058	1.4962	1.489	1.4794	1.4912	1.4953	1.4635	1.4472	1.4255	1.4973	1.5572	1.6546	1.6834	1.7007
645821.2	4265323.79	24.413	32.539	43.692	71.513	2.2264	2.2027	2.1414	2.1389	2.0994	2.1185	2.0398	1.9719	1.9085	1.8731	1.828	1.7975	2.0769	1.5053	1.4978	1.4875	1.4988	1.5023	1.47	1.4532	1.4311	1.5021	1.5612	1.6582	1.6865	1.7032
645701.2	4265333.79	17.998	23.175	30.268	41.498	2.0818	2.0602	1.982	1.9581	1.9091	1.916	1.8425	1.7824	1.7275	1.6957	1.6556	1.6276	1.8602	1.3953	1.3888	1.3831	1.3981	1.4069	1.3811	1.3699	1.353	1.4324	1.4989	1.5993	1.6331	1.6559
645711.2	4265333.79	18.433	23.793	31.151	43.247	2.092	2.0713	1.9952	1.9728	1.9242	1.9317	1.8575	1.7967	1.7411	1.709	1.6686	1.6405	1.8764	1.4031	1.3969	1.391	1.4059	1.4144	1.3881	1.3765	1.3591	1.4379	1.5037	1.6038	1.637	1.6593
645721.2	4265333.79	18.882	24.434	32.064	45.086	2.1024	2.0825	2.0084	1.9877	1.9396	1.9477	1.8729	1.8114	1.755	1.7227	1.682	1.6536	1.8931	1.4112	1.4051	1.3991	1.4138	1.4219	1.3951	1.3831	1.3653	1.4433	1.5084	1.6082	1.641	1.6628
645731.2	4265333.79	19.346	25.097	33.006	47.023	2.113	2.0937	2.0215	2.0026	1.9551	1.964	1.8885	1.8263	1.7693	1.7366	1.6956	1.6671	1.9101	1.4195	1.4135	1.4072	1.4217	1.4294	1.4021	1.3896	1.3714	1.4488	1.5132	1.6126	1.6449	1.6661
645741.2	4265333.79	19.824	25.782	33.978	49.065	2.1238	2.1048	2.0345	2.0174	1.9706	1.9803	1.9043	1.8414	1.7837	1.7508	1.7093	1.6807	1.9274	1.4279	1.4219	1.4153	1.4296	1.437	1.4091	1.3962	1.3775	1.4541	1.5178	1.6169	1.6487	1.6695
645751.2	4265333.79	20.313	26.488	34.98	51.219	2.1347	2.1158	2.0474	2.0322	1.9861	1.9968	1.9203	1.8567	1.7983	1.7651	1.7233	1.6944	1.9449	1.4364	1.4304	1.4235	1.4375	1.4444	1.4161	1.4026	1.3836	1.4594	1.5224	1.6211	1.6524	1.6727
645761.2	4265333.79	20.816	27.214	36.013	53.489	2.1459	2.1268	2.06	2.0468	2.0016	2.0133	1.9364	1.8722	1.8131	1.7796	1.7374	1.7083	1.9627	1.445	1.439	1.4317	1.4454	1.4518	1.4229	1.4091	1.3895	1.4646	1.5269	1.6252	1.6561	1.6758
645771.2	4265333.79	21.333	27.963	37.075	55.877	2.1572	2.1377	2.0725	2.0613	2.0171	2.0299	1.9527	1.8878	1.828	1.7942	1.7516	1.7224	1.9807	1.4538	1.4476	1.4399	1.4532	1.4592	1.4298	1.4154	1.3955	1.4697	1.5313	1.6293	1.6596	1.6789
645781.2	4265333.79	21.864	28.738	38.176	58.406	2.1685	2.1485	2.0847	2.0754	2.0323	2.0463	1.9689	1.9034	1.8429	1.8088	1.7658	1.7364	1.9986	1.4625	1.4562	1.448	1.4609	1.4664	1.4364	1.4216	1.4012	1.4746	1.5356	1.6332	1.663	1.6817
645791.2	4265333.79	22.412	29.538	39.311	61.072	2.1799	2.1592	2.0966	2.0894	2.0474	2.0627	1.9851	1.9191	1.8579	1.8235	1.7801	1.7504	2.0167	1.4713	1.4647	1.4561	1.4685	1.4735	1.443	1.4277	1.4069	1.4795	1.5398	1.6369	1.6663	1.6845

645801.2	4265333.79	22.975	30.363	40.476	63.866	2.1916	2.17	2.1084	2.1032	2.0624	2.0791	2.0014	1.9349	1.8731	1.8384	1.7945	1.7647	2.035	1.4801	1.4733	1.4641	1.4761	1.4805	1.4495	1.4338	1.4125	1.4843	1.5439	1.6406	1.6695	1.6872
645811.2	4265333.79	23.554	31.212	41.669	66.789	2.2035	2.1808	2.1201	2.1169	2.0773	2.0955	2.0178	1.9509	1.8884	1.8535	1.8092	1.7791	2.0536	1.4891	1.4819	1.4721	1.4837	1.4875	1.4559	1.4397	1.4181	1.489	1.548	1.6442	1.6726	1.6897
645821.2	4265333.79	24.15	32.087	42.891	69.839	2.2156	2.1917	2.1317	2.1304	2.0921	2.1119	2.0343	1.967	1.904	1.8688	1.824	1.7937	2.0724	1.4981	1.4905	1.4802	1.4912	1.4944	1.4623	1.4456	1.4236	1.4936	1.5519	1.6478	1.6757	1.6922
645701.2	4265343.79	17.87	22.955	29.879	40.98	2.0717	2.0511	1.9752	1.9524	1.9042	1.9113	1.8383	1.7784	1.7237	1.6921	1.6523	1.6245	1.8566	1.3888	1.3824	1.3768	1.3916	1.4002	1.3745	1.3633	1.3465	1.4249	1.4905	1.5897	1.623	1.6454
645711.2	4265343.79	18.297	23.561	30.74	42.677	2.0818	2.0621	1.9882	1.967	1.9193	1.927	1.8533	1.7928	1.7373	1.7055	1.6653	1.6374	1.8728	1.3966	1.3905	1.3847	1.3993	1.4076	1.3814	1.3698	1.3526	1.4303	1.4952	1.5941	1.6269	1.6489
645721.2	4265343.79	18.739	24.188	31.629	44.461	2.0922	2.0731	2.0012	1.9817	1.9345	1.9429	1.8686	1.8074	1.7513	1.7191	1.6787	1.6506	1.8895	1.4047	1.3987	1.3927	1.4071	1.415	1.3884	1.3764	1.3587	1.4357	1.4999	1.5985	1.6308	1.6523
645731.2	4265343.79	19.193	24.837	32.545	46.339	2.1028	2.0841	2.014	1.9964	1.9498	1.959	1.8841	1.8222	1.7654	1.733	1.6922	1.6639	1.9064	1.4129	1.407	1.4007	1.4149	1.4225	1.3953	1.3828	1.3647	1.441	1.5046	1.6028	1.6346	1.6556
645741.2	4265343.79	19.661	25.506	33.49	48.314	2.1135	2.095	2.0268	2.011	1.9651	1.9753	1.8999	1.8373	1.7798	1.7471	1.7059	1.6775	1.9237	1.4213	1.4154	1.4088	1.4228	1.4299	1.4022	1.3893	1.3707	1.4463	1.5091	1.607	1.6384	1.6588
645751.2	4265343.79	20.141	26.194	34.463	50.393	2.1244	2.1058	2.0393	2.0254	1.9804	1.9916	1.9157	1.8525	1.7943	1.7613	1.7197	1.6911	1.9411	1.4297	1.4238	1.4169	1.4306	1.4373	1.4091	1.3957	1.3767	1.4515	1.5137	1.6112	1.6421	1.662
645761.2	4265343.79	20.632	26.902	35.464	52.58	2.1354	2.1167	2.0518	2.0398	1.9957	2.0079	1.9317	1.8679	1.809	1.7757	1.7338	1.7049	1.9587	1.4383	1.4323	1.425	1.4384	1.4446	1.4159	1.402	1.3826	1.4566	1.5181	1.6152	1.6456	1.6651
645771.2	4265343.79	21.138	27.632	36.494	54.876	2.1467	2.1275	2.064	2.0541	2.011	2.0244	1.9479	1.8834	1.8239	1.7904	1.748	1.7189	1.9766	1.447	1.4408	1.4331	1.4461	1.4519	1.4226	1.4083	1.3884	1.4616	1.5225	1.6192	1.6492	1.6681
645781.2	4265343.79	21.658	28.387	37.559	57.304	2.1579	2.1381	2.0759	2.068	2.026	2.0406	1.9639	1.8989	1.8387	1.8049	1.7621	1.7328	1.9945	1.4556	1.4493	1.4411	1.4537	1.459	1.4292	1.4144	1.3941	1.4665	1.5267	1.6231	1.6525	1.671
645791.2	4265343.79	22.192	29.165	38.656	59.856	2.1693	2.1486	2.0876	2.0816	2.0408	2.0568	1.98	1.9145	1.8537	1.8195	1.7763	1.7468	2.0125	1.4643	1.4578	1.4491	1.4613	1.466	1.4357	1.4204	1.3997	1.4713	1.5308	1.6268	1.6557	1.6737
645801.2	4265343.79	22.742	29.967	39.78	62.526	2.1809	2.1593	2.0992	2.0952	2.0556	2.073	1.9962	1.9302	1.8687	1.8343	1.7906	1.761	2.0307	1.4731	1.4663	1.457	1.4687	1.4729	1.4421	1.4264	1.4053	1.476	1.5349	1.6304	1.6589	1.6763
645811.2	4265343.79	23.307	30.792	40.932	65.312	2.1928	2.17	2.1106	2.1086	2.0703	2.0891	2.0125	1.9461	1.884	1.8494	1.8052	1.7753	2.0492	1.482	1.4748	1.4649	1.4762	1.4798	1.4484	1.4323	1.4108	1.4807	1.5389	1.634	1.662	1.6789
645821.2	4265343.79	23.888	31.641	42.109	68.214	2.2048	2.1808	2.122	2.1218	2.0849	2.1053	2.0288	1.9621	1.8994	1.8646	1.8199	1.7898	2.0679	1.491	1.4833	1.4729	1.4836	1.4866	1.4547	1.4381	1.4162	1.4852	1.5428	1.6375	1.665	1.6813
645701.2	4265353.79	17.74	22.735	29.498	40.47	2.0616	2.042	1.9682	1.9466	1.8992	1.9065	1.834	1.7744	1.7199	1.6885	1.6489	1.6214	1.8529	1.3823	1.3761	1.3705	1.3851	1.3934	1.3679	1.3568	1.34	1.4174	1.4821	1.5801	1.6129	1.635
645711.2	4265353.79	18.161	23.33	30.337	42.115	2.0718	2.0529	1.9811	1.9612	1.9143	1.9223	1.8491	1.7888	1.7336	1.702	1.6621	1.6344	1.8693	1.3902	1.3842	1.3784	1.3928	1.4009	1.3748	1.3633	1.3461	1.4228	1.4868	1.5845	1.6168	1.6385
645721.2	4265353.79	18.595	23.944	31.202	43.844	2.0821	2.0637	1.9939	1.9757	1.9294	1.9381	1.8643	1.8034	1.7475	1.7156	1.6754	1.6475	1.8859	1.3982	1.3924	1.3863	1.4005	1.4083	1.3817	1.3697	1.3521	1.4281	1.4915	1.5888	1.6207	1.6418
645731.2	4265353.79	19.04	24.578	32.094	45.663	2.0926	2.0745	2.0065	1.9901	1.9445	1.9541	1.8798	1.8182	1.7616	1.7294	1.6888	1.6608	1.9028	1.4064	1.4006	1.3943	1.4083	1.4156	1.3886	1.3761	1.3581	1.4334	1.496	1.5931	1.6245	1.6451
645741.2	4265353.79	19.498	25.231	33.011	47.573	2.1033	2.0852	2.019	2.0045	1.9596	1.9702	1.8954	1.8332	1.7759	1.7434	1.7024	1.6742	1.9199	1.4147	1.4089	1.4023	1.416	1.4229	1.3954	1.3825	1.364	1.4386	1.5006	1.5972	1.6282	1.6483
645751.2	4265353.79	19.967	25.903	33.956	49.58	2.1141	2.0959	2.0313	2.0187	1.9747	1.9863	1.9112	1.8483	1.7904	1.7576	1.7162	1.6878	1.9372	1.4231	1.4173	1.4103	1.4237	1.4302	1.4022	1.3888	1.3699	1.4437	1.505	1.6013	1.6318	1.6515
645761.2	4265353.79	20.448	26.593	34.927	51.686	2.1251	2.1066	2.0434	2.0328	1.9898	2.0025	1.9271	1.8636	1.805	1.7719	1.7302	1.7016	1.9548	1.4316	1.4257	1.4183	1.4314	1.4375	1.4089	1.395	1.3757	1.4487	1.5094	1.6053	1.6353	1.6545
645771.2	4265353.79	20.943	27.305	35.924	53.893	2.1363	2.1172	2.0554	2.0468	2.0049	2.0188	1.9431	1.8791	1.8198	1.7865	1.7443	1.7155	1.9726	1.4402	1.4341	1.4263	1.4391	1.4446	1.4156	1.4012	1.3815	1.4537	1.5137	1.6093	1.6388	1.6575
645781.2	4265353.79	21.451	28.039	36.955	56.222	2.1475	2.1277	2.0671	2.0604	2.0196	2.0348	1.959	1.8945	1.8346	1.8009	1.7583	1.7293	1.9904	1.4488	1.4425	1.4342	1.4466	1.4517	1.422	1.4073	1.3871	1.4585	1.5179	1.6131	1.6421	1.6603
645791.2	4265353.79	21.973	28.796	38.015	58.666	2.1588	2.1381	2.0786	2.0738	2.0342	2.0508	1.975	1.9099	1.8494	1.8155	1.7724	1.7432	2.0083	1.4575	1.4509	1.4421	1.454	1.4586	1.4284	1.4132	1.3926	1.4632	1.5219	1.6167	1.6453	1.663
645801.2	4265353.79	22.509	29.576	39.101	61.217	2.1704	2.1486	2.0899	2.0871	2.0488	2.0668	1.991	1.9256	1.8644	1.8303	1.7867	1.7573	2.0264	1.4662	1.4593	1.45	1.4614	1.4654	1.4347	1.4191	1.3981	1.4679	1.5259	1.6203	1.6484	1.6656
645811.2	4265353.79	23.061	30.377	40.211	63.874	2.1822	2.1592	2.1011	2.1002	2.0632	2.0827	2.0071	1.9413	1.8796	1.8452	1.8012	1.7715	2.0448	1.475	1.4677	1.4578	1.4688	1.4722	1.441	1.4249	1.4035	1.4724	1.5299	1.6238	1.6514	1.6681
645821.2	4265353.79	23.627	31.201	41.345	66.634	2.1942	2.1699	2.1123	2.1132	2.0775	2.0987	2.0233	1.9572	1.8949	1.8604	1.8159	1.786	2.0634	1.4839	1.4762	1.4656	1.4761	1.4789	1.4472	1.4306	1.4088	1.477	1.5337	1.6272	1.6544	1.6705
645701.2	4265363.79	17.61	22.517	29.124	39.966	2.0516	2.0328	1.9612	1.9408	1.8942	1.9018	1.8297	1.7704	1.7161	1.6849	1.6456	1.6183	1.8492	1.3759	1.3699	1.3642	1.3786	1.3868	1.3614	1.3502	1.3335	1.41	1.4738	1.5706	1.603	1.6248
645711.2	4265363.79	18.022	23.098	29.942	41.568	2.0616	2.0435	1.9738	1.9551	1.909	1.9173	1.8446	1.7846	1.7296	1.6982	1.6585	1.6311	1.8654	1.3837	1.3778	1.372	1.3862	1.3941	1.3682	1.3566	1.3395	1.4152	1.4784	1.5749	1.6068	1.6281
645721.2	4265363.79	18.447	23.699	30.785	43.246	2.0719	2.0542	1.9863	1.9694	1.924	1.9331	1.8598	1.7992	1.7435	1.7118	1.6718	1.6441	1.882	1.3917	1.386	1.3799	1.3939	1.4014	1.375	1.363	1.3454	1.4205	1.483	1.5792	1.6106	1.6315
645731.2	4265363.79	18.885	24.319	31.652	45.001	2.0824	2.0648	1.9988	1.9837	1.939	1.949	1.8753	1.814	1.7577	1.7257	1.6853	1.6575	1.899	1.3999	1.3942	1.3878	1.4016	1.4087	1.3819	1.3694	1.3514	1.4257	1.4875	1.5834	1.6144	1.6347
645741.2	4265363.79	19.334	24.958	32.542	46.843	2.0931	2.0755	2.0111	1.9978	1.9541	1.965	1.8909	1.829	1.772	1.7397	1.6989	1.6709	1.9161	1.4082	1.4025	1.3958	1.4093	1.416	1.3886	1.3757	1.3573	1.4309	1.492	1.5876	1.6181	1.638
645751.2	4265363.79	19.794	25.614	33.46	48.781	2.1038	2.0859	2.0231	2.0118	1.9689	1.981	1.9066	1.844	1.7863	1.7538	1.7126	1.6844	1.9333	1.4165	1.4107	1.4037	1.4169	1.4232	1.3953	1.3819	1.3631	1.4359	1.4964	1.5916	1.6216	1.641
645761.2	4265363.79	20.264	26.288	34.404	50.816	2.1147	2.0964	2.0349	2.0256	1.9837	1.9969	1.9222	1.8592	1.8008	1.7679	1.7264	1.698	1.9507	1.4249	1.419	1.4116	1.4244	1.4303	1.4019	1.388	1.3688	1.4408	1.5007	1.5955	1.6251	1.644
645771.2	4265363.79	20.748	26.982	35.373	52.946	2.1258	2.1068	2.0466	2.0392	1.9984	2.0129	1.938	1.8744	1.8154	1.7823	1.7403	1.7117	1.9683	1.4334	1.4273	1.4195	1.432	1.4373	1.4084	1.3941	1.3744	1.4457	1.5049	1.5993	1.6285	1.6469
645781.2	4265363.79	21.244	27.697	36.37	55.178	2.137	2.1172	2.0581	2.0526	2.013	2.0287	1.9539	1.8898	1.8302	1.7967	1.7543	1.7255	1.986	1.442	1.4357	1.4273	1.4394	1.4442	1.4148	1.4001	1.38	1.4505	1.509	1.6031	1.6317	1.6497
645791.2	4265363.79	21.754	28.432	37.391	57.511	2.1483	2.1276	2.0694	2.0658	2.0275	2.0446	1.9698	1.9052	1.845	1.8113	1.7685	1.7394	2.0039	1.4506	1.444	1.4351	1.4468	1.4511	1.4212	1.406	1.3855	1.4551	1.5131	1.6067	1.6349	1.6524
645801.2	4265363.79	22.278	29.189	38.437	59.941	2.1599	2.138	2.0806	2.0789	2.0418	2.0605	1.9857	1.9208	1.86	1.8261	1.7828	1.7535	2.022	1.4593	1.4524	1.443	1.4541	1.4579	1.4274	1.4118	1.3909	1.4598	1.517	1.6103	1.638	1.655
645811.2	4265363.79	22.816	29.967	39.507	62.472	2.1717	2.1485	2.0916	2.0918	2.056	2.0763	2.0017	1.9365	1.8751	1.8411	1.7972	1.7678	2.0403	1.4681	1.4607	1.4507	1.4614	1.4646	1.4336	1.4176	1.3963	1.4643	1.5209	1.6138	1.641	1.6575
645821.2	4265363.79	23.368	30.767	40.599	65.098	2.1836	2.1591	2.1025	2.1045	2.0701	2.092	2.0177	1.9522	1.8904	1.8561	1.8118	1.7821	2.0588	1.4769	1.4691	1.4584	1.4686	1.4712	1.4397	1.4232	1.4016	1.4687	1.5247	1.6171	1.6439	1.6599
645701.2	4265373.79	17.479	22.299	28.755	39.467	2.0416	2.0237	1.9541	1.9349	1.8891	1.897	1.8254	1.7664	1.7122	1.6813	1.6422	1.6151	1.8455	1.3695	1.3637	1.358	1.3722	1.3802	1.3549	1.3437	1.3271	1.4026	1.4655	1.5612	1.5931	1.6146
645711.2	4265373.79	17.881	22.866	29.553	41.027	2.0515	2.034	1.9664	1.9488	1.9037	1.9123	1.8401	1.7804	1.7256	1.6944	1.6549	1.6277	1.8615	1.3772	1.3715	1.3657	1.3796	1.3873	1.3616	1.35	1.3329	1.4077	1.47	1.5654	1.5968	1.6179
645721.2	4265373.79	18.299	23.455	30.375	42.653	2.0618	2.0446	1.9787	1.963	1.9185	1.928	1.8553	1.795	1.7395	1.708	1.6682	1.6408	1.8781	1.3852	1.3796	1.3735	1.3873	1.3946	1.3683	1.3563	1.3389	1.413	1.4746	1.5696	1.6006	1.6212
645731.2	4265373.79	18.729	24.062	31.218	44.349	2.0723	2.0552	1.991	1.9771	1.9335	1.9439	1.8708	1.8098	1.7537	1.7219	1.6817	1.6541	1.8951	1.3934	1.3878	1.3814	1.3949	1.4019	1.3751	1.3627	1.3448	1.4181	1.4791	1.5738	1.6044	1.6245
645741.2	4265373.79	19.17	24.687	32.082	46.122	2.083	2.0657	2.0032	1.9912	1.9484	1.9598	1.8864	1.8249	1.7681	1.736	1.6954	1.6676	1.9123	1.4017	1.3961	1.3893	1.4026	1.4091	1.3819	1.369	1.3506	1.4233	1.4836	1.578	1.6081	1.6277
645751.2	4265373.79	19.62	25.327	32.973	47.996	2.0937	2.076	2.0149	2.0048	1.963	1.9756	1.9019	1.8397	1.7823	1.7499	1.7089	1.681	1.9293	1.41	1.4042	1.3971	1.4101	1.4162	1.3884	1.3751	1.3563	1.4282	1.4879	1.5819	1.6115	1.6307
645761.2	4265373.79	20.08	25.984	33.891	49.962	2.1044	2.0862	2.0264	2.0182	1.9775	1.9912	1.9174	1.8547	1.7966	1.7639	1.7225	1.6943	1.9465	1.4183	1.4124	1.4049	1.4175	1.4231	1.3949	1.3811	1.3619	1.433	1.4921	1.5857	1.6149	1.6336
645771.2	4265373.79	20.552	26.661	34.832	52.015	2.1153	2.0964	2.0377	2.0315	1.9919	2.0069	1.9329	1.8698	1.811	1.7781	1.7363	1.7079	1.9638	1.4267	1.4206	1.4127	1.4249	1.43	1.4013	1.387	1.3675	1.4378	1.4962	1.5895	1.6182	1.6364
645781.2	4265373.79	21.038	27.357	35.796	54.156	2.1265	2.1067	2.049	2.0447	2.0063	2.0226	1.9487	1.8851	1.8257	1.7925	1.7503	1.7216	1.9815	1.4352	1.4289	1.4204	1.4322	1.4369	1.4076	1.3929	1.373	1.4425	1.5003	1.5932	1.6214	1.6392
645791.2	4265373.79	21.536	28.072	36.781	56.38	2.1379	2.117	2.0602	2.0578	2.0206	2.0384	1.9645	1.9005	1.8406	1.8072	1.7645	1.7356	1.9994	1.4438	1.4372	1.4282	1.4396	1.4437	1.4139	1.3988	1.3784	1.4471	1.5043	1.5968	1.6246	1.6419
645801.2	4265373.79	22.047	28.807	37.787	58.695	2.1496	2.1275	2.0712	2.0707	2.0349	2.0542	1.9804	1.9161	1.8556	1.822	1.7789	1.7498	2.0176	1.4525	1.4455	1.436	1.4469	1.4504	1.4202	1.4046	1.3838	1.4517	1.5082	1.6004	1.6277	1.6445
645811.2	4265373.79	22.572	29.563	38.818	61.106	2.1613	2.1379	2.0821	2.0834	2.0488	2.0697	1.9963	1.9317	1.8707	1.8369	1.7933	1.764	2.0359	1.4612	1.4538	1.4437	1.4541	1.4571	1.4263	1.4103	1.3891	1.4562	1.5121	1.6038	1.6307	1.6469
645821.2	4265373.79	23.11	30.338	39.871	63.606	2.1732	2.1484	2.0928	2.0958	2.0627	2.0852	2.0121	1.9473	1.8858	1.8519	1.8078	1.7783	2.0543	1.4699	1.462	1.4513	1.4612	1.4636	1.4323	1.4159	1.3943	1.4606	1.5158	1.6071	1.6336	1.6493
645731.2	4265383.79	18.573	23.806	30.791	43.702	2.0623	2.0455	1.9832	1.9705	1.9279	1.9387	1.8663	1.8057	1.7498	1.7181	1.6781	1.6508	1.8912	1.387	1.3815	1.375	1.3883	1.395	1.3685	1.356	1.3382	1.4106	1.4708	1.5644	1.5945	1.6143
645741.2	4265383.79	19.006	24.418	31.629	45.41	2.0731	2.056	1.9952	1.9844	1.9428	1.9546	1.882	1.8207	1.7642	1.7323	1.6919	1.6643	1.9085	1.3953	1.3897	1.3829	1.3959	1.4023	1.3752	1.3623	1.344	1.4157	1.4752	1.5685	1.5982	1.6175

645751.2	4265383.79	19.446	25.042	32.495	47.219	2.0836	2.0661	2.0066	1.9978	1.9571	1.9702	1.8973	1.8355	1.7783	1.7461	1.7053	1.6775	1.9254	1.4035	1.3978	1.3906	1.4033	1.4092	1.3816	1.3683	1.3496	1.4206	1.4794	1.5724	1.6016	1.6205
645761.2	4265383.79	19.895	25.683	33.387	49.119	2.0942	2.076	2.0178	2.0108	1.9713	1.9855	1.9125	1.8502	1.7924	1.7599	1.7187	1.6907	1.9422	1.4117	1.4058	1.3983	1.4106	1.416	1.3879	1.3742	1.3551	1.4253	1.4835	1.5761	1.6049	1.6233
645771.2	4265383.79	20.357	26.342	34.302	51.102	2.1049	2.086	2.0288	2.0237	1.9853	2.0009	1.9278	1.8651	1.8066	1.7739	1.7322	1.704	1.9593	1.4199	1.4139	1.4059	1.4178	1.4227	1.3942	1.38	1.3605	1.4299	1.4875	1.5797	1.6081	1.626
645781.2	4265383.79	20.832	27.02	35.232	53.149	2.1162	2.0963	2.0399	2.0368	1.9995	2.0165	1.9435	1.8804	1.8213	1.7883	1.7462	1.7178	1.977	1.4284	1.4221	1.4136	1.4251	1.4296	1.4005	1.3858	1.366	1.4346	1.4916	1.5834	1.6113	1.6288
645791.2	4265383.79	21.318	27.716	36.182	55.275	2.1276	2.1066	2.051	2.0497	2.0137	2.0321	1.9592	1.8958	1.8362	1.803	1.7605	1.7318	1.995	1.437	1.4304	1.4214	1.4324	1.4363	1.4068	1.3917	1.3714	1.4392	1.4956	1.587	1.6145	1.6315
645801.2	4265383.79	21.818	28.429	37.15	57.478	2.1393	2.117	2.0619	2.0625	2.0278	2.0478	1.9751	1.9114	1.8513	1.8179	1.7749	1.746	2.0132	1.4457	1.4387	1.4291	1.4397	1.4431	1.413	1.3974	1.3768	1.4438	1.4995	1.5906	1.6176	1.6341
645811.2	4265383.79	22.329	29.163	38.144	59.775	2.151	2.1274	2.0726	2.0749	2.0416	2.0632	1.9908	1.9269	1.8663	1.8328	1.7893	1.7602	2.0314	1.4544	1.4469	1.4367	1.4468	1.4496	1.419	1.4031	1.382	1.4482	1.5033	1.594	1.6205	1.6365
645821.2	4265383.79	22.854	29.916	39.159	62.155	2.1629	2.1378	2.0831	2.0871	2.0552	2.0784	2.0065	1.9423	1.8813	1.8477	1.8037	1.7744	2.0497	1.463	1.4551	1.4442	1.4538	1.456	1.425	1.4086	1.3872	1.4525	1.507	1.5973	1.6233	1.6389
645761.2	4265393.79	19.71	25.383	32.891	48.287	2.0841	2.066	2.0092	2.0034	1.965	1.9798	1.9076	1.8458	1.7882	1.7559	1.7149	1.6871	1.938	1.4051	1.3993	1.3917	1.4037	1.409	1.3811	1.3673	1.3484	1.4176	1.4751	1.5665	1.5949	1.6131
645771.2	4265393.79	20.163	26.026	33.774	50.184	2.0949	2.076	2.0201	2.0162	1.9789	1.9951	1.9229	1.8607	1.8025	1.77	1.7285	1.7005	1.9552	1.4134	1.4074	1.3993	1.411	1.4157	1.3873	1.3731	1.3537	1.4222	1.4791	1.5702	1.5981	1.6158
645781.2	4265393.79	20.627	26.686	34.674	52.148	2.1061	2.0861	2.031	2.029	1.9929	2.0105	1.9384	1.8759	1.8171	1.7844	1.7424	1.7142	1.9728	1.4218	1.4155	1.4069	1.4182	1.4224	1.3935	1.3789	1.3591	1.4268	1.4831	1.5738	1.6013	1.6185
645791.2	4265393.79	21.102	27.363	35.591	54.181	2.1175	2.0963	2.0419	2.0416	2.0069	2.026	1.9541	1.8912	1.832	1.799	1.7566	1.7282	1.9907	1.4304	1.4237	1.4146	1.4254	1.4291	1.3997	1.3847	1.3645	1.4314	1.487	1.5774	1.6044	1.6212
645801.2	4265393.79	21.589	28.056	36.526	56.287	2.1292	2.1067	2.0526	2.0542	2.0208	2.0414	1.9698	1.9067	1.8469	1.8138	1.771	1.7423	2.0088	1.439	1.4319	1.4222	1.4326	1.4357	1.4059	1.3904	1.3698	1.4359	1.4909	1.5809	1.6075	1.6238
645811.2	4265393.79	22.088	28.769	37.484	58.478	2.1408	2.117	2.0631	2.0664	2.0343	2.0566	1.9854	1.922	1.8618	1.8286	1.7853	1.7564	2.0269	1.4476	1.44	1.4298	1.4396	1.4422	1.4118	1.3959	1.375	1.4403	1.4947	1.5842	1.6104	1.6262
645821.2	4265393.79	22.599	29.499	38.462	60.744	2.1526	2.1273	2.0735	2.0784	2.0476	2.0716	2.0008	1.9374	1.8768	1.8434	1.7997	1.7705	2.0451	1.4561	1.4481	1.4372	1.4465	1.4485	1.4177	1.4013	1.3801	1.4445	1.4983	1.5875	1.6132	1.6285
647657.9	4263627.59	7.0046	6.4971	6.0418	6.3459	5.2	6.5215	8.0072	9.3272	10.758	12.061	14.235	16.628	20.986	26.104	35.737	48.391	55.531	2.6561	2.3678	2.1903	2.054	1.9299	1.865	1.7944	1.7332	1.498	1.347	1.2411	1.1767	1.1167
647657.9	4263637.59	6.9747	6.4723	6.0208	6.3281	5.1553	6.4608	7.9274	9.2386	10.661	11.974	14.119	16.465	20.665	25.58	34.764	46.683	52.94	2.6366	2.3519	2.1766	2.0418	1.9188	1.8545	1.7847	1.7266	1.4948	1.3535	1.2572	1.1926	1.1352
647916.2	4263707.24	4.672	4.4554	4.216	4.4401	3.4109	3.9903	4.6478	5.17	5.6658	6.0756	6.6991	7.2881	8.1868	9.1061	10.603	12.447	11.175	1.8269	1.6644	1.5511	1.496	1.4217	1.3816	1.3252	1.2768	1.1274	1.0365	0.9749	0.9332	0.8917
647926.2	4263707.24	4.6115	4.4011	4.1669	4.3866	3.3693	3.893	4.5731	5.077	5.5625	5.9494	6.5559	7.1224	7.9869	8.8657	10.291	12.029	10.803	1.8068	1.6318	1.5293	1.4667	1.3968	1.3495	1.2914	1.2358	1.1183	1.0279	0.9674	0.9264	0.8855
647916.2	4263717.24	4.6467	4.4345	4.1977	4.4181	3.3872	3.9126	4.6038	5.1253	5.6288	6.0426	6.6674	7.2508	8.1259	9.0239	10.468	12.254	11.012	1.8157	1.6401	1.5361	1.4718	1.4012	1.3531	1.2945	1.2393	1.1221	1.0328	0.9704	0.9287	0.8873
647926.2	4263717.24	4.5868	4.3805	4.1489	4.3648	3.3461	3.8353	4.5228	5.0406	5.5271	5.9236	6.5262	7.0748	7.9141	8.7865	10.161	11.846	10.649	1.7932	1.6227	1.5182	1.4512	1.3889	1.3416	1.2837	1.2287	1.1132	1.0242	0.9629	0.9218	0.881
647916.2	4263737.24	4.5981	4.3932	4.1615	4.374	3.3406	3.8191	4.4967	5.0446	5.5467	5.9805	6.5984	7.1627	7.9982	8.8745	10.218	11.894	10.695	1.7854	1.6176	1.5127	1.4443	1.3811	1.3325	1.2794	1.2253	1.1114	1.0254	0.9618	0.92	0.8789
647926.2	4263737.24	4.5392	4.3396	4.113	4.3208	3.2969	3.7629	4.4201	4.9613	5.448	5.8603	6.4537	7.003	7.805	8.6423	9.9209	11.51	10.347	1.7629	1.5908	1.4802	1.4149	1.3578	1.316	1.2686	1.2148	1.1027	1.017	0.9542	0.9131	0.8725
647886.2	4263747.24	4.7607	4.5415	4.2961	4.5188	3.4423	4.0218	4.7007	5.2726	5.8203	6.3132	6.9976	7.644	8.5825	9.5655	11.096	13.016	11.696	1.8502	1.6816	1.565	1.5087	1.4314	1.3929	1.3331	1.2835	1.1322	1.0471	0.9816	0.9379	0.8953
647896.2	4263747.24	4.6986	4.4853	4.2454	4.4632	3.4003	3.9316	4.6296	5.1764	5.7148	6.1891	6.8483	7.4686	8.3665	9.302	10.74	12.562	11.29	1.824	1.6485	1.5419	1.4737	1.4026	1.3583	1.2948	1.2423	1.1236	1.0388	0.9738	0.9308	0.8887
647886.2	4263757.24	4.7391	4.523	4.28	4.4986	3.4188	3.9903	4.6606	5.2298	5.7754	6.2723	6.9538	7.5976	8.5247	9.4955	10.978	12.838	11.524	1.8397	1.6727	1.5571	1.501	1.4244	1.3862	1.3265	1.2772	1.1268	1.0435	0.9783	0.9346	0.8922
647896.2	4263757.24	4.6776	4.467	4.2295	4.4432	3.3774	3.9008	4.5904	5.1341	5.6717	6.1503	6.8069	7.4248	8.3114	9.2351	10.627	12.393	11.126	1.8139	1.6401	1.5339	1.4655	1.3952	1.3512	1.2883	1.2363	1.1184	1.0354	0.9706	0.9275	0.8856
647414.7	4263742.01	9.8451	8.9413	8.1651	8.565	7.2347	9.6578	12.899	16.23	20.157	24.553	31.015	37.481	46.676	52.564	50.515	46.244	48.522	3.4456	3.0124	2.715	2.5679	2.3821	2.2929	2.1854	2.0645	1.668	1.4914	1.412	1.3422	1.2776
647444.7	4263742.01	9.2841	8.4756	7.7671	8.1668	6.788	8.5679	11.61	14.545	17.973	21.654	27.239	32.979	41.903	48.759	50.081	47.456	46.363	3.2135	2.7617	2.5285	2.3686	2.2409	2.1481	2.0465	1.9214	1.6076	1.4448	1.3723	1.3059	1.2441
647414.7	4263752.01	9.7932	8.9028	8.1338	8.5405	7.1625	9.5451	12.721	15.973	19.778	24.031	30.238	36.401	45.056	50.637	48.878	45.046	47.379	3.4163	2.9884	2.6945	2.5499	2.3659	2.2781	2.1716	2.0519	1.6588	1.4825	1.4035	1.3346	1.2709
647444.7	4263752.01	9.2337	8.4374	7.7357	8.141	6.7225	8.4704	11.458	14.328	17.662	21.234	26.619	32.118	40.574	47.044	48.322	45.961	45.125	3.1861	2.7404	2.51	2.3528	2.2266	2.1347	2.0341	1.9099	1.5987	1.436	1.3642	1.2988	1.238
647414.7	4263772.01	9.6929	8.8283	8.0734	8.4924	7.0234	9.3835	12.451	15.481	19.058	23.043	28.797	34.378	42.059	47.097	45.865	42.88	45.36	3.3601	2.9424	2.6849	2.5152	2.3347	2.2543	2.1542	2.046	1.6424	1.4665	1.3875	1.32	1.258
647424.7	4263772.01	9.5074	8.6739	7.9414	8.3593	6.8774	9.0754	12.009	14.97	18.388	22.15	27.629	33.061	40.777	46.101	45.718	43.042	44.367	3.3036	2.8972	2.6008	2.4801	2.3039	2.2201	2.1127	1.9961	1.6231	1.4515	1.3751	1.3089	1.2478
647434.7	4263772.01	9.3216	8.5187	7.8085	8.2251	6.7349	8.7467	11.629	14.455	17.718	21.275	26.516	31.77	39.443	45.026	45.494	43.222	43.558	3.2381	2.819	2.5403	2.4323	2.2622	2.186	2.0711	1.959	1.6031	1.4359	1.3622	1.2972	1.2371
647444.7	4263772.01	9.1406	8.3669	7.6782	8.0931	6.5974	8.3511	11.226	13.918	17.1	20.443	25.454	30.52	38.115	43.892	45.148	43.311	42.932	3.1645	2.7169	2.4825	2.3497	2.2053	2.1156	2.0114	1.8897	1.5835	1.4207	1.3494	1.2857	1.2265
647414.7	4263782.01	9.6467	8.7942	8.046	8.4702	6.9572	9.2966	12.292	15.248	18.718	22.593	28.133	33.454	40.696	45.473	44.471	41.892	44.509	3.3431	2.9208	2.6662	2.4987	2.3199	2.2406	2.1415	2.0491	1.6397	1.4598	1.3804	1.3135	1.252
647424.7	4263782.01	9.4619	8.64	7.9141	8.3368	6.8133	9.0297	11.925	14.751	18.069	21.718	27.012	32.184	39.471	44.527	44.295	41.987	43.488	3.2778	2.876	2.6274	2.4639	2.2894	2.2115	2.1142	2.0087	1.6163	1.4449	1.3681	1.3025	1.2419
647434.7	4263782.01	9.2797	8.4874	7.7834	8.2043	6.6737	8.7056	11.488	14.273	17.446	20.892	25.933	30.96	38.221	43.517	44.058	42.11	42.659	3.2232	2.8242	2.5374	2.4299	2.2594	2.1781	2.0737	1.9597	1.5971	1.4298	1.3557	1.2913	1.2318
647444.7	4263782.01	9.1015	8.3377	7.6548	8.0736	6.5389	8.4412	11.153	13.794	16.827	20.091	24.916	29.772	36.974	42.451	43.752	42.241	42.001	3.1605	2.7566	2.4868	2.3837	2.219	2.1404	2.0334	1.9239	1.5781	1.415	1.3434	1.2802	1.2216
647492.1	4263779.7	8.3133	7.6686	7.0765	7.4809	5.8889	7.2193	9.361	11.731	14.305	16.847	20.733	24.747	31.261	37.051	41.342	42.466	40.28	2.7659	2.4429	2.2557	2.1237	2.0235	1.9611	1.8498	1.7662	1.4916	1.3486	1.2873	1.229	1.1739
647502.1	4263779.7	8.1566	7.5345	6.96	7.3607	5.7107	7.0451	9.075	11.263	13.823	16.218	19.949	23.785	30.046	35.788	40.48	42.282	39.857	2.7088	2.4034	2.2217	2.0933	1.996	1.9249	1.8203	1.7431	1.4742	1.3352	1.2757	1.2182	1.1637
647492.1	4263789.7	8.2759	7.6399	7.0533	7.4597	5.8824	7.1577	9.3073	11.651	14.105	16.585	20.353	24.243	30.464	35.98	40.036	41.222	39.265	2.7845	2.4299	2.2438	2.113	2.0198	1.9516	1.8469	1.7586	1.4861	1.3425	1.2815	1.2239	1.1696
647502.1	4263789.7	8.1149	7.5021	6.9335	7.336	5.7058	6.9789	8.9989	11.196	13.629	15.979	19.585	23.289	29.311	34.773	39.205	40.903	38.783	2.6908	2.3887	2.2084	2.0813	1.9855	1.9252	1.8109	1.7344	1.4676	1.3282	1.2692	1.2126	1.159
647535.2	4263796.25	7.6228	7.0799	6.5662	6.9546	5.2122	6.4462	8.1524	9.9576	11.994	13.988	17.128	20.268	25.419	30.395	35.511	38.763	36.83	2.5423	2.2662	2.1019	1.9801	1.8836	1.8321	1.7344	1.6622	1.4134	1.2861	1.2317	1.1777	1.1262
647545.2	4263796.25	7.5009	6.9739	6.4735	6.8571	5.1448	6.3237	7.9644	9.6958	11.647	13.585	16.556	19.577	24.49	29.325	34.564	38.207	36.523	2.509	2.2382	2.0775	1.9582	1.8631	1.8122	1.7166	1.6457	1.4015	1.2774	1.2236	1.1699	1.1186
647535.2	4263806.25	7.601	7.0641	6.5539	6.9423	5.3089	6.409	8.1328	10.004	12.058	13.976	16.92	19.954	24.91	29.675	34.535	37.593	36.081	2.5425	2.2595	2.0955	1.9793	1.8915	1.8361	1.7346	1.6583	1.4111	1.2827	1.2283	1.1748	1.1239
647545.2	4263806.25	7.4768	6.9563	6.4594	6.8427	5.2295	6.284	7.9419	9.7422	11.712	13.542	16.357	19.263	24.012	28.65	33.657	37.049	35.717	2.5078	2.2305	2.0703	1.9564	1.8699	1.8157	1.7161	1.6411	1.3985	1.2734	1.2198	1.1667	1.1161
647539.5	4263771.66	7.6874	7.1271	6.6046	6.9886	5.3893	6.5687	8.3066	10.225	12.448	14.474	17.666	20.983	26.46	31.904	37.853	41.986	40.445	2.5824	2.2973	2.1297	2.01	1.917	1.8508	1.7537	1.681	1.4295	1.304	1.2462	1.1896	1.1355
647549.5	4263771.66	7.578	7.0319	6.5217	6.9012	5.3748	6.4611	8.1726	10.136	12.114	14.063	17.084	20.255	25.487	30.738	36.825	41.366	40.389	2.5833	2.2749	2.1097	1.9916	1.8986	1.8428	1.7478	1.6677	1.4208	1.2978	1.2398	1.1832	1.1292
647539.5	4263781.66	7.6373	7.0871	6.5708	6.9562	5.2634	6.493	8.2051	10.019	12.096	14.166	17.309	20.569	25.857	31.078	36.686	40.498	38.746	2.5585	2.2784	2.1131	1.9903	1.8952	1.8391	1.742	1.6697	1.4201	1.2946	1.2386	1.1831	1.1302
647549.5	4263781.66	7.5295	6.9932	6.489	6.8696	5.3051	6.3881	8.0746	9.9185	11.947	13.848	16.793	19.869	24.929	29.974	35.719	39.91	38.805	2.5416	2.2564	2.0935	1.9772	1.8866	1.8315	1.7319	1.6567	1.4116	1.2887	1.2324	1.177	1.124
647549.2	4263723.13	7.8416	7.2443	6.702	7.0689	5.6839	7.051	9.0758	10.897	13.078	15.246	18.648	22.328	28.505	35.008	43.435	50.516	50.291	2.8219	2.4528	2.2478	2.1196	2	1.9269	1.8313	1.7351	1.475	1.3489	1.2793	1.2168	1.1576
647559.2	4263723.13	7.729	7.1466	6.6172	6.9804	5.5912	7.0771	8.8864	10.675	12.714	14.772	17.993	21.491	27.329	33.54	41.972	49.523	49.98	2.8016	2.4927	2.2612	2.1603	2.0218	1.9486	1.8601	1.7615	1.4662	1.342	1.2719	1.2097	1.1507
647549.2	4263733.13	7.7882	7.2013	6.6655	7.0359	5.6296	6.8723	8.8895	10.748	12.868	14.997	18.328	21.891	27.853	34.086	41.912	48.338	47.973	2.7759	2.4216	2.2214	2.0844	1.9808	1.9088	1.8189	1.7172	1.4634	1.3382	1.2712	1.2099	1.1517
647559.2	4263733.13	7.6778	7.1054	6.5821	6.9487	5.5386	6.9529	8.7771	10.517	12.519	14.541	17.696	21.099	26.747	32.697	40.551	47.45	47.645	2.7728	2.4508	2.2281	2.1323	1.9956	1.9301	1.8322	1.7415	1.455	1.3317	1.2642	1.203	1.1451
647539.5	4263752.05	7.7945	7.2132	6.6775	7.0573	5.5871	6.7338	8.5829	10.691	12.829	14.973	18.31	21.848	27.715	33.627	40.419	45.335	44.055	2.664	2.3396	2.1664	2.0424	1.95	1.8853	1.7878	1.7058	1.4505	1.3245	1.2625	1.2033	1.147
647549.5	4263752.05	7.6815	7.1151	6.5923	6.968	5.5125	6.6417	8.5646	10.445	12.476	14.51	17.697	21.07	26.649	32.354	39.213	44.671	43.981	2.685	2.3162	2.1454	2.0282	1.9307	1.8669	1.7827	1.6918	1.4415	1.3178	1.2555	1.1964	1.1403

647539.5	4263762.05	7.7376	7.1674	6.6386	7.0208	5.4822	6.6457	8.4472	10.431	12.624	14.713	17.975	21.392	27.069	32.727	39.045	43.538	42.171	2.6071	2.3168	2.1467	2.0251	1.9295	1.8722	1.7655	1.6924	1.4391	1.3135	1.2539	1.196	1.1409
647549.5	4263762.05	7.6265	7.0708	6.5546	6.9326	5.4443	6.5354	8.3038	10.28	12.281	14.276	17.373	20.648	26.037	31.499	37.953	42.957	42.067	2.6245	2.2939	2.1262	2.0062	1.9169	1.854	1.759	1.6788	1.4303	1.3071	1.2471	1.1894	1.1343
647480	4263737.54	8.7071	7.9892	7.3479	7.7404	6.3177	7.7854	10.256	12.979	15.915	18.959	23.681	28.655	36.858	44.13	49.008	49.536	46.382	2.9604	2.5684	2.3665	2.2224	2.1163	2.0427	1.9323	1.8394	1.5479	1.4005	1.3328	1.2691	1.209
647480	4263717.93	8.8242	8.0807	7.4252	7.8068	6.4696	8.0783	10.765	13.409	16.507	19.7	24.735	30.089	39.098	47.314	53.105	53.75	49.947	3.0949	2.641	2.4101	2.2699	2.1543	2.0783	1.9869	1.8681	1.5716	1.4233	1.3514	1.285	1.2225
647480	4263727.93	8.764	8.0337	7.3855	7.7729	6.393	7.912	10.544	13.204	16.195	19.31	24.198	29.355	37.945	45.643	50.91	51.511	48.056	3.0273	2.5923	2.3874	2.2469	2.1313	2.0568	1.9581	1.8532	1.5592	1.4115	1.3418	1.2768	1.2155
646052.1	4262282.31	4.6007	4.4018	4.3223	3.8799	6.3938	5.4278	4.8202	4.4712	4.2033	4.0104	3.7872	3.6254	3.4502	3.3021	3.1613	3.0405	3.0358	5.3017	6.0908	6.8048	7.5608	8.4394	9.1214	10.001	10.936	15.064	19.704	21.707	23.892	26.45
646062.1	4262282.31	4.598	4.4061	4.333	3.8889	6.4756	5.4907	4.8731	4.5173	4.2446	4.0481	3.8214	3.657	3.4798	3.3295	3.1866	3.0643	3.0579	5.3798	6.1903	6.9251	7.6997	8.6022	9.3097	10.219	11.19	15.459	20.203	22.04	24.154	26.986
646072.1	4262282.31	4.5958	4.4113	4.3442	3.8984	6.5588	5.5545	4.9269	4.564	4.2865	4.0863	3.8562	3.6891	3.5099	3.3573	3.2123	3.0884	3.0805	5.4595	6.292	7.0481	7.8415	8.7685	9.5028	10.444	11.453	15.868	20.704	22.364	24.428	27.572
646052.1	4262292.31	4.6315	4.4303	4.3498	3.9027	6.4408	5.462	4.8471	4.4957	4.226	4.0316	3.8065	3.6437	3.4664	3.3171	3.1756	3.0537	3.051	5.3485	6.1485	6.8736	7.6463	8.5446	9.2397	10.139	11.096	15.352	20.203	22.404	24.801	27.582
646062.1	4262292.31	4.6288	4.4347	4.3606	3.9118	6.524	5.526	4.9007	4.5423	4.2676	4.0696	3.8411	3.6756	3.4964	3.3448	3.2011	3.0777	3.0732	5.428	6.2501	6.9965	7.7886	8.7118	9.4332	10.364	11.358	15.763	20.729	22.765	25.089	28.16
646072.1	4262292.31	4.6265	4.4399	4.3719	3.9213	6.6086	5.5909	4.9551	4.5895	4.3099	4.1082	3.8762	3.708	3.5267	3.3728	3.227	3.102	3.0958	5.5092	6.3539	7.1222	7.934	8.8827	9.6317	10.595	11.629	16.187	21.259	23.116	25.388	28.791
645776.7	4262282.15	4.7717	4.4914	4.3046	3.8573	4.5703	4.0122	3.6384	3.4271	3.2588	3.1355	2.9897	2.8759	2.7546	2.6524	2.5583	2.4737	2.5185	3.6281	4.0356	4.3985	4.7627	5.1648	5.4282	5.7804	6.1363	7.8658	9.9013	11.719	13.775	16.509
645786.7	4262282.15	4.764	4.4857	4.3	3.8533	4.6231	4.0527	3.6724	3.4575	3.2867	3.1615	3.0138	2.8988	2.7754	2.6719	2.5769	2.4914	2.5352	3.6747	4.0899	4.4609	4.8345	5.2474	5.5194	5.8825	6.2503	8.0311	10.132	11.994	14.112	16.931
645776.7	4262292.15	4.8044	4.5212	4.3323	3.8802	4.5913	4.0311	3.6546	3.4419	3.2723	3.1484	3.0012	2.8861	2.7647	2.6617	2.5667	2.4813	2.5287	3.6479	4.0613	4.4279	4.7952	5.2021	5.4671	5.8232	6.1831	7.9409	10.023	11.9	14.03	16.88
645786.7	4262292.15	4.7968	4.5154	4.3276	3.8762	4.6444	4.0719	3.689	3.4727	3.3005	3.1745	3.0256	2.9091	2.7856	2.6813	2.5854	2.4991	2.5456	3.695	4.1163	4.4912	4.8682	5.2859	5.5597	5.9269	6.2989	8.1096	10.26	12.185	14.38	17.322
646321.4	4262579.86	5.9138	5.7707	5.6679	4.9827	12.996	9.9526	8.384	7.5635	6.951	6.5031	6.0208	5.6649	5.3016	4.9986	4.7226	4.4812	4.5148	12.424	15.808	19.414	23.949	30.38	36.807	45.665	57.39	135.83	326.69	147.04	59.976	35.858
646331.4	4262579.86	5.9351	5.7861	5.6856	4.9941	13.265	10.127	8.5163	7.6743	7.0473	6.5886	6.0963	5.7345	5.3646	5.0557	4.7741	4.5281	4.5578	12.739	16.268	20.048	24.8	31.545	38.418	47.891	60.621	147.11	336.46	126.98	55.193	33.584
646341.4	4262579.86	5.9566	5.802	5.7046	5.0061	13.542	10.306	8.6519	7.7875	7.1454	6.6755	6.1731	5.8053	5.4286	5.1138	4.8264	4.5757	4.6014	13.064	16.743	20.71	25.68	32.744	40.099	50.241	64.11	159.59	340.6	110.66	50.941	31.497
646321.4	4262589.86	5.96	5.8145	5.711	5.0164	13.148	10.049	8.4556	7.6241	7.0032	6.5504	6.0618	5.6997	5.3325	5.0265	4.7482	4.5049	4.5445	12.616	16.097	19.823	24.549	31.297	38.061	47.49	60.158	147.87	379.86	146.19	59.312	35.455
646331.4	4262589.86	5.9816	5.8301	5.7292	5.0281	13.424	10.227	8.5902	7.7368	7.1011	6.6372	6.1384	5.7703	5.3962	5.0842	4.8003	4.5523	4.5881	12.942	16.575	20.484	25.443	32.536	39.787	49.9	63.699	161.12	387.37	125.28	54.564	33.188
646341.4	4262589.86	6.0033	5.8462	5.7485	5.0403	13.708	10.409	8.728	7.8519	7.2009	6.7256	6.2164	5.8421	5.461	5.1429	4.8532	4.6004	4.6322	13.279	17.069	21.175	26.371	33.815	41.591	52.45	67.537	175.9	390.44	108.8	50.343	31.112
646323	4262547.9	5.7732	5.6368	5.5365	4.8793	12.559	9.6777	8.1793	7.3891	6.7999	6.3663	5.9018	5.5641	5.2132	4.9195	4.6495	4.4138	4.4279	11.872	14.984	18.256	22.266	27.825	33.347	40.703	50.102	106.93	214.25	136.4	60.983	36.602
646333	4262547.9	5.7939	5.6516	5.5532	4.8901	12.809	9.8422	8.3056	7.4947	6.8915	6.4478	5.9739	5.6305	5.2738	4.9747	4.6994	4.4592	4.4694	12.157	15.393	18.816	22.994	28.786	34.656	42.459	52.569	114.04	223.06	122.3	56.241	34.357
646370.6	4262560.5	5.9301	5.7658	5.6808	4.9787	14.039	10.634	8.9086	7.9975	7.3259	6.8333	6.3142	5.9402	5.5536	5.2288	4.9288	4.6677	4.6686	13.594	17.508	21.761	26.842	34.044	42.033	52.847	68.09	165.96	263.46	80.368	41.842	26.967
646380.6	4262560.5	5.9513	5.7835	5.7035	4.9931	14.331	10.822	9.0523	8.1159	7.4275	6.9226	6.3933	6.0127	5.6195	5.2889	4.9828	4.7165	4.7123	13.93	18.011	22.46	27.707	35.217	43.745	55.34	72.051	178.47	255.98	72.486	39.002	25.441
646025.1	4262309.3	4.694	4.4721	4.3711	3.9199	6.2981	5.3477	4.7504	4.4137	4.1541	3.9658	3.7476	3.5889	3.4139	3.2682	3.1316	3.0122	3.0201	5.2152	5.9752	6.6651	7.4113	8.2744	8.9228	9.7693	10.666	14.742	19.579	22.498	25.561	28.24
646090.8	4262310.6	4.6805	4.5053	4.446	3.9829	6.8673	5.7848	5.1132	4.7287	4.4356	4.2237	3.9812	3.8057	3.6163	3.4557	3.3041	3.1739	3.1681	5.7629	6.6764	7.5125	8.3995	9.4426	10.278	11.353	12.518	17.686	23.431	25.335	28.033	32.764
646090.8	4262320.6	4.7121	4.5349	4.4748	4.0066	6.9207	5.8235	5.1433	4.7559	4.4605	4.2469	4.0023	3.8255	3.6338	3.4718	3.3193	3.1879	3.1843	5.8171	6.7443	7.595	8.5034	9.5718	10.424	11.526	12.721	18.067	24.117	26.269	29.249	34.392
646026.3	4262282.42	4.6097	4.395	4.2979	3.8593	6.1894	5.2694	4.6875	4.3557	4.0999	3.9157	3.7011	3.5457	3.3756	3.2329	3.0977	2.9808	2.981	5.1076	5.844	6.5072	7.2161	8.0359	8.6572	9.4626	10.313	14.101	18.442	20.804	23.231	25.318
646036.3	4262282.42	4.6061	4.3971	4.3069	3.8669	6.2676	5.3302	4.7383	4.4	4.1395	3.9521	3.7341	3.5763	3.4042	3.2595	3.1221	3.0037	3.0019	5.1817	5.9381	6.6205	7.3475	8.1898	8.8338	9.6672	10.549	14.466	18.927	21.165	23.494	25.718
646026.3	4262292.42	4.6406	4.4235	4.3252	3.8819	6.2332	5.3011	4.7129	4.379	4.1216	3.9358	3.7197	3.5631	3.3911	3.2472	3.1114	2.9935	2.9962	5.1507	5.8966	6.5702	7.2937	8.1305	8.7629	9.5848	10.453	14.352	18.876	21.43	24.072	26.362
646036.3	4262292.42	4.6369	4.4256	4.3343	3.8897	6.3126	5.3629	4.7643	4.4237	4.1616	3.9726	3.753	3.5941	3.42	3.274	3.136	3.0166	3.0172	5.2262	5.9926	6.6856	7.428	8.2884	8.9442	9.7953	10.697	14.73	19.385	21.819	24.362	26.794

Mining Equipment Diesel PM Emissions

Phase	Year	Off-Road	Unit
Annual	2026	320	lbs/yr
		0.012902668	g/s

Total hours per day	12	Provided
Total workdays per year	240	Provided
Total working hours modeled	3120	
Total working seconds per yea	11232000	
grams per lb	453.5924	

Seconds per year calc	M-F	Sa
Hours by Zoning code*	6 am - 9pm	7 am - 3 pm
Hours modeled	7 am - 7 pm	
Hrs/day, given	12	8
Days per week	5	2
Hours per week	60	16
Hours per year	3120	

Assumption of 240 days per year of operation up to 12 operating hours per day
*ASPEN VIII and IX Mining Use Permit

Phased Diesel PM Emission Rates (g/s)

Phase	**Group Emission Rates (g/s)**	**# Vol Sources per Year in Group**	**Adjusted Individual Emission Rate in Group**
Aspen VIII expansion mining	0.012902668	64	0.00020
Aspen IX East expansion mining	0.007838838	35	0.00022
ASpen IX West expansion mining	0.005063829	23	0.00022
Reclaimation			

Note: The individual source emission rate is the group emission rate divided by the number of sources in the group.

Number of volume sources per year defined for each source group

Area	**Acreage**	**% of acreage**
IXE	111	0.61
IXW	72	0.39

Control Pathway

Dispersion Options

Titles

Aspen VIII and IX Expansion Project

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Rural

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

Option not available

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☑ Yes ☐ No

Default Height = 1.80 m

Control Pathway

Optional Files

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

Detailed Error Listing File

Filename: Aspen89_quarry.err

Source Pathway - Source Inputs

Source Pathway - Source Inputs

Volume Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y1_01	646347.70 Area 8 Year 1	4264803.31	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_02	646283.17 Area 8 Year 1	4264802.25	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_03	646412.32 Area 8 Year 1	4264803.32	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_04	646380.53 Area 8 Year 1	4264803.24	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_05	646315.16 Area 8 Year 1	4264802.45	19.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_06	646348.45 Area 8 Year 1	4264769.49	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_07	646283.91 Area 8 Year 1	4264768.43	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_08	646413.06 Area 8 Year 1	4264769.49	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_09	646381.28 Area 8 Year 1	4264769.42	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_10	646315.91 Area 8 Year 1	4264768.62	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_11	646348.08 Area 8 Year 1	4264737.56	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_12	646283.54 Area 8 Year 1	4264736.50	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_13	646412.69 Area 8 Year 1	4264737.57	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y1_14	646380.91 Area 8 Year 1	4264737.49	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_15	646315.54 Area 8 Year 1	4264736.70	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_16	646348.82 Area 8 Year 1	4264703.74	19.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_17	646284.28 Area 8 Year 1	4264702.67	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_18	646413.43 Area 8 Year 1	4264703.74	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_19	646381.65 Area 8 Year 1	4264703.67	20.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_20	646316.28 Area 8 Year 1	4264702.87	19.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_21	646348.78 Area 8 Year 1	4264669.21	19.82	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_22	646284.24 Area 8 Year 1	4264668.14	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_23	646413.39 Area 8 Year 1	4264669.21	19.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_24	646381.61 Area 8 Year 1	4264669.13	19.85	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_25	646316.24 Area 8 Year 1	4264668.34	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_26	646186.13 Area 8 Year 1	4264736.60	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y1_27	646232.93 Area 8 Year 1	4264569.25	19.75	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_28	646250.74 Area 8 Year 1	4264736.61	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_29	646218.96 Area 8 Year 1	4264736.53	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_30	646251.91 Area 8 Year 1	4264767.55	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_31	646185.76 Area 8 Year 1	4264704.67	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_32	646232.56 Area 8 Year 1	4264537.32	19.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_33	646250.37 Area 8 Year 1	4264704.68	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_34	646218.59 Area 8 Year 1	4264704.60	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_35	646153.21 Area 8 Year 1	4264703.81	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_36	646186.50 Area 8 Year 1	4264670.85	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_37	646217.32 Area 8 Year 1	4264509.71	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_38	646251.11 Area 8 Year 1	4264670.85	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_39	646219.33 Area 8 Year 1	4264670.78	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y1_40	646153.96 Area 8 Year 1	4264669.98	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_41	646184.41 Area 8 Year 1	4264636.74	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_42	646221.09 Area 8 Year 1	4264764.37	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_43	646249.02 Area 8 Year 1	4264636.75	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_44	646217.24 Area 8 Year 1	4264636.67	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_45	646151.87 Area 8 Year 1	4264635.88	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_46	646133.47 Area 8 Year 1	4264538.12	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_47	646134.45 Area 8 Year 1	4264473.58	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_48	646133.54 Area 8 Year 1	4264602.73	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_49	646133.58 Area 8 Year 1	4264570.95	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_50	646134.30 Area 8 Year 1	4264505.57	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_51	646165.40 Area 8 Year 1	4264537.70	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_52	646166.38 Area 8 Year 1	4264473.16	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y1_53	646165.47 Area 8 Year 1	4264602.32	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_54	646165.51 Area 8 Year 1	4264570.53	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_55	646166.22 Area 8 Year 1	4264505.16	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_56	646199.22 Area 8 Year 1	4264538.41	19.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_57	646200.21 Area 8 Year 1	4264473.87	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_58	646199.30 Area 8 Year 1	4264603.02	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_59	646199.33 Area 8 Year 1	4264571.24	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_60	646200.05 Area 8 Year 1	4264505.87	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_61	646280.88 Area 8 Year 1	4264639.01	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_62	646337.52 Area 8 Year 1	4264653.28	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_63	646231.18 Area 8 Year 1	4264602.83	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y1_64	646314.47 Area 8 Year 1	4264643.34	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_01	646345.93 Area 8 Year 2	4264902.78	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y2_02	646281.39 Area 8 Year 2	4264901.72	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_03	646410.54 Area 8 Year 2	4264902.78	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_04	646378.76 Area 8 Year 2	4264902.71	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_05	646313.39 Area 8 Year 2	4264901.91	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_06	646346.67 Area 8 Year 2	4264868.95	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_07	646282.14 Area 8 Year 2	4264867.89	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_08	646411.29 Area 8 Year 2	4264868.96	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_09	646379.50 Area 8 Year 2	4264868.88	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_10	646314.13 Area 8 Year 2	4264868.09	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_11	646346.30 Area 8 Year 2	4264837.03	19.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_12	646281.76 Area 8 Year 2	4264835.96	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_13	646410.91 Area 8 Year 2	4264837.03	19.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_14	646379.13 Area 8 Year 2	4264836.96	19.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y2_15	646313.76 Area 8 Year 2	4264836.16	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_16	646060.20 Area 8 Year 2	4264707.29	19.37	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_17	646282.51 Area 8 Year 2	4264802.14	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_18	646124.81 Area 8 Year 2	4264707.29	19.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_19	646093.03 Area 8 Year 2	4264707.22	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_20	646165.31 Area 8 Year 2	4264735.73	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_21	646087.68 Area 8 Year 2	4264673.65	19.61	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_22	646040.02 Area 8 Year 2	4264638.84	19.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_23	646139.25 Area 8 Year 2	4264720.20	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_24	646120.51 Area 8 Year 2	4264673.58	19.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_25	646055.14 Area 8 Year 2	4264672.78	19.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_26	646184.35 Area 8 Year 2	4264867.15	19.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_27	646121.92 Area 8 Year 2	4264790.38	19.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y2_28	646248.96 Area 8 Year 2	4264867.15	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_29	646217.18 Area 8 Year 2	4264867.08	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_30	646250.14 Area 8 Year 2	4264898.09	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_31	646185.76 Area 8 Year 2	4264835.22	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_32	646121.55 Area 8 Year 2	4264758.45	19.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_33	646250.37 Area 8 Year 2	4264835.23	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_34	646218.59 Area 8 Year 2	4264835.15	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_35	646153.21 Area 8 Year 2	4264834.35	19.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_36	646186.50 Area 8 Year 2	4264801.39	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_37	646084.99 Area 8 Year 2	4264771.70	19.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_38	646251.11 Area 8 Year 2	4264801.40	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_39	646219.33 Area 8 Year 2	4264801.32	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_40	646153.96 Area 8 Year 2	4264800.53	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y2_41	646184.41 Area 8 Year 2	4264767.29	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_42	646095.87 Area 8 Year 2	4264736.84	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_43	646062.53 Area 8 Year 2	4264737.10	19.39	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_44	646217.24 Area 8 Year 2	4264767.22	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_45	646151.87 Area 8 Year 2	4264766.42	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_46	646036.67 Area 8 Year 2	4264539.89	18.80	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_47	646037.65 Area 8 Year 2	4264475.35	19.23	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_48	646036.74 Area 8 Year 2	4264604.50	19.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_49	646036.78 Area 8 Year 2	4264572.72	18.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_50	646037.50 Area 8 Year 2	4264507.35	19.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_51	646068.60 Area 8 Year 2	4264539.48	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_52	646069.58 Area 8 Year 2	4264474.94	19.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_53	646068.67 Area 8 Year 2	4264604.09	19.44	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y2_54	646068.71 Area 8 Year 2	4264572.31	19.10	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_55	646069.42 Area 8 Year 2	4264506.94	19.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_56	646102.42 Area 8 Year 2	4264540.18	19.54	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_57	646103.41 Area 8 Year 2	4264475.64	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_58	646102.50 Area 8 Year 2	4264604.80	19.80	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_59	646102.53 Area 8 Year 2	4264573.01	19.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_60	646103.25 Area 8 Year 2	4264507.64	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_61	646074.02 Area 8 Year 2	4264639.09	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_62	646108.68 Area 8 Year 2	4264639.28	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_63	646118.40 Area 8 Year 2	4264811.52	19.65	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y2_64	646127.33 Area 8 Year 2	4264739.95	19.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_01	646053.03 Area 8 Year 3	4264862.01	18.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_02	646071.89 Area 8 Year 3	4264897.32	18.65	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y3_03	646117.65 Area 8 Year 3	4264862.02	19.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_04	646085.86 Area 8 Year 3	4264861.94	19.02	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_05	646103.89 Area 8 Year 3	4264897.52	18.97	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_06	646345.92 Area 8 Year 3	4264966.33	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_07	646281.38 Area 8 Year 3	4264965.27	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_08	646410.53 Area 8 Year 3	4264966.34	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_09	646378.75 Area 8 Year 3	4264966.26	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_10	646313.38 Area 8 Year 3	4264965.47	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_11	646345.55 Area 8 Year 3	4264934.41	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_12	646281.01 Area 8 Year 3	4264933.34	19.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_13	646410.16 Area 8 Year 3	4264934.41	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_14	646378.38 Area 8 Year 3	4264934.34	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_15	646313.01 Area 8 Year 3	4264933.54	19.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y3_16	646046.87 Area 8 Year 3	4264773.01	19.21	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_17	646114.78 Area 8 Year 3	4264835.57	19.41	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_18	645983.88 Area 8 Year 3	4264706.74	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_19	646084.15 Area 8 Year 3	4264828.89	19.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_20	645935.29 Area 8 Year 3	4264686.71	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_21	645982.00 Area 8 Year 3	4264735.07	19.09	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_22	645984.07 Area 8 Year 3	4264638.84	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_23	645951.72 Area 8 Year 3	4264655.57	18.80	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_24	645981.08 Area 8 Year 3	4264670.02	18.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_25	646041.82 Area 8 Year 3	4264738.50	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_26	646116.15 Area 8 Year 3	4264920.30	19.02	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_27	645986.99 Area 8 Year 3	4264777.82	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_28	646248.21 Area 8 Year 3	4264964.53	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y3_29	646216.43 Area 8 Year 3	4264964.46	19.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_30	646233.36 Area 8 Year 3	4264909.68	19.76	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_31	646185.00 Area 8 Year 3	4264932.60	19.42	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_32	645968.79 Area 8 Year 3	4264754.90	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_33	646249.61 Area 8 Year 3	4264932.61	19.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_34	646217.83 Area 8 Year 3	4264932.53	19.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_35	646152.46 Area 8 Year 3	4264931.73	19.22	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_36	646167.98 Area 8 Year 3	4264899.66	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_37	646052.13 Area 8 Year 3	4264831.20	18.82	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_38	646186.41 Area 8 Year 3	4264956.51	19.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_39	646200.81 Area 8 Year 3	4264899.59	19.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_40	646135.44 Area 8 Year 3	4264898.80	19.28	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_41	646183.65 Area 8 Year 3	4264864.67	19.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y3_42	646082.55 Area 8 Year 3	4264802.56	19.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_43	646049.20 Area 8 Year 3	4264802.82	19.05	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_44	645945.61 Area 8 Year 3	4264718.06	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_45	646151.11 Area 8 Year 3	4264863.80	19.57	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_46	645980.72 Area 8 Year 3	4264539.89	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_47	645981.70 Area 8 Year 3	4264475.35	18.98	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_48	645980.79 Area 8 Year 3	4264604.50	18.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_49	645980.83 Area 8 Year 3	4264572.72	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_50	645981.55 Area 8 Year 3	4264507.35	18.36	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_51	646012.65 Area 8 Year 3	4264539.48	18.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_52	646013.63 Area 8 Year 3	4264474.94	19.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_53	646012.72 Area 8 Year 3	4264604.09	18.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_54	646012.76 Area 8 Year 3	4264572.31	18.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y3_55	646013.47 Area 8 Year 3	4264506.94	18.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_56	646015.39 Area 8 Year 3	4264735.85	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_57	646016.37 Area 8 Year 3	4264672.81	19.22	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_58	646015.46 Area 8 Year 3	4264801.96	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_59	646015.50 Area 8 Year 3	4264770.18	19.06	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_60	646016.21 Area 8 Year 3	4264704.80	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_61	646018.07 Area 8 Year 3	4264639.09	19.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_62	646021.65 Area 8 Year 3	4264836.44	18.68	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_63	645925.68 Area 8 Year 3	4264655.22	18.80	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y3_64	645961.67 Area 8 Year 3	4264685.94	18.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_01	645975.77 Area 8 Year 4	4264879.78	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_02	645943.99 Area 8 Year 4	4264971.04	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_03	645978.21 Area 8 Year 4	4264937.51	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y4_04	645946.43 Area 8 Year 4	4264937.44	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_05	645975.99 Area 8 Year 4	4264971.23	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_06	646206.48 Area 8 Year 4	4265041.83	19.10	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_07	646141.94 Area 8 Year 4	4265040.76	18.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_08	646271.09 Area 8 Year 4	4265037.65	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_09	646239.31 Area 8 Year 4	4265037.58	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_10	646173.94 Area 8 Year 4	4265040.96	18.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_11	646206.11 Area 8 Year 4	4265009.90	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_12	646141.57 Area 8 Year 4	4265008.84	18.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_13	646270.72 Area 8 Year 4	4265002.59	19.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_14	646238.94 Area 8 Year 4	4265002.51	19.32	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_15	646173.57 Area 8 Year 4	4265009.03	19.11	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_16	645969.61 Area 8 Year 4	4264790.77	18.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y4_17	645975.35 Area 8 Year 4	4264911.07	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_18	646111.70 Area 8 Year 4	4264977.61	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_19	645944.71 Area 8 Year 4	4264904.38	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_20	645947.19 Area 8 Year 4	4265007.07	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_21	646406.53 Area 8 Year 4	4265005.81	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_22	646011.11 Area 8 Year 4	4264906.82	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_23	645983.20 Area 8 Year 4	4265036.28	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_24	646107.41 Area 8 Year 4	4264943.89	18.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_25	646014.83 Area 8 Year 4	4265042.69	18.41	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_26	645980.26 Area 8 Year 4	4265002.01	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_27	646369.72 Area 8 Year 4	4265016.86	19.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_28	646108.77 Area 8 Year 4	4265040.03	18.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_29	646076.99 Area 8 Year 4	4265039.95	18.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y4_30	646335.50 Area 8 Year 4	4265005.60	19.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_31	646045.56 Area 8 Year 4	4265008.09	18.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_32	646370.23 Area 8 Year 4	4265004.47	19.50	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_33	646110.17 Area 8 Year 4	4265008.10	18.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_34	646078.39 Area 8 Year 4	4265008.02	18.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_35	646013.02 Area 8 Year 4	4265007.23	18.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_36	646040.09 Area 8 Year 4	4264973.38	18.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_37	645974.87 Area 8 Year 4	4264848.96	18.37	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_38	646045.34 Area 8 Year 4	4265045.07	18.39	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_39	646077.42 Area 8 Year 4	4264974.81	18.63	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_40	646007.55 Area 8 Year 4	4264972.51	18.35	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_41	646044.22 Area 8 Year 4	4264940.16	18.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_42	645943.11 Area 8 Year 4	4264878.06	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y4_43	645978.98 Area 8 Year 4	4264821.13	18.54	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_44	645936.93 Area 8 Year 4	4264747.35	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_45	646011.67 Area 8 Year 4	4264939.30	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_46	645942.58 Area 8 Year 4	4264845.22	18.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_47	645941.93 Area 8 Year 4	4264778.52	18.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_48	646007.84 Area 8 Year 4	4264872.49	18.31	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_49	646007.87 Area 8 Year 4	4264840.70	18.57	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_50	645943.40 Area 8 Year 4	4264812.68	18.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_51	646076.31 Area 8 Year 4	4264942.86	18.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_52	646174.94 Area 8 Year 4	4264976.34	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_53	646039.76 Area 8 Year 4	4264872.08	18.55	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_54	646072.53 Area 8 Year 4	4264919.66	18.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_55	646206.94 Area 8 Year 4	4264976.12	19.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	8Y4_56	646406.17 Area 8 Year 4	4265020.67	19.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_57	646137.47 Area 8 Year 4	4264953.98	19.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_58	646301.03 Area 8 Year 4	4265004.14	19.41	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_59	646334.34 Area 8 Year 4	4265023.30	19.22	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_60	646142.54 Area 8 Year 4	4264978.67	18.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_61	646045.12 Area 8 Year 4	4264907.07	18.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_62	646304.08 Area 8 Year 4	4265036.54	19.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_63	645960.98 Area 8 Year 4	4265030.47	18.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	8Y4_64	646158.34 Area 8 Year 4	4264962.81	19.15	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_01	646713.13 Area 9 East Year 01	4263135.83	23.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_02	646739.00 Area 9 East Year 01	4263118.60	23.97	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_03	646739.07 Area 9 East Year 01	4263158.58	24.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_04	646761.33 Area 9 East Year 01	4263091.35	24.05	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY1_05	646764.94 Area 9 East Year 01	4263124.37	24.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_06	646772.41 Area 9 East Year 01	4263153.36	24.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_07	646786.81 Area 9 East Year 01	4263073.52	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_08	646804.36 Area 9 East Year 01	4263120.06	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_09	646804.98 Area 9 East Year 01	4263153.11	23.96	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_10	646807.25 Area 9 East Year 01	4263059.21	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_11	646815.32 Area 9 East Year 01	4263092.68	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_12	646835.14 Area 9 East Year 01	4263114.84	24.19	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_13	646899.79 Area 9 East Year 01	4263062.53	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_14	646835.96 Area 9 East Year 01	4263059.54	24.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_15	646850.73 Area 9 East Year 01	4263094.65	24.35	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_16	646867.22 Area 9 East Year 01	4263059.54	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_17	646927.23 Area 9 East Year 01	4263063.56	24.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY1_18	646772.75 Area 9 East Year 01	4263218.30	23.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_19	646766.28 Area 9 East Year 01	4263182.74	23.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_20	646798.73 Area 9 East Year 01	4263184.51	23.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_21	646957.21 Area 9 East Year 01	4263064.36	23.75	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_22	646805.55 Area 9 East Year 01	4263215.56	23.36	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_23	646840.96 Area 9 East Year 01	4263149.29	24.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_24	646830.46 Area 9 East Year 01	4263178.17	23.98	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_25	646835.46 Area 9 East Year 01	4263206.53	23.54	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_26	646863.39 Area 9 East Year 01	4263128.98	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_27	646867.67 Area 9 East Year 01	4263162.11	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_28	646863.56 Area 9 East Year 01	4263190.38	23.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_29	646890.10 Area 9 East Year 01	4263135.31	24.32	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_30	646894.59 Area 9 East Year 01	4263169.68	24.04	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY1_31	646921.37 Area 9 East Year 01	4263135.30	23.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_32	646884.24 Area 9 East Year 01	4263096.50	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_33	646915.74 Area 9 East Year 01	4263097.53	24.35	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_34	646947.00 Area 9 East Year 01	4263097.52	23.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY1_35	646787.64 Area 9 East Year 01	4263103.93	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_01	646790.62 Area 9 East Year 02	4263272.18	22.67	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_02	646828.44 Area 9 East Year 02	4263266.60	22.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_03	646957.08 Area 9 East Year 02	4263135.78	23.33	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_04	646841.17 Area 9 East Year 02	4263240.18	23.01	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_05	646856.73 Area 9 East Year 02	4263286.34	22.54	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_06	646938.94 Area 9 East Year 02	4263200.15	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_07	646872.12 Area 9 East Year 02	4263255.92	22.67	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_08	646976.99 Area 9 East Year 02	4263099.55	23.42	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY2_09	646873.29 Area 9 East Year 02	4263221.87	23.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_10	646985.21 Area 9 East Year 02	4263066.04	23.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_11	647043.47 Area 9 East Year 02	4263100.35	23.02	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_12	646935.11 Area 9 East Year 02	4263166.60	23.32	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_13	647042.89 Area 9 East Year 02	4263066.73	23.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_14	647013.92 Area 9 East Year 02	4263066.38	23.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_15	646790.69 Area 9 East Year 02	4263302.87	22.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_16	646960.30 Area 9 East Year 02	4263167.26	22.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_17	647043.73 Area 9 East Year 02	4263135.02	22.96	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_18	646823.38 Area 9 East Year 02	4263294.29	22.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_19	646904.33 Area 9 East Year 02	4263230.17	22.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_20	646939.68 Area 9 East Year 02	4263229.24	22.63	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY2_21	647010.17 Area 9 East Year 02	4263100.02	22.96	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY2_22	646924.51	4263289.16	22.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_23	646905.73	4263199.37	23.19	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_24	646974.62	4263230.12	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_25	646808.48	4263241.92	22.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_26	646984.81	4263138.40	23.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_27	646780.09	4263252.02	22.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_28	647003.80	4263199.84	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_29	646904.73	4263259.42	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_30	646973.61	4263199.49	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_31	646939.18	4263259.31	22.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_32	646994.16	4263169.24	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_33	647009.86	4263133.71	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								
VOLUME	9EY2_34	647025.04	4263168.45	22.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 02								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY2_35	646887.14 Area 9 East Year 02	4263281.79	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_01	646850.07 Area 9 East Year 03	4263319.83	22.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_02	646881.81 Area 9 East Year 03	4263347.35	22.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_03	647072.31 Area 9 East Year 03	4263136.09	23.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_04	646886.43 Area 9 East Year 03	4263311.21	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_05	646918.06 Area 9 East Year 03	4263351.82	22.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_06	646987.08 Area 9 East Year 03	4263258.31	23.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_07	646917.46 Area 9 East Year 03	4263319.98	22.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_08	647096.55 Area 9 East Year 03	4263101.67	23.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_09	647095.90 Area 9 East Year 03	4263206.27	23.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_10	647096.39 Area 9 East Year 03	4263066.48	23.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_11	647079.40 Area 9 East Year 03	4263063.77	23.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_12	647062.19 Area 9 East Year 03	4263204.17	23.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY3_13	646845.95 Area 9 East Year 03	4263354.22	22.57	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_14	647125.10 Area 9 East Year 03	4263066.81	23.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_15	647031.59 Area 9 East Year 03	4263204.35	23.14	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_16	647076.25 Area 9 East Year 03	4263098.53	23.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_17	647080.72 Area 9 East Year 03	4263239.93	23.71	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_18	646949.75 Area 9 East Year 03	4263337.01	22.98	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_19	646958.88 Area 9 East Year 03	4263271.61	22.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_20	646988.36 Area 9 East Year 03	4263289.95	23.39	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_21	647128.89 Area 9 East Year 03	4263102.97	23.52	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_22	646982.89 Area 9 East Year 03	4263320.24	23.67	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_23	647011.41 Area 9 East Year 03	4263237.45	23.10	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_24	647018.28 Area 9 East Year 03	4263269.88	23.61	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_25	647049.08 Area 9 East Year 03	4263286.70	24.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY3_26	647055.28 Area 9 East Year 03	4263171.96	23.10	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_27	647055.00 Area 9 East Year 03	4263263.90	23.93	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_28	646951.74 Area 9 East Year 03	4263309.24	23.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_29	647043.62 Area 9 East Year 03	4263238.23	23.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_30	647019.57 Area 9 East Year 03	4263299.03	24.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_31	647088.58 Area 9 East Year 03	4263169.67	23.42	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_32	647097.48 Area 9 East Year 03	4263138.13	23.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_33	647117.79 Area 9 East Year 03	4263168.89	23.50	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_34	647125.51 Area 9 East Year 03	4263134.85	23.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY3_35	646819.48 Area 9 East Year 03	4263328.21	22.19	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_01	646912.83 Area 9 East Year 04	4263377.28	22.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_02	646946.81 Area 9 East Year 04	4263401.29	22.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_03	647070.86 Area 9 East Year 04	4263292.85	24.33	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY4_04	646946.29 Area 9 East Year 04	4263368.03	22.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_05	647142.65 Area 9 East Year 04	4263260.23	23.98	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_06	647054.44 Area 9 East Year 04	4263311.56	24.37	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_07	646977.43 Area 9 East Year 04	4263355.77	23.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_08	647155.61 Area 9 East Year 04	4263103.01	23.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_09	647147.66 Area 9 East Year 04	4263169.10	23.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_10	647155.45 Area 9 East Year 04	4263067.82	23.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_11	647127.33 Area 9 East Year 04	4263221.51	23.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_12	647124.27 Area 9 East Year 04	4263280.54	24.04	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_13	646912.92 Area 9 East Year 04	4263403.57	23.15	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_14	647184.16 Area 9 East Year 04	4263068.15	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_15	647096.21 Area 9 East Year 04	4263270.85	23.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_16	646977.50 Area 9 East Year 04	4263392.55	23.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY4_17	647168.48 Area 9 East Year 04	4263201.09	23.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_18	647037.74 Area 9 East Year 04	4263366.86	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_19	647007.83 Area 9 East Year 04	4263347.10	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_20	647036.67 Area 9 East Year 04	4263331.89	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_21	647186.74 Area 9 East Year 04	4263103.10	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_22	646881.06 Area 9 East Year 04	4263408.74	23.14	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_23	647084.04 Area 9 East Year 04	4263338.87	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_24	647063.25 Area 9 East Year 04	4263353.34	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_25	646848.21 Area 9 East Year 04	4263384.09	22.80	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_26	647113.91 Area 9 East Year 04	4263241.32	23.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_27	646847.11 Area 9 East Year 04	4263410.85	22.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_28	647009.13 Area 9 East Year 04	4263381.55	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_29	647102.94 Area 9 East Year 04	4263309.64	24.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY4_30	646880.42 Area 9 East Year 04	4263383.99	22.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_31	647157.79 Area 9 East Year 04	4263230.69	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_32	647154.72 Area 9 East Year 04	4263137.05	23.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_33	647133.87 Area 9 East Year 04	4263194.18	23.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_34	647184.56 Area 9 East Year 04	4263136.19	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY4_35	647174.55 Area 9 East Year 04	4263169.52	23.98	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_01	646962.53 Area 9 East Year 05	4263426.13	23.54	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_02	647010.34 Area 9 East Year 05	4263436.66	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_03	647132.88 Area 9 East Year 05	4263363.22	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_04	647007.20 Area 9 East Year 05	4263408.61	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_05	646857.13 Area 9 East Year 05	4263453.71	22.70	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_06	647105.70 Area 9 East Year 05	4263379.80	24.28	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_07	647048.65 Area 9 East Year 05	4263388.17	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY5_08	647216.70 Area 9 East Year 05	4263102.94	24.11	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_09	647231.06 Area 9 East Year 05	4263204.69	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_10	647216.54 Area 9 East Year 05	4263067.76	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_11	647187.73 Area 9 East Year 05	4263234.83	24.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_12	647151.25 Area 9 East Year 05	4263293.85	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_13	646977.54 Area 9 East Year 05	4263438.52	23.85	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_14	647245.25 Area 9 East Year 05	4263068.09	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_15	647159.21 Area 9 East Year 05	4263335.10	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_16	647040.66 Area 9 East Year 05	4263412.78	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_17	647219.95 Area 9 East Year 05	4263236.84	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_18	647206.52 Area 9 East Year 05	4263170.47	24.31	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_19	647075.90 Area 9 East Year 05	4263399.66	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_20	647083.15 Area 9 East Year 05	4263369.76	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY5_21	647249.05 Area 9 East Year 05	4263104.24	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_22	646941.43 Area 9 East Year 05	4263449.59	23.44	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_23	647110.97 Area 9 East Year 05	4263346.34	24.21	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_24	647237.25 Area 9 East Year 05	4263170.81	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_25	646887.72 Area 9 East Year 05	4263441.15	23.11	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_26	647181.22 Area 9 East Year 05	4263300.20	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_27	646898.04 Area 9 East Year 05	4263452.05	23.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_28	646848.93 Area 9 East Year 05	4263441.04	22.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_29	647131.00 Area 9 East Year 05	4263320.37	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_30	646929.60 Area 9 East Year 05	4263437.98	23.32	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_31	647206.58 Area 9 East Year 05	4263268.58	24.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_32	647214.60 Area 9 East Year 05	4263137.59	24.11	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_33	647199.22 Area 9 East Year 05	4263204.25	24.23	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY5_34	647245.66 Area 9 East Year 05	4263136.12	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY5_35	647173.71 Area 9 East Year 05	4263266.77	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_01	646980.89 Area 9 East Year 06	4263463.70	23.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_02	647143.25 Area 9 East Year 06	4263420.45	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_03	647174.35 Area 9 East Year 06	4263361.21	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_04	647012.59 Area 9 East Year 06	4263488.71	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_05	646882.20 Area 9 East Year 06	4263503.01	22.44	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_06	647147.17 Area 9 East Year 06	4263388.51	24.22	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_07	647082.61 Area 9 East Year 06	4263427.45	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_08	647280.62 Area 9 East Year 06	4263105.13	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_09	647267.87 Area 9 East Year 06	4263236.12	24.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_10	647280.46 Area 9 East Year 06	4263069.94	24.15	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_11	647243.64 Area 9 East Year 06	4263247.18	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY6_12	647227.92 Area 9 East Year 06	4263337.11	24.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_13	646980.46 Area 9 East Year 06	4263495.14	23.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_14	647016.58 Area 9 East Year 06	4263463.96	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_15	647206.55 Area 9 East Year 06	4263326.39	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_16	647082.17 Area 9 East Year 06	4263458.77	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_17	647258.63 Area 9 East Year 06	4263266.50	24.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_18	647274.96 Area 9 East Year 06	4263178.34	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_19	647111.47 Area 9 East Year 06	4263447.04	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_20	647115.36 Area 9 East Year 06	4263414.62	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_21	647050.58 Area 9 East Year 06	4263443.99	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_22	646948.60 Area 9 East Year 06	4263500.30	23.21	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_23	647178.21 Area 9 East Year 06	4263394.11	24.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_24	647219.08 Area 9 East Year 06	4263305.63	24.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY6_25	646906.09 Area 9 East Year 06	4263478.72	22.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_26	647238.36 Area 9 East Year 06	4263278.34	24.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_27	646914.66 Area 9 East Year 06	4263502.41	22.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_28	646867.30 Area 9 East Year 06	4263478.62	22.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_29	647206.00 Area 9 East Year 06	4263363.62	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_30	646947.96 Area 9 East Year 06	4263475.55	23.42	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_31	647248.59 Area 9 East Year 06	4263300.35	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_32	647281.55 Area 9 East Year 06	4263141.59	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_33	647263.88 Area 9 East Year 06	4263204.39	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_34	647047.19 Area 9 East Year 06	4263475.87	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY6_35	647047.19 Area 9 East Year 06	4263475.87	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_01	647038.51 Area 9 East Year 07	4263504.01	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_02	646962.05 Area 9 East Year 07	4263530.78	23.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY7_03	647227.38 Area 9 East Year 07	4263400.78	24.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_04	647079.62 Area 9 East Year 07	4263486.33	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_05	646933.90 Area 9 East Year 07	4263540.37	22.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_06	647205.38 Area 9 East Year 07	4263430.75	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_07	647146.24 Area 9 East Year 07	4263447.94	24.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_08	647319.64 Area 9 East Year 07	4263135.44	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_09	647322.29 Area 9 East Year 07	4263073.04	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_10	647324.42 Area 9 East Year 07	4263107.15	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_11	647286.56 Area 9 East Year 07	4263289.65	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_12	647260.34 Area 9 East Year 07	4263329.40	24.32	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_13	646983.84 Area 9 East Year 07	4263535.45	23.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_14	647080.65 Area 9 East Year 07	4263502.00	24.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_15	647245.58 Area 9 East Year 07	4263375.18	24.10	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY7_16	647145.80 Area 9 East Year 07	4263479.26	25.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_17	647316.25 Area 9 East Year 07	4263275.46	24.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_18	647331.98 Area 9 East Year 07	4263191.39	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_19	647174.11 Area 9 East Year 07	4263453.73	24.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_20	647178.00 Area 9 East Year 07	4263421.31	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_21	647115.35 Area 9 East Year 07	4263493.87	24.80	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_22	647021.01 Area 9 East Year 07	4263526.81	24.23	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_23	647205.75 Area 9 East Year 07	4263399.91	24.33	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_24	646890.35 Area 9 East Year 07	4263537.54	22.19	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_25	647271.21 Area 9 East Year 07	4263349.71	24.36	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_26	647294.59 Area 9 East Year 07	4263315.64	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_27	647058.06 Area 9 East Year 07	4263516.89	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_28	646913.58 Area 9 East Year 07	4263531.64	22.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY7_29	647338.26 Area 9 East Year 07	4263157.53	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_30	646999.66 Area 9 East Year 07	4263512.91	24.11	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_31	647292.95 Area 9 East Year 07	4263256.08	24.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_32	647304.45 Area 9 East Year 07	4263213.61	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_33	647321.40 Area 9 East Year 07	4263240.96	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_34	647109.98 Area 9 East Year 07	4263471.52	24.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY7_35	647312.15 Area 9 East Year 07	4263176.35	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_01	647032.59 Area 9 East Year 08	4263548.76	24.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_02	647038.38 Area 9 East Year 08	4263562.62	24.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_03	647257.97 Area 9 East Year 08	4263409.11	24.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_04	647076.67 Area 9 East Year 08	4263554.48	24.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_05	646902.48 Area 9 East Year 08	4263569.74	22.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_06	647234.29 Area 9 East Year 08	4263439.08	24.65	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY8_07	647150.19 Area 9 East Year 08	4263494.40	25.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_08	647356.89 Area 9 East Year 08	4263134.06	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_09	647356.81 Area 9 East Year 08	4263072.42	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_10	647357.73 Area 9 East Year 08	4263103.80	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_11	647320.74 Area 9 East Year 08	4263331.99	24.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_12	647285.56 Area 9 East Year 08	4263370.72	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_13	646999.02 Area 9 East Year 08	4263571.75	23.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_14	647071.57 Area 9 East Year 08	4263535.17	24.57	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_15	647385.43 Area 9 East Year 08	4263071.61	24.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_16	647141.87 Area 9 East Year 08	4263524.50	25.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_17	647351.83 Area 9 East Year 08	4263264.32	24.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_18	647363.37 Area 9 East Year 08	4263212.05	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_19	647179.04 Area 9 East Year 08	4263513.99	25.96	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY8_20	647182.93 Area 9 East Year 08	4263481.57	25.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_21	647104.22 Area 9 East Year 08	4263523.08	25.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_22	646966.56 Area 9 East Year 08	4263570.86	23.02	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_23	647265.87 Area 9 East Year 08	4263436.69	24.71	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_24	647384.47 Area 9 East Year 08	4263137.20	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_25	647385.30 Area 9 East Year 08	4263104.66	24.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_26	647318.68 Area 9 East Year 08	4263365.58	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_27	646935.70 Area 9 East Year 08	4263570.74	22.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_28	647385.29 Area 9 East Year 08	4263188.07	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_29	647290.41 Area 9 East Year 08	4263403.65	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_30	647004.07 Area 9 East Year 08	4263559.43	23.73	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_31	647345.63 Area 9 East Year 08	4263321.06	24.65	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_32	647368.29 Area 9 East Year 08	4263166.67	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY8_33	647371.21 Area 9 East Year 08	4263237.66	24.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_34	647112.94 Area 9 East Year 08	4263541.63	25.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY8_35	647350.07 Area 9 East Year 08	4263291.70	24.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_01	647067.68 Area 9 East Year 09	4263582.55	24.50	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_02	646973.96 Area 9 East Year 09	4263597.69	23.04	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_03	647321.65 Area 9 East Year 09	4263411.28	24.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_04	647094.60 Area 9 East Year 09	4263591.05	25.31	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_05	646937.58 Area 9 East Year 09	4263597.82	22.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_06	647297.97 Area 9 East Year 09	4263441.24	25.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_07	647184.88 Area 9 East Year 09	4263545.35	26.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_08	647418.69 Area 9 East Year 09	4263161.86	24.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_09	647417.25 Area 9 East Year 09	4263074.12	24.70	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_10	647417.70 Area 9 East Year 09	4263119.97	24.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY9_11	647397.98 Area 9 East Year 09	4263333.48	24.71	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_12	647338.34 Area 9 East Year 09	4263380.43	24.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_13	647029.53 Area 9 East Year 09	4263611.48	24.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_14	647110.31 Area 9 East Year 09	4263568.81	25.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_15	647440.72 Area 9 East Year 09	4263073.78	24.87	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_16	647132.47 Area 9 East Year 09	4263576.54	25.97	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_17	647412.54 Area 9 East Year 09	4263271.91	24.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_18	647429.56 Area 9 East Year 09	4263226.79	24.75	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_19	647384.38 Area 9 East Year 09	4263316.31	24.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_20	647364.62 Area 9 East Year 09	4263347.17	24.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_21	647156.89 Area 9 East Year 09	4263553.16	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_22	646992.20 Area 9 East Year 09	4263614.13	23.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_23	647333.73 Area 9 East Year 09	4263427.97	24.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY9_24	647437.95 Area 9 East Year 09	4263147.84	24.83	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_25	647438.17 Area 9 East Year 09	4263100.55	24.83	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_26	647372.68 Area 9 East Year 09	4263364.78	24.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_27	646953.78 Area 9 East Year 09	4263616.73	22.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_28	647442.26 Area 9 East Year 09	4263181.02	24.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_29	647364.14 Area 9 East Year 09	4263397.43	24.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_30	647018.82 Area 9 East Year 09	4263592.73	23.93	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_31	647414.33 Area 9 East Year 09	4263300.60	24.69	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_32	647416.27 Area 9 East Year 09	4263199.16	24.61	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_33	647404.71 Area 9 East Year 09	4263240.66	24.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_34	647061.30 Area 9 East Year 09	4263604.19	24.75	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY9_35	647385.84 Area 9 East Year 09	4263283.34	24.67	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_01	647054.31 Area 9 East Year 10	4263635.19	25.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY10_02	646981.97 Area 9 East Year 10	4263646.68	23.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_03	647159.18 Area 9 East Year 10	4263594.52	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_04	647109.97 Area 9 East Year 10	4263636.73	25.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_05	647010.91 Area 9 East Year 10	4263656.17	24.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_06	647355.95 Area 9 East Year 10	4263443.10	25.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_07	647182.64 Area 9 East Year 10	4263575.24	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_08	647473.98 Area 9 East Year 10	4263144.88	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_09	647471.69 Area 9 East Year 10	4263075.58	25.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_10	647473.82 Area 9 East Year 10	4263109.69	25.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_11	647451.59 Area 9 East Year 10	4263345.83	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_12	647409.35 Area 9 East Year 10	4263373.16	24.85	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_13	647076.32 Area 9 East Year 10	4263647.78	25.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_14	647089.71 Area 9 East Year 10	4263620.67	25.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY10_15	647492.65 Area 9 East Year 10	4263073.56	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_16	647182.20 Area 9 East Year 10	4263606.56	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_17	647460.28 Area 9 East Year 10	4263305.22	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_18	647471.43 Area 9 East Year 10	4263219.02	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_19	647438.64 Area 9 East Year 10	4263305.90	24.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_20	647429.40 Area 9 East Year 10	4263339.36	24.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_21	647125.33 Area 9 East Year 10	4263604.53	25.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_22	647040.38 Area 9 East Year 10	4263651.67	25.26	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_23	647387.89 Area 9 East Year 10	4263407.19	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_24	647489.88 Area 9 East Year 10	4263147.62	25.05	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_25	647490.10 Area 9 East Year 10	4263112.06	25.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_26	647438.03 Area 9 East Year 10	4263380.49	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_27	646979.91 Area 9 East Year 10	4263659.78	23.38	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY10_28	647492.51 Area 9 East Year 10	4263190.02	25.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_29	647411.22 Area 9 East Year 10	4263409.35	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_30	647018.95 Area 9 East Year 10	4263643.41	24.67	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_31	647456.50 Area 9 East Year 10	4263270.17	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_32	647474.91 Area 9 East Year 10	4263181.34	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_33	647476.76 Area 9 East Year 10	4263246.31	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_34	647141.54 Area 9 East Year 10	4263623.07	25.82	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY10_35	647384.93 Area 9 East Year 10	4263443.85	25.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_01	647057.76 Area 9 East Year 11	4263680.86	25.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_02	646984.28 Area 9 East Year 11	4263688.65	23.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_03	647450.37 Area 9 East Year 11	4263414.77	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_04	647111.52 Area 9 East Year 11	4263684.18	26.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_05	646972.91 Area 9 East Year 11	4263708.49	22.85	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY11_06	647428.36 Area 9 East Year 11	4263444.74	25.09	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_07	647142.02 Area 9 East Year 11	4263668.51	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_08	647527.11 Area 9 East Year 11	4263147.35	25.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_09	647524.83 Area 9 East Year 11	4263075.54	25.41	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_10	647526.96 Area 9 East Year 11	4263112.17	25.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_11	647512.27 Area 9 East Year 11	4263336.57	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_12	647477.12 Area 9 East Year 11	4263370.51	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_13	647039.33 Area 9 East Year 11	4263703.55	24.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_14	647085.57 Area 9 East Year 11	4263678.59	26.19	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_15	647545.79 Area 9 East Year 11	4263073.52	25.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_16	647182.19 Area 9 East Year 11	4263642.11	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_17	647525.15 Area 9 East Year 11	4263295.96	25.11	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_18	647523.73 Area 9 East Year 11	4263216.47	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY11_19	647499.51 Area 9 East Year 11	4263297.61	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_20	647487.29 Area 9 East Year 11	4263332.66	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_21	647120.54 Area 9 East Year 11	4263660.09	25.93	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_22	647006.21 Area 9 East Year 11	4263705.27	23.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_23	647464.13 Area 9 East Year 11	4263431.46	25.09	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_24	647543.02 Area 9 East Year 11	4263150.10	25.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_25	647543.24 Area 9 East Year 11	4263114.54	25.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_26	647501.22 Area 9 East Year 11	4263367.04	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_27	647072.77 Area 9 East Year 11	4263698.84	25.87	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_28	647545.65 Area 9 East Year 11	4263192.50	25.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_29	647481.96 Area 9 East Year 11	4263398.41	24.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_30	647021.27 Area 9 East Year 11	4263684.16	24.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_31	647511.31 Area 9 East Year 11	4263255.04	25.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY11_32	647528.05 Area 9 East Year 11	4263183.81	25.35	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_33	647539.12 Area 9 East Year 11	4263228.67	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_34	647156.50 Area 9 East Year 11	4263654.50	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY11_35	647531.62 Area 9 East Year 11	4263260.28	25.28	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_01	647049.56 Area 9 East Year 12	4263731.65	24.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_02	646979.34 Area 9 East Year 12	4263740.72	22.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_03	647506.49 Area 9 East Year 12	4263413.49	25.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_04	647109.46 Area 9 East Year 12	4263742.06	24.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_05	646992.94 Area 9 East Year 12	4263759.25	23.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_06	647484.49 Area 9 East Year 12	4263443.46	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_07	647179.87 Area 9 East Year 12	4263677.94	25.93	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_08	647575.59 Area 9 East Year 12	4263146.08	25.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_09	647573.30 Area 9 East Year 12	4263076.78	25.90	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

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Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY12_10	647575.43 Area 9 East Year 12	4263110.89	25.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_11	647576.03 Area 9 East Year 12	4263309.70	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_12	647526.54 Area 9 East Year 12	4263381.81	25.02	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_13	647066.49 Area 9 East Year 12	4263749.32	24.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_14	647078.79 Area 9 East Year 12	4263724.40	25.02	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_15	647594.26 Area 9 East Year 12	4263074.76	26.11	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_16	647179.42 Area 9 East Year 12	4263709.26	26.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_17	647591.23 Area 9 East Year 12	4263274.57	25.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_18	647572.20 Area 9 East Year 12	4263215.20	25.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_19	647564.74 Area 9 East Year 12	4263283.76	25.31	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_20	647556.71 Area 9 East Year 12	4263319.65	25.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_21	647150.55 Area 9 East Year 12	4263698.73	25.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_22	647026.24 Area 9 East Year 12	4263756.03	23.71	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY12_23	647515.22 Area 9 East Year 12	4263442.76	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_24	647591.49 Area 9 East Year 12	4263148.82	25.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_25	647591.71 Area 9 East Year 12	4263113.26	26.09	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_26	647553.05 Area 9 East Year 12	4263382.53	25.14	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_27	647114.89 Area 9 East Year 12	4263712.55	25.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_28	647594.12 Area 9 East Year 12	4263191.22	25.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_29	647536.41 Area 9 East Year 12	4263413.90	25.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_30	647013.48 Area 9 East Year 12	4263736.23	23.65	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_31	647559.78 Area 9 East Year 12	4263253.77	25.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_32	647579.03 Area 9 East Year 12	4263175.83	25.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_33	647591.78 Area 9 East Year 12	4263238.29	25.68	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_34	647149.45 Area 9 East Year 12	4263728.06	25.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY12_35	647550.06 Area 9 East Year 12	4263352.49	25.06	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY13_01	647087.03 Area 9 East Year 13	4263832.90	23.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_02	647026.21 Area 9 East Year 13	4263829.61	23.36	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_03	647567.56 Area 9 East Year 13	4263416.74	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_04	647146.24 Area 9 East Year 13	4263831.67	23.93	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_05	647593.13 Area 9 East Year 13	4263416.39	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_06	647545.02 Area 9 East Year 13	4263443.36	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_07	647594.60 Area 9 East Year 13	4263326.09	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_08	647594.42 Area 9 East Year 13	4263354.13	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_09	647115.09 Area 9 East Year 13	4263832.62	23.70	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_10	647128.78 Area 9 East Year 13	4263809.26	23.96	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_11	647581.73 Area 9 East Year 13	4263353.88	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_12	647180.10 Area 9 East Year 13	4263808.15	24.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9EY13_13	647101.52 Area 9 East Year 13	4263810.09	23.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY13_14	647569.79	4263442.73	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_15	647591.48	4263443.06	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_16	647152.89	4263808.88	24.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_17	647581.56	4263388.69	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_18	647056.44	4263832.42	23.45	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_19	647179.52	4263834.13	24.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_20	647087.57	4263776.81	23.96	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_21	647012.52	4263793.69	23.26	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_22	647153.80	4263779.96	24.23	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_23	647124.05	4263789.48	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_24	647114.70	4263770.48	24.06	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_25	647183.63	4263740.03	25.39	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_26	647062.22	4263781.45	23.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9EY13_27	647146.14	4263758.74	24.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_28	647037.45	4263787.85	23.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_29	647181.72	4263761.92	24.50	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_30	647080.26	4263810.97	23.70	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_31	647020.56	4263812.88	23.33	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_32	647051.54	4263810.85	23.55	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_33	647596.14	4263386.24	25.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_34	647181.40	4263783.36	24.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9EY13_35	647595.46	4263301.29	25.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 East Year 13								
VOLUME	9WY1_01	646621.15	4263074.54	21.87	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_02	646639.30	4263052.68	22.52	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_03	646646.79	4263092.71	22.26	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_04	646671.43	4263037.69	22.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY1_05	646664.95	4263070.85	22.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_06	646673.50	4263105.53	22.85	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_07	646688.38	4263007.88	23.01	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_08	646781.81	4263010.45	23.76	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_09	646691.66	4263083.67	23.09	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_10	646700.43	4263113.10	23.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_11	646717.48	4262982.13	23.29	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_12	646705.55	4263034.52	23.18	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_13	646695.33	4263058.99	23.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_14	646718.58	4263091.24	23.55	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_15	646750.13	4262964.07	23.37	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_16	646727.99	4263014.22	23.41	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_17	646729.84	4263069.74	23.65	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY1_18	646753.13	4263055.67	23.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_19	646784.04	4262985.11	23.67	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_20	646752.95	4262997.22	23.55	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_21	646745.01	4263031.88	23.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_22	646781.58	4263031.91	23.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY1_23	646784.93	4262952.67	23.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 01								
VOLUME	9WY2_01	646672.12	4262976.96	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_02	646730.18	4262940.99	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_03	646783.15	4262918.92	23.45	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_04	646694.56	4262962.00	23.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_05	646711.30	4262934.94	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_06	646592.50	4263074.94	21.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_07	646601.75	4263042.04	22.70	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY2_08	646621.78	4263023.43	22.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_09	646634.87	4263011.05	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_10	646655.17	4262993.96	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_11	646757.46	4262923.31	23.39	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_12	646635.80	4262943.14	22.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_13	646675.43	4262925.77	22.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_14	646719.86	4262893.81	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_15	646663.94	4262954.43	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_16	646699.19	4262908.95	23.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_17	646563.38	4263056.42	21.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_18	646571.92	4263029.22	22.37	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_19	646588.66	4263001.09	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_20	646624.10	4262981.77	22.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY2_21	646612.97	4262966.99	22.68	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_22	646751.11	4262890.39	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY2_23	646782.83	4262888.18	23.31	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 02								
VOLUME	9WY3_01	646628.89	4262909.02	22.71	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_02	646709.08	4262861.57	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_03	646784.93	4262856.19	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_04	646651.32	4262894.06	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_05	646673.76	4262876.96	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_06	646548.55	4263009.13	21.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_07	646561.27	4262980.75	22.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_08	646582.17	4262948.05	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_09	646607.61	4262882.48	22.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_10	646606.95	4262918.89	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY3_11	646667.47	4262844.88	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_12	646697.13	4262828.94	23.05	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_13	646751.53	4262856.80	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_14	646785.08	4262833.36	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_15	646514.45	4263002.01	22.36	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_16	646527.81	4262976.79	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_17	646550.24	4262945.87	22.65	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_18	646577.32	4262917.87	22.62	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_19	646725.10	4262822.76	23.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_20	646637.89	4262859.00	22.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_21	646758.03	4262826.81	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_22	646530.71	4263041.52	21.46	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								
VOLUME	9WY3_23	646499.46	4263037.87	21.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 03								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY4_01	646570.15	4262888.76	22.73	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_02	646629.62	4262839.04	22.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_03	646788.93	4262805.32	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_04	646595.21	4262857.34	22.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_05	646668.48	4262822.42	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_06	646494.06	4262969.53	23.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_07	646513.23	4262942.36	23.05	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_08	646539.61	4262887.84	23.04	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_09	646542.34	4262916.22	22.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_10	646562.98	4262859.38	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_11	646594.18	4262831.13	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_12	646627.96	4262808.02	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_13	646725.15	4262791.30	23.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY4_14	646450.04	4263001.43	23.28	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_15	646468.31	4262969.01	24.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_16	646488.24	4262939.88	24.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_17	646511.19	4262912.27	23.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_18	646662.00	4262796.44	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_19	646693.93	4262792.37	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_20	646465.84	4263031.43	22.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_21	646481.79	4263001.29	23.04	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_22	646757.95	4262795.14	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY4_23	646789.07	4262785.87	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 04								
VOLUME	9WY5_01	646531.29	4262850.67	23.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_02	646595.41	4262799.62	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_03	646660.53	4262763.93	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY5_04	646558.77	4262820.46	22.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_05	646626.55	4262772.00	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_06	646455.19	4262936.89	25.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_07	646476.79	4262907.30	24.85	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_08	646525.56	4262833.41	23.71	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_09	646505.29	4262879.35	24.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_10	646534.40	4262812.82	23.23	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_11	646563.18	4262794.86	22.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_12	646592.12	4262774.77	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_13	646693.58	4262759.51	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_14	646424.49	4262943.97	24.05	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_15	646442.76	4262909.74	24.87	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_16	646476.61	4262880.60	24.89	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY5_17	646501.99	4262851.78	24.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_18	646408.24	4262975.67	22.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_19	646724.75	4262757.40	23.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_20	646420.31	4262999.40	22.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_21	646439.29	4262968.04	24.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_22	646756.32	4262757.48	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY5_23	646789.12	4262754.04	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 05								
VOLUME	9WY6_01	646493.30	4262823.54	24.70	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_02	646566.17	4262762.71	22.81	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_03	646645.41	4262725.34	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_04	646533.13	4262780.98	22.93	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_05	646610.74	4262733.91	22.83	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_06	646411.42	4262910.87	23.99	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY6_07	646443.25	4262877.86	24.82	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_08	646485.13	4262802.85	24.71	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_09	646468.67	4262849.28	25.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_10	646510.31	4262774.88	23.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_11	646544.74	4262752.80	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_12	646583.02	4262742.32	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_13	646665.97	4262723.32	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_14	646411.60	4262884.84	24.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_15	646393.03	4262931.12	22.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_16	646435.90	4262853.56	24.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_17	646458.52	4262828.88	25.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_18	646727.38	4262726.29	22.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_19	646696.36	4262726.90	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY6_20	646382.27	4262959.93	21.67	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_21	646509.87	4262800.53	23.93	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_22	646757.67	4262725.48	23.12	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY6_23	646789.87	4262725.06	23.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 06								
VOLUME	9WY7_01	646488.77	4262766.95	23.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_02	646632.38	4262690.00	22.76	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_03	646727.56	4262687.91	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_04	646517.11	4262737.15	22.84	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_05	646603.21	4262693.03	22.61	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_06	646402.71	4262852.27	23.91	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_07	646429.94	4262817.31	24.39	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_08	646461.25	4262761.79	23.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_09	646408.86	4262820.24	23.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY7_10	646492.75	4262729.51	22.70	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_11	646534.17	4262710.06	22.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_12	646578.73	4262687.00	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_13	646666.66	4262688.95	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_14	646361.15	4262900.94	22.22	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_15	646381.32	4262858.57	23.33	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_16	646430.06	4262785.05	23.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_17	646457.76	4262790.87	24.30	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_18	646558.41	4262711.92	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_19	646697.05	4262688.80	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_20	646363.84	4262928.04	21.78	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_21	646384.26	4262883.71	23.36	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY7_22	646758.36	4262687.39	22.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY7_23	646790.55	4262686.97	22.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 07								
VOLUME	9WY8_01	646471.76	4262711.58	22.52	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_02	646557.14	4262669.20	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_03	646635.74	4262655.42	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_04	646521.18	4262681.25	22.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_05	646728.13	4262653.88	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_06	646377.80	4262811.63	22.74	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_07	646371.17	4262783.58	22.50	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_08	646442.16	4262718.84	22.59	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_09	646404.32	4262752.10	22.63	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_10	646487.85	4262686.25	22.26	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_11	646540.65	4262654.76	22.55	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_12	646576.74	4262648.65	22.56	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY8_13	646668.15	4262653.64	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_14	646353.07	4262852.06	22.28	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_15	646349.51	4262826.55	22.10	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_16	646404.59	4262778.92	22.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_17	646433.49	4262747.26	22.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_18	646610.68	4262649.17	22.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_19	646698.53	4262653.50	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_20	646331.33	4262897.08	21.36	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_21	646331.92	4262866.86	21.68	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_22	646759.85	4262652.08	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY8_23	646792.04	4262651.66	22.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 08								
VOLUME	9WY9_01	646448.72	4262675.87	22.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_02	646532.23	4262645.16	22.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY9_03	646476.95	4262661.28	22.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_04	646271.62	4262828.34	21.10	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_05	646360.21	4262748.68	22.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_06	646316.19	4262741.72	21.66	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_07	646412.61	4262659.37	22.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_08	646388.79	4262674.70	22.05	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_09	646441.25	4262645.00	22.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_10	646503.88	4262644.55	22.32	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_11	646326.40	4262796.98	21.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_12	646297.89	4262765.90	21.53	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_13	646390.02	4262722.03	22.41	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_14	646420.13	4262694.61	22.35	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_15	646301.63	4262852.90	21.21	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY9_16	646313.12	4262823.89	21.33	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_17	646286.88	4262798.40	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_18	646341.96	4262713.88	21.92	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_19	646357.00	4262682.15	21.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_20	646375.60	4262705.31	22.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_21	646472.24	4262645.51	22.25	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_22	646347.17	4262764.25	22.00	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY9_23	646328.14	4262767.95	21.79	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 09								
VOLUME	9WY10_01	646324.16	4262672.71	21.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_02	646396.47	4262639.51	21.95	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_03	646352.39	4262658.12	21.73	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_04	646233.75	4262833.66	21.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_05	646223.38	4262742.74	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY10_06	646240.66	4262713.74	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_07	646297.37	4262640.77	21.47	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_08	646261.20	4262678.80	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_09	646335.25	4262640.81	21.64	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_10	646367.21	4262644.42	21.88	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_11	646197.60	4262804.11	21.08	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_12	646262.44	4262774.26	21.55	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_13	646249.11	4262741.27	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_14	646271.54	4262710.71	21.49	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_15	646180.62	4262864.66	21.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_16	646186.14	4262834.05	21.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_17	646244.16	4262804.33	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_18	646201.54	4262774.12	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY10_19	646301.36	4262704.28	21.60	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_20	646274.01	4262742.22	21.54	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_21	646293.20	4262673.06	21.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_22	646213.29	4262834.26	21.23	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY10_23	646230.73	4262772.32	21.40	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 10								
VOLUME	9WY11_01	646168.70	4262692.79	21.37	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_02	646261.83	4262640.25	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_03	646204.36	4262639.53	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_04	646143.43	4262923.82	20.43	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_05	646129.58	4262792.98	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_06	646139.69	4262762.45	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_07	646185.80	4262670.53	21.45	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_08	646158.60	4262723.61	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY11_09	646232.57 Area 9 West Year 11	4262639.21	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_10	646118.01 Area 9 West Year 11	4262860.75	21.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_11	646147.45 Area 9 West Year 11	4262859.78	21.06	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_12	646169.50 Area 9 West Year 11	4262758.29	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_13	646187.27 Area 9 West Year 11	4262725.36	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_14	646113.16 Area 9 West Year 11	4262929.81	20.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_15	646115.85 Area 9 West Year 11	4262895.81	20.72	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_16	646145.21 Area 9 West Year 11	4262890.63	20.77	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_17	646137.91 Area 9 West Year 11	4262954.06	20.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_18	646204.66 Area 9 West Year 11	4262692.38	21.48	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_19	646226.42 Area 9 West Year 11	4262672.10	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_20	646118.49 Area 9 West Year 11	4262824.98	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
VOLUME	9WY11_21	646113.51 Area 9 West Year 11	4262967.21	20.24	5.00	1.00000	30.00	Surface-Based	6.98	1.00

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY11_22	646162.85	4262794.47	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY11_23	646151.23	4262828.16	21.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 11								
VOLUME	9WY12_01	646085.38	4262692.79	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_02	646170.14	4262637.74	21.20	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_03	646112.67	4262637.01	21.07	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_04	646086.43	4262939.54	20.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_05	646070.91	4262796.13	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_06	646074.06	4262759.38	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_07	646102.48	4262670.53	21.19	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_08	646082.73	4262725.09	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_09	646140.88	4262636.70	21.15	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_10	646061.02	4262876.47	21.22	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_11	646084.59	4262870.46	21.17	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY12_12	646098.84	4262762.76	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_13	646120.61	4262727.69	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_14	646054.49	4262939.66	20.58	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_15	646055.51	4262903.99	20.94	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_16	646088.21	4262906.35	20.83	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_17	646086.12	4262969.77	20.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_18	646126.38	4262698.24	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_19	646146.74	4262667.45	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_20	646066.52	4262838.18	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_21	646060.05	4262973.71	20.23	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_22	646095.81	4262795.11	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY12_23	646095.91	4262829.63	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 12								
VOLUME	9WY13_01	646012.55	4262697.59	21.33	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY13_02	646082.56	4262637.28	21.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_03	646015.77	4262636.78	20.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_04	646027.48	4262928.64	20.86	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_05	646013.25	4262803.79	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_06	646013.12	4262764.04	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_07	646015.06	4262664.81	21.13	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_08	646012.42	4262731.62	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_09	646047.64	4262637.26	21.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_10	646010.22	4262870.95	21.27	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_11	646033.47	4262860.98	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_12	646037.90	4262763.15	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_13	646043.19	4262730.73	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_14	646006.76	4262940.86	20.87	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	9WY13_15	646007.78	4262905.19	21.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_16	646028.36	4262895.38	21.03	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_17	646026.45	4262963.85	20.51	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_18	646044.95	4262696.46	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_19	646052.62	4262667.70	21.16	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_20	646012.68	4262835.80	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_21	646007.89	4262976.96	20.50	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_22	646041.50	4262793.56	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								
VOLUME	9WY13_23	646035.44	4262828.23	21.34	5.00	1.00000	30.00	Surface-Based	6.98	1.00
		Area 9 West Year 13								

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 Pathway

Source Groups

Source Group ID: 9WY13	List of Sources in Group (Source Range or Single Sources)
	9WY13_01
	9WY13_02
	9WY13_03
	9WY13_04
	9WY13_05
	9WY13_06
	9WY13_07
	9WY13_08
	9WY13_09
	9WY13_10
	9WY13_11
	9WY13_12
	9WY13_13
	9WY13_14
	9WY13_15
	9WY13_16
	9WY13_17
	9WY13_18
	9WY13_19
	9WY13_20
	9WY13_21
	9WY13_22
	9WY13_23

Source Group ID: 9WY12	List of Sources in Group (Source Range or Single Sources)
	9WY12_01
	9WY12_02
	9WY12_03
	9WY12_04
	9WY12_05
	9WY12_06
	9WY12_07
	9WY12_08
	9WY12_09
	9WY12_10
	9WY12_11
	9WY12_12
	9WY12_13
	9WY12_14
	9WY12_15
	9WY12_16
	9WY12_17
	9WY12_18
	9WY12_19

	9WY12_20
	9WY12_21
	9WY12_22
	9WY12_23

Source Group ID: **9WY11**	List of Sources in Group (Source Range or Single Sources)
	9WY11_01
	9WY11_02
	9WY11_03
	9WY11_04
	9WY11_05
	9WY11_06
	9WY11_07
	9WY11_08
	9WY11_09
	9WY11_10
	9WY11_11
	9WY11_12
	9WY11_13
	9WY11_14
	9WY11_15
	9WY11_16
	9WY11_17
	9WY11_18
	9WY11_19
	9WY11_20
	9WY11_21
	9WY11_22
	9WY11_23

Source Group ID: **9WY10**	List of Sources in Group (Source Range or Single Sources)
	9WY10_01
	9WY10_02
	9WY10_03
	9WY10_04
	9WY10_05
	9WY10_06
	9WY10_07
	9WY10_08
	9WY10_09
	9WY10_10
	9WY10_11
	9WY10_12
	9WY10_13
	9WY10_14
	9WY10_15
	9WY10_16

	9WY10_17
	9WY10_18
	9WY10_19
	9WY10_20
	9WY10_21
	9WY10_22
	9WY10_23

Source Group ID: **9WY09**	List of Sources in Group (Source Range or Single Sources)
	9WY9_01
	9WY9_02
	9WY9_03
	9WY9_04
	9WY9_05
	9WY9_06
	9WY9_07
	9WY9_08
	9WY9_09
	9WY9_10
	9WY9_11
	9WY9_12
	9WY9_13
	9WY9_14
	9WY9_15
	9WY9_16
	9WY9_17
	9WY9_18
	9WY9_19
	9WY9_20
	9WY9_21
	9WY9_22
	9WY9_23

Source Group ID: **9WY08**	List of Sources in Group (Source Range or Single Sources)
	9WY8_01
	9WY8_02
	9WY8_03
	9WY8_04
	9WY8_05
	9WY8_06
	9WY8_07
	9WY8_08
	9WY8_09
	9WY8_10
	9WY8_11
	9WY8_12
	9WY8_13

	9WY8_14
	9WY8_15
	9WY8_16
	9WY8_17
	9WY8_18
	9WY8_19
	9WY8_20
	9WY8_21
	9WY8_22
	9WY8_23

Source Group ID: **9WY07**	List of Sources in Group (Source Range or Single Sources)
	9WY7_01
	9WY7_02
	9WY7_03
	9WY7_04
	9WY7_05
	9WY7_06
	9WY7_07
	9WY7_08
	9WY7_09
	9WY7_10
	9WY7_11
	9WY7_12
	9WY7_13
	9WY7_14
	9WY7_15
	9WY7_16
	9WY7_17
	9WY7_18
	9WY7_19
	9WY7_20
	9WY7_21
	9WY7_22
	9WY7_23

Source Group ID: **9WY06**	List of Sources in Group (Source Range or Single Sources)
	9WY6_01
	9WY6_02
	9WY6_03
	9WY6_04
	9WY6_05
	9WY6_06
	9WY6_07
	9WY6_08
	9WY6_09
	9WY6_10

	9WY6_11
	9WY6_12
	9WY6_13
	9WY6_14
	9WY6_15
	9WY6_16
	9WY6_17
	9WY6_18
	9WY6_19
	9WY6_20
	9WY6_21
	9WY6_22
	9WY6_23

Source Group ID: **9WY05**	List of Sources in Group (Source Range or Single Sources)
	9WY5_01
	9WY5_02
	9WY5_03
	9WY5_04
	9WY5_05
	9WY5_06
	9WY5_07
	9WY5_08
	9WY5_09
	9WY5_10
	9WY5_11
	9WY5_12
	9WY5_13
	9WY5_14
	9WY5_15
	9WY5_16
	9WY5_17
	9WY5_18
	9WY5_19
	9WY5_20
	9WY5_21
	9WY5_22
	9WY5_23

Source Group ID: **9WY04**	List of Sources in Group (Source Range or Single Sources)
	9WY4_01
	9WY4_02
	9WY4_03
	9WY4_04
	9WY4_05
	9WY4_06
	9WY4_07

	9WY4_08
	9WY4_09
	9WY4_10
	9WY4_11
	9WY4_12
	9WY4_13
	9WY4_14
	9WY4_15
	9WY4_16
	9WY4_17
	9WY4_18
	9WY4_19
	9WY4_20
	9WY4_21
	9WY4_22
	9WY4_23

Source Group ID: **9WY03**	List of Sources in Group (Source Range or Single Sources)
	9WY3_01
	9WY3_02
	9WY3_03
	9WY3_04
	9WY3_05
	9WY3_06
	9WY3_07
	9WY3_08
	9WY3_09
	9WY3_10
	9WY3_11
	9WY3_12
	9WY3_13
	9WY3_14
	9WY3_15
	9WY3_16
	9WY3_17
	9WY3_18
	9WY3_19
	9WY3_20
	9WY3_21
	9WY3_22
	9WY3_23

Source Group ID: **9WY02**	List of Sources in Group (Source Range or Single Sources)
	9WY2_01
	9WY2_02
	9WY2_03
	9WY2_04

	9WY2_05
	9WY2_06
	9WY2_07
	9WY2_08
	9WY2_09
	9WY2_10
	9WY2_11
	9WY2_12
	9WY2_13
	9WY2_14
	9WY2_15
	9WY2_16
	9WY2_17
	9WY2_18
	9WY2_19
	9WY2_20
	9WY2_21
	9WY2_22
	9WY2_23

Source Group ID: **9WY01**	List of Sources in Group (Source Range or Single Sources)
	9WY1_01
	9WY1_02
	9WY1_03
	9WY1_04
	9WY1_05
	9WY1_06
	9WY1_07
	9WY1_08
	9WY1_09
	9WY1_10
	9WY1_11
	9WY1_12
	9WY1_13
	9WY1_14
	9WY1_15
	9WY1_16
	9WY1_17
	9WY1_18
	9WY1_19
	9WY1_20
	9WY1_21
	9WY1_22
	9WY1_23

Source Group ID: **9EY13**	List of Sources in Group (Source Range or Single Sources)
	9EY13_01

	9EY13_02
	9EY13_03
	9EY13_04
	9EY13_05
	9EY13_06
	9EY13_07
	9EY13_08
	9EY13_09
	9EY13_10
	9EY13_11
	9EY13_12
	9EY13_13
	9EY13_14
	9EY13_15
	9EY13_16
	9EY13_17
	9EY13_18
	9EY13_19
	9EY13_20
	9EY13_21
	9EY13_22
	9EY13_23
	9EY13_24
	9EY13_25
	9EY13_26
	9EY13_27
	9EY13_28
	9EY13_29
	9EY13_30
	9EY13_31
	9EY13_32
	9EY13_33
	9EY13_34
	9EY13_35

Source Group ID: **9EY12**	List of Sources in Group (Source Range or Single Sources)
	9EY12_01
	9EY12_02
	9EY12_03
	9EY12_04
	9EY12_05
	9EY12_06
	9EY12_07
	9EY12_08
	9EY12_09
	9EY12_10
	9EY12_11

	List of Sources in Group (Source Range or Single Sources)
	9EY12_12
	9EY12_13
	9EY12_14
	9EY12_15
	9EY12_16
	9EY12_17
	9EY12_18
	9EY12_19
	9EY12_20
	9EY12_21
	9EY12_22
	9EY12_23
	9EY12_24
	9EY12_25
	9EY12_26
	9EY12_27
	9EY12_28
	9EY12_29
	9EY12_30
	9EY12_31
	9EY12_32
	9EY12_33
	9EY12_34
	9EY12_35

Source Group ID: 9EY11	**List of Sources in Group (Source Range or Single Sources)**
	9EY11_01
	9EY11_02
	9EY11_03
	9EY11_04
	9EY11_05
	9EY11_06
	9EY11_07
	9EY11_08
	9EY11_09
	9EY11_10
	9EY11_11
	9EY11_12
	9EY11_13
	9EY11_14
	9EY11_15
	9EY11_16
	9EY11_17
	9EY11_18
	9EY11_19
	9EY11_20
	9EY11_21

	9EY11_22
	9EY11_23
	9EY11_24
	9EY11_25
	9EY11_26
	9EY11_27
	9EY11_28
	9EY11_29
	9EY11_30
	9EY11_31
	9EY11_32
	9EY11_33
	9EY11_34
	9EY11_35

Source Group ID: **9EY10**	List of Sources in Group (Source Range or Single Sources)
	9EY10_01
	9EY10_02
	9EY10_03
	9EY10_04
	9EY10_05
	9EY10_06
	9EY10_07
	9EY10_08
	9EY10_09
	9EY10_10
	9EY10_11
	9EY10_12
	9EY10_13
	9EY10_14
	9EY10_15
	9EY10_16
	9EY10_17
	9EY10_18
	9EY10_19
	9EY10_20
	9EY10_21
	9EY10_22
	9EY10_23
	9EY10_24
	9EY10_25
	9EY10_26
	9EY10_27
	9EY10_28
	9EY10_29
	9EY10_30
	9EY10_31

	9EY10_32
	9EY10_33
	9EY10_34
	9EY10_35

Source Group ID: 9EY09	List of Sources in Group (Source Range or Single Sources)
	9EY9_01
	9EY9_02
	9EY9_03
	9EY9_04
	9EY9_05
	9EY9_06
	9EY9_07
	9EY9_08
	9EY9_09
	9EY9_10
	9EY9_11
	9EY9_12
	9EY9_13
	9EY9_14
	9EY9_15
	9EY9_16
	9EY9_17
	9EY9_18
	9EY9_19
	9EY9_20
	9EY9_21
	9EY9_22
	9EY9_23
	9EY9_24
	9EY9_25
	9EY9_26
	9EY9_27
	9EY9_28
	9EY9_29
	9EY9_30
	9EY9_31
	9EY9_32
	9EY9_33
	9EY9_34
	9EY9_35

Source Group ID: 9EY08	List of Sources in Group (Source Range or Single Sources)
	9EY8_01
	9EY8_02
	9EY8_03
	9EY8_04

	9EY8_05
	9EY8_06
	9EY8_07
	9EY8_08
	9EY8_09
	9EY8_10
	9EY8_11
	9EY8_12
	9EY8_13
	9EY8_14
	9EY8_15
	9EY8_16
	9EY8_17
	9EY8_18
	9EY8_19
	9EY8_20
	9EY8_21
	9EY8_22
	9EY8_23
	9EY8_24
	9EY8_25
	9EY8_26
	9EY8_27
	9EY8_28
	9EY8_29
	9EY8_30
	9EY8_31
	9EY8_32
	9EY8_33
	9EY8_34
	9EY8_35

Source Group ID: **9EY07**	List of Sources in Group (Source Range or Single Sources)
	9EY7_01
	9EY7_02
	9EY7_03
	9EY7_04
	9EY7_05
	9EY7_06
	9EY7_07
	9EY7_08
	9EY7_09
	9EY7_10
	9EY7_11
	9EY7_12
	9EY7_13
	9EY7_14

	9EY7_15
	9EY7_16
	9EY7_17
	9EY7_18
	9EY7_19
	9EY7_20
	9EY7_21
	9EY7_22
	9EY7_23
	9EY7_24
	9EY7_25
	9EY7_26
	9EY7_27
	9EY7_28
	9EY7_29
	9EY7_30
	9EY7_31
	9EY7_32
	9EY7_33
	9EY7_34
	9EY7_35

Source Group ID: **9EY06**	List of Sources in Group (Source Range or Single Sources)
	9EY6_01
	9EY6_02
	9EY6_03
	9EY6_04
	9EY6_05
	9EY6_06
	9EY6_07
	9EY6_08
	9EY6_09
	9EY6_10
	9EY6_11
	9EY6_12
	9EY6_13
	9EY6_14
	9EY6_15
	9EY6_16
	9EY6_17
	9EY6_18
	9EY6_19
	9EY6_20
	9EY6_21
	9EY6_22
	9EY6_23
	9EY6_24

	9EY6_25
	9EY6_26
	9EY6_27
	9EY6_28
	9EY6_29
	9EY6_30
	9EY6_31
	9EY6_32
	9EY6_33
	9EY6_34
	9EY6_35

Source Group ID: **9EY05**	List of Sources in Group (Source Range or Single Sources)
	9EY5_01
	9EY5_02
	9EY5_03
	9EY5_04
	9EY5_05
	9EY5_06
	9EY5_07
	9EY5_08
	9EY5_09
	9EY5_10
	9EY5_11
	9EY5_12
	9EY5_13
	9EY5_14
	9EY5_15
	9EY5_16
	9EY5_17
	9EY5_18
	9EY5_19
	9EY5_20
	9EY5_21
	9EY5_22
	9EY5_23
	9EY5_24
	9EY5_25
	9EY5_26
	9EY5_27
	9EY5_28
	9EY5_29
	9EY5_30
	9EY5_31
	9EY5_32
	9EY5_33
	9EY5_34

	9EY5_35

Source Group ID: **9EY04**	List of Sources in Group (Source Range or Single Sources)
	9EY4_01
	9EY4_02
	9EY4_03
	9EY4_04
	9EY4_05
	9EY4_06
	9EY4_07
	9EY4_08
	9EY4_09
	9EY4_10
	9EY4_11
	9EY4_12
	9EY4_13
	9EY4_14
	9EY4_15
	9EY4_16
	9EY4_17
	9EY4_18
	9EY4_19
	9EY4_20
	9EY4_21
	9EY4_22
	9EY4_23
	9EY4_24
	9EY4_25
	9EY4_26
	9EY4_27
	9EY4_28
	9EY4_29
	9EY4_30
	9EY4_31
	9EY4_32
	9EY4_33
	9EY4_34
	9EY4_35

Source Group ID: **9EY03**	List of Sources in Group (Source Range or Single Sources)
	9EY3_01
	9EY3_02
	9EY3_03
	9EY3_04
	9EY3_05
	9EY3_06
	9EY3_07

	List of Sources in Group (Source Range or Single Sources)
	9EY3_08
	9EY3_09
	9EY3_10
	9EY3_11
	9EY3_12
	9EY3_13
	9EY3_14
	9EY3_15
	9EY3_16
	9EY3_17
	9EY3_18
	9EY3_19
	9EY3_20
	9EY3_21
	9EY3_22
	9EY3_23
	9EY3_24
	9EY3_25
	9EY3_26
	9EY3_27
	9EY3_28
	9EY3_29
	9EY3_30
	9EY3_31
	9EY3_32
	9EY3_33
	9EY3_34
	9EY3_35

Source Group ID: 9EY02	**List of Sources in Group (Source Range or Single Sources)**
	9EY2_01
	9EY2_02
	9EY2_03
	9EY2_04
	9EY2_05
	9EY2_06
	9EY2_07
	9EY2_08
	9EY2_09
	9EY2_10
	9EY2_11
	9EY2_12
	9EY2_13
	9EY2_14
	9EY2_15
	9EY2_16
	9EY2_17

	9EY2_18
	9EY2_19
	9EY2_20
	9EY2_21
	9EY2_22
	9EY2_23
	9EY2_24
	9EY2_25
	9EY2_26
	9EY2_27
	9EY2_28
	9EY2_29
	9EY2_30
	9EY2_31
	9EY2_32
	9EY2_33
	9EY2_34
	9EY2_35

Source Group ID: 9EY01	**List of Sources in Group (Source Range or Single Sources)**
	9EY1_01
	9EY1_02
	9EY1_03
	9EY1_04
	9EY1_05
	9EY1_06
	9EY1_07
	9EY1_08
	9EY1_09
	9EY1_10
	9EY1_11
	9EY1_12
	9EY1_13
	9EY1_14
	9EY1_15
	9EY1_16
	9EY1_17
	9EY1_18
	9EY1_19
	9EY1_20
	9EY1_21
	9EY1_22
	9EY1_23
	9EY1_24
	9EY1_25
	9EY1_26
	9EY1_27

	9EY1_28
	9EY1_29
	9EY1_30
	9EY1_31
	9EY1_32
	9EY1_33
	9EY1_34
	9EY1_35

Source Group ID: **8Y04**	List of Sources in Group (Source Range or Single Sources)
	8Y4_01
	8Y4_02
	8Y4_03
	8Y4_04
	8Y4_05
	8Y4_06
	8Y4_07
	8Y4_08
	8Y4_09
	8Y4_10
	8Y4_11
	8Y4_12
	8Y4_13
	8Y4_14
	8Y4_15
	8Y4_16
	8Y4_17
	8Y4_18
	8Y4_19
	8Y4_20
	8Y4_21
	8Y4_22
	8Y4_23
	8Y4_24
	8Y4_25
	8Y4_26
	8Y4_27
	8Y4_28
	8Y4_29
	8Y4_30
	8Y4_31
	8Y4_32
	8Y4_33
	8Y4_34
	8Y4_35
	8Y4_36
	8Y4_37

	List of Sources in Group (Source Range or Single Sources)
	8Y4_38
	8Y4_39
	8Y4_40
	8Y4_41
	8Y4_42
	8Y4_43
	8Y4_44
	8Y4_45
	8Y4_46
	8Y4_47
	8Y4_48
	8Y4_49
	8Y4_50
	8Y4_51
	8Y4_52
	8Y4_53
	8Y4_54
	8Y4_55
	8Y4_56
	8Y4_57
	8Y4_58
	8Y4_59
	8Y4_60
	8Y4_61
	8Y4_62
	8Y4_63
	8Y4_64

Source Group ID: 8Y03	List of Sources in Group (Source Range or Single Sources)
	8Y3_01
	8Y3_02
	8Y3_03
	8Y3_04
	8Y3_05
	8Y3_06
	8Y3_07
	8Y3_08
	8Y3_09
	8Y3_10
	8Y3_11
	8Y3_12
	8Y3_13
	8Y3_14
	8Y3_15
	8Y3_16
	8Y3_17
	8Y3_18

8Y3_19
8Y3_20
8Y3_21
8Y3_22
8Y3_23
8Y3_24
8Y3_25
8Y3_26
8Y3_27
8Y3_28
8Y3_29
8Y3_30
8Y3_31
8Y3_32
8Y3_33
8Y3_34
8Y3_35
8Y3_36
8Y3_37
8Y3_38
8Y3_39
8Y3_40
8Y3_41
8Y3_42
8Y3_43
8Y3_44
8Y3_45
8Y3_46
8Y3_47
8Y3_48
8Y3_49
8Y3_50
8Y3_51
8Y3_52
8Y3_53
8Y3_54
8Y3_55
8Y3_56
8Y3_57
8Y3_58
8Y3_59
8Y3_60
8Y3_61
8Y3_62
8Y3_63
8Y3_64

Source Pathway

Source Group ID: 8Y02	List of Sources in Group (Source Range or Single Sources)
	8Y2_01
	8Y2_02
	8Y2_03
	8Y2_04
	8Y2_05
	8Y2_06
	8Y2_07
	8Y2_08
	8Y2_09
	8Y2_10
	8Y2_11
	8Y2_12
	8Y2_13
	8Y2_14
	8Y2_15
	8Y2_16
	8Y2_17
	8Y2_18
	8Y2_19
	8Y2_20
	8Y2_21
	8Y2_22
	8Y2_23
	8Y2_24
	8Y2_25
	8Y2_26
	8Y2_27
	8Y2_28
	8Y2_29
	8Y2_30
	8Y2_31
	8Y2_32
	8Y2_33
	8Y2_34
	8Y2_35
	8Y2_36
	8Y2_37
	8Y2_38
	8Y2_39
	8Y2_40
	8Y2_41
	8Y2_42
	8Y2_43
	8Y2_44
	8Y2_45
	8Y2_46

	8Y2_47
	8Y2_48
	8Y2_49
	8Y2_50
	8Y2_51
	8Y2_52
	8Y2_53
	8Y2_54
	8Y2_55
	8Y2_56
	8Y2_57
	8Y2_58
	8Y2_59
	8Y2_60
	8Y2_61
	8Y2_62
	8Y2_63
	8Y2_64

Source Group ID: **8Y01**	List of Sources in Group (Source Range or Single Sources)
	8Y1_01
	8Y1_02
	8Y1_03
	8Y1_04
	8Y1_05
	8Y1_06
	8Y1_07
	8Y1_08
	8Y1_09
	8Y1_10
	8Y1_11
	8Y1_12
	8Y1_13
	8Y1_14
	8Y1_15
	8Y1_16
	8Y1_17
	8Y1_18
	8Y1_19
	8Y1_20
	8Y1_21
	8Y1_22
	8Y1_23
	8Y1_24
	8Y1_25
	8Y1_26
	8Y1_27

	8Y1_28
	8Y1_29
	8Y1_30
	8Y1_31
	8Y1_32
	8Y1_33
	8Y1_34
	8Y1_35
	8Y1_36
	8Y1_37
	8Y1_38
	8Y1_39
	8Y1_40
	8Y1_41
	8Y1_42
	8Y1_43
	8Y1_44
	8Y1_45
	8Y1_46
	8Y1_47
	8Y1_48
	8Y1_49
	8Y1_50
	8Y1_51
	8Y1_52
	8Y1_53
	8Y1_54
	8Y1_55
	8Y1_56
	8Y1_57
	8Y1_58
	8Y1_59
	8Y1_60
	8Y1_61
	8Y1_62
	8Y1_63
	8Y1_64

Variable Emissions

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

Scenario: off-road

Source ID:	**8Y1_01**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y1_02**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y1_03**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y1_04**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	

Scenario: off-road

Source ID:	**8Y1_04**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_05**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_06**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_07**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**8Y1_07**							
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:	**8Y1_08**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y1_09**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y1_10**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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

Scenario: off-road

Source ID:	**8Y1_11**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y1_12**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y1_13**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y1_14**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								

Scenario: off-road

Source ID:	**8Y1_14**							
	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:	**8Y1_15**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_16**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_17**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_17**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_18**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_21**							
Weekdays								

Scenario: off-road

Source ID:	**8Y1_21**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_22**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_23**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_24**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_24**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_25**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_26**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_27**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_27**							
Day	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:	**8Y1_28**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y1_29**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y1_30**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y1_31**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y1_31**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_32**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_33**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_34**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_34**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_35**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_36**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_37**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_37**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**8Y1_38**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_39**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_40**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_41**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**8Y1_41**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_42**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_43**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_44**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_44**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_45**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_46**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_47**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**8Y1_48**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y1_49**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y1_50**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y1_51**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**8Y1_51**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_52**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_53**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_54**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_54**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_55**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_56**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_57**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y1_58**							
Weekdays								

Scenario: off-road

Source ID:	**8Y1_58**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_59**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_60**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y1_61**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_61**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_62**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_63**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y1_64**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y1_64**							
Day	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:	**8Y2_01**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_02**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_04**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y2_04**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_05**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_06**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_07**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_08**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_09**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_10**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_10**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**8Y2_11**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**8Y2_14**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_15**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_17**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_18**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**8Y2_21**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y2_22**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y2_23**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y2_24**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								

Scenario: off-road

Source ID:	**8Y2_24**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_26**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_27**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_27**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_28**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_30**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_31**							
Weekdays								

Scenario: off-road

Source ID:	**8Y2_31**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y2_32**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y2_33**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y2_34**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_34**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_35**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_36**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_37**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_37**							
Day	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:	**8Y2_38**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_39**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_40**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_41**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y2_41**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_42**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_43**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_44**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_44**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_45**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_46**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y2_47**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y2_47**						
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**8Y2_48**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_49**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_50**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y2_51**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**8Y2_51**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_52**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_53**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_54**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_54**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_55**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_56**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y2_57**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**8Y2_58**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y2_59**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y2_60**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y2_61**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**8Y2_61**							
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:	**8Y2_62**							
Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y2_63**							
Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**8Y2_64**							
Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y2_64**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_01**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_02**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_04**							
Weekdays								

Scenario: off-road

Source ID:	**8Y3_04**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_05**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_06**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_07**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_07**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_10**							
Day	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:	**8Y3_11**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_14**							
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_15**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_16**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_17**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_17**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_18**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_19**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_20**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y3_20**						
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**8Y3_21**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_22**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_23**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_24**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**8Y3_24**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_25**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_26**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_27**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_27**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_28**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_30**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**8Y3_31**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y3_32**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y3_33**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y3_34**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								

Scenario: off-road

Source ID:	**8Y3_34**							
	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:	**8Y3_35**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_36**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_37**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_37**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_38**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_39**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_40**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_41**							
Weekdays								

Scenario: off-road

Source ID:	**8Y3_41**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_42**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_43**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y3_44**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_44**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_45**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_46**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_47**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_47**							
Day	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:	**8Y3_48**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_49**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_50**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_51**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y3_51**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_52**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_53**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_54**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_54**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_55**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_56**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y3_57**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y3_57**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**8Y3_58**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_59**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_60**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y3_61**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**8Y3_61**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_62**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_63**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y3_64**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y3_64**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**8Y4_04**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y4_05**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y4_06**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y4_07**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								

Scenario: off-road

Source ID:	**8Y4_07**							
	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:	**8Y4_08**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_09**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_10**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_10**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_11**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_14**							
Weekdays								

Scenario: off-road

Source ID:	**8Y4_14**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_15**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_16**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_17**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_17**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_18**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_19**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_20**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_20**							
Day	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:	**8Y4_21**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_22**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_23**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_24**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_24**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_25**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_26**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_27**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_27**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_28**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_29**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_30**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_30**						
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**8Y4_31**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_32**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_33**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_34**						
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**8Y4_34**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_35**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_36**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_37**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_37**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**8Y4_38**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**8Y4_39**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**8Y4_40**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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

Scenario: off-road

Source ID:	**8Y4_41**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y4_42**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y4_43**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	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:	**8Y4_44**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								

Scenario: off-road

Source ID:	**8Y4_44**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_45**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_46**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_47**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_47**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_48**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_49**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_50**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_51**							
Weekdays								

Scenario: off-road

Source ID:	**8Y4_51**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_52**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_53**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**8Y4_54**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_54**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_55**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_56**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**8Y4_57**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_57**							
Day	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:	**8Y4_58**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y4_59**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y4_60**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**8Y4_61**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**8Y4_61**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_62**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_63**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**8Y4_64**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**8Y4_64**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY1_01**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY1_02**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY1_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY1_03**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY1_04**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY1_05**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY1_06**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY1_07**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY1_07**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY1_10**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_11**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_12**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_13**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY1_14**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY1_15**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY1_16**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY1_17**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY1_17**							
	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:	**9EY1_18**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY1_19**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY1_20**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY1_20**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_21**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_22**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_23**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_24**							
Weekdays								

Scenario: off-road

Source ID:	**9EY1_24**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_26**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_27**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY1_27**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_28**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_29**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_30**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY1_30**							
Day	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:	**9EY1_31**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY1_32**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY1_33**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY1_34**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY1_34**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY1_35**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_01**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_02**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY2_02**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY2_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY2_04**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY2_05**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**9EY2_05**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY2_06**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY2_07**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY2_08**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY2_09**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY2_09**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9EY2_12**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_13**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_14**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_15**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY2_16**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY2_17**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY2_18**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY2_19**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY2_19**							
	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:	**9EY2_20**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY2_21**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY2_22**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY2_22**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_23**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_24**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_26**							
Weekdays								

Scenario: off-road

Source ID:	**9EY2_26**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY2_27**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY2_28**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY2_29**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY2_29**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_30**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_31**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY2_32**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY2_32**							
Day	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:	**9EY2_33**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY2_34**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY2_35**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY3_01**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY3_01**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_02**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_03**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_04**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY3_04**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY3_05**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY3_06**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY3_07**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**9EY3_07**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY3_08**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_09**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_10**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_11**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY3_11**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_13**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_14**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9EY3_14**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_15**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_16**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_17**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY3_18**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_19**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_20**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_21**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Source Pathway

Scenario: off-road

Source ID:	**9EY3_21**							
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:	**9EY3_22**							
Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_23**							
Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY3_24**							
Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY3_24**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_26**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_27**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_28**							
Weekdays								

Scenario: off-road

Source ID:	**9EY3_28**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY3_29**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY3_30**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY3_31**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY3_31**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_32**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_33**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY3_34**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY3_34**							
Day	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:	**9EY3_35**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY4_01**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY4_02**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY4_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY4_03**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_04**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_05**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_06**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY4_06**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY4_09**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY4_10**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY4_11**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY4_12**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY4_13**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY4_13**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_14**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_15**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY4_16**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9EY4_17**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9EY4_18**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9EY4_19**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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 Pathway

Scenario: off-road

Source ID:	**9EY4_20**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY4_21**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY4_22**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY4_23**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY4_23**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_24**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_26**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY4_26**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_27**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_28**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_30**							
Weekdays								

Scenario: off-road

Source ID:	**9EY4_30**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_31**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_32**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_33**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY4_33**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_34**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY4_35**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_01**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY5_01**							
Day	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:	**9EY5_02**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY5_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY5_04**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY5_05**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY5_05**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_06**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY5_08**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_09**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_10**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_11**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY5_11**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY5_12**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY5_13**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY5_14**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY5_15**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY5_15**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY5_18**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_21**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY5_22**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY5_23**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY5_24**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY5_25**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY5_25**							
	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:	**9EY5_26**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY5_27**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY5_28**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY5_28**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_30**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_31**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY5_32**							
Weekdays								

Scenario: off-road

Source ID:	**9EY5_32**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY5_33**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY5_34**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY5_35**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY5_35**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_01**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_02**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_03**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY6_03**							
Day	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:	**9EY6_04**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY6_05**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY6_06**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY6_07**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY6_07**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY6_10**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_13**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY6_13**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY6_14**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY6_15**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY6_16**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY6_17**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY6_17**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_19**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_20**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY6_20**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9EY6_21**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9EY6_22**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9EY6_23**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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 Pathway

Scenario: off-road

Source ID:	**9EY6_24**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY6_25**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY6_26**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY6_27**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY6_27**							
	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:	**9EY6_28**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY6_29**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY6_30**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY6_30**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_31**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_32**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_33**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY6_34**							
Weekdays								

Scenario: off-road

Source ID:	**9EY6_34**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY6_35**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY7_01**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY7_02**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY7_02**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_03**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_04**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_05**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY7_05**							
Day	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:	**9EY7_06**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY7_07**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY7_08**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY7_09**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY7_09**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY7_12**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY7_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY7_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY7_15**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**9EY7_15**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY7_16**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_17**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_18**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY7_19**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_20**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_21**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_22**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9EY7_22**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_23**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_24**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**9EY7_26**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY7_27**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY7_28**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY7_29**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY7_29**							
	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:	**9EY7_30**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY7_31**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY7_32**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY7_32**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_33**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_34**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY7_35**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_01**							
Weekdays								

Scenario: off-road

Source ID:	**9EY8_01**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_04**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY8_04**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_05**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_06**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY8_07**							
Day	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:	**9EY8_08**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY8_09**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY8_10**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY8_11**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY8_11**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_13**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_14**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY8_14**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY8_15**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY8_16**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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:	**9EY8_17**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00	
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00	
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00	
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00	

Scenario: off-road

Source ID:	**9EY8_17**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY8_18**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY8_19**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY8_20**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY8_21**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY8_21**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_22**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_23**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_24**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY8_24**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_26**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_27**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**9EY8_28**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY8_29**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY8_30**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY8_31**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Source Pathway

Scenario: off-road

Source ID:	**9EY8_31**							
	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:	**9EY8_32**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY8_33**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY8_34**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY8_34**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY8_35**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_03**							
Weekdays								

Scenario: off-road

Source ID:	**9EY9_03**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY9_04**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY9_05**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY9_06**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY9_06**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY9_09**							
Day	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:	**9EY9_10**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY9_11**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY9_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY9_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY9_13**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_14**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_15**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY9_16**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_17**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_18**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY9_19**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY9_20**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY9_21**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY9_22**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY9_23**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY9_23**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_24**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_25**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_26**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9EY9_26**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_27**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_28**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY9_30**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY9_31**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY9_32**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY9_33**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY9_33**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_34**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY9_35**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY10_01**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_04**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_05**							
Weekdays								

Scenario: off-road

Source ID:	**9EY10_05**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY10_06**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY10_07**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY10_08**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY10_08**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY10_11**							
Day	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:	**9EY10_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY10_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY10_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY10_15**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY10_15**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9EY10_18**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY10_19**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY10_20**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY10_21**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY10_21**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY10_22**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_23**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_24**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_25**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY10_25**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_26**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_27**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_28**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY10_28**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_30**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY10_31**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY10_32**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY10_33**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY10_34**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY10_35**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Source Pathway

Scenario: off-road

Source ID:	**9EY10_35**							
	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:	**9EY11_01**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY11_02**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY11_03**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY11_03**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_04**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_05**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_06**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_07**							
Weekdays								

Scenario: off-road

Source ID:	**9EY11_07**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY11_08**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY11_09**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY11_10**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY11_10**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_13**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY11_13**							
Day	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:	**9EY11_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY11_15**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY11_16**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY11_17**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY11_17**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_19**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_20**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY11_20**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_21**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_22**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_23**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY11_23**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY11_24**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY11_25**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY11_26**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY11_27**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY11_27**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_28**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_29**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_30**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY11_30**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_31**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_32**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY11_33**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY11_34**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY11_35**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY12_01**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY12_02**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY12_02**							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_04**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_05**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY12_05**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_06**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_07**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_08**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_09**							
Weekdays								

Scenario: off-road

Source ID:	**9EY12_09**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY12_10**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY12_11**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY12_12**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY12_12**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_13**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_14**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_15**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY12_15**							
Day	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:	**9EY12_16**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_17**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_18**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_19**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY12_19**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_20**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_21**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_22**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY12_22**							
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_23**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_24**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY12_25**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY12_25**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY12_26**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_27**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_28**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY12_29**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_30**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_31**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_32**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9EY12_32**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_33**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_34**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY12_35**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9EY13_01**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY13_02**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY13_03**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9EY13_04**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9EY13_04**							
	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:	**9EY13_05**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY13_06**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY13_07**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY13_07**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_08**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_09**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_10**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_11**							
Weekdays								

Scenario: off-road

Source ID:	**9EY13_11**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY13_12**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY13_13**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9EY13_14**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY13_14**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_15**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY13_17**							
Day	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:	**9EY13_18**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY13_19**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY13_20**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9EY13_21**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY13_21**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_22**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_23**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_24**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY13_24**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_25**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_26**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_27**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY13_27**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9EY13_28**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_29**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_30**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_31**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9EY13_31**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_32**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_33**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_34**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9EY13_34**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9EY13_35**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9WY1_03**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY1_04**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY1_05**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY1_06**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY1_06**							
	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:	**9WY1_07**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY1_08**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY1_09**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY1_09**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_10**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_11**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_12**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_13**							
Weekdays								

Scenario: off-road

Source ID:	**9WY1_13**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY1_14**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY1_15**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY1_16**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY1_16**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY1_19**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY1_19**							
Day	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:	**9WY1_20**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY1_21**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY1_22**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY1_23**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY1_23**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_01**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_02**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_03**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY2_03**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_04**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_05**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_06**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY2_06**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY2_07**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_08**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_09**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_10**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9WY2_10**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_13**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9WY2_13**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_14**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_15**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY2_16**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9WY2_17**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY2_18**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY2_19**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY2_20**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY2_20**							
	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:	**9WY2_21**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY2_22**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY2_23**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY2_23**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_04**							
Weekdays								

Scenario: off-road

Source ID:	**9WY3_04**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY3_05**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY3_06**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY3_07**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY3_07**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY3_10**							
Day	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:	**9WY3_11**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY3_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY3_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY3_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY3_14**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_15**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY3_17**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_18**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY3_20**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY3_21**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_22**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY3_23**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Scenario: off-road

Source ID:	**9WY4_01**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_02**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_03**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_04**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY4_04**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9WY4_05**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9WY4_06**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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:	**9WY4_07**							
Weekdays								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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		1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of		7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day		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 Pathway

Scenario: off-road

Source ID:	**9WY4_08**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY4_09**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY4_10**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY4_11**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY4_11**							
	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:	**9WY4_12**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY4_13**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY4_14**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY4_14**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_15**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_16**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_17**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY4_18**							
Weekdays								

Scenario: off-road

Source ID:	**9WY4_18**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY4_19**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY4_20**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY4_21**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY4_21**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY4_22**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY4_23**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY5_01**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY5_01**							
Day	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:	**9WY5_02**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY5_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY5_04**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY5_05**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY5_05**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_06**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9WY5_08**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY5_11**							
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY5_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY5_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY5_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY5_15**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Scenario: off-road

Source ID:	**9WY5_15**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY5_18**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY5_21**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9WY5_22**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY5_23**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY6_01**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY6_02**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY6_02**							
	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:	**9WY6_03**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY6_04**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY6_05**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY6_05**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_06**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_07**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_08**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_09**							
Weekdays								

Scenario: off-road

Source ID:	**9WY6_09**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY6_10**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY6_11**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY6_12**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY6_12**							
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY6_13**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY6_14**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY6_15**							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY6_15**							
Day	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:	**9WY6_16**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY6_17**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY6_18**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY6_19**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY6_19**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_20**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_21**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_22**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY6_22**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY6_23**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY7_02**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY7_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_04**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_05**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_06**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9WY7_06**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9WY7_09**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_10**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_11**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_12**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**9WY7_13**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY7_14**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY7_15**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY7_16**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY7_16**							
	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:	**9WY7_17**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY7_18**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY7_19**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY7_19**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_21**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_22**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY7_23**							
Weekdays								

Scenario: off-road

Source ID:	**9WY7_23**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY8_01**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY8_02**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY8_03**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY8_03**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_04**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_05**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_06**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY8_06**							
Day	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:	**9WY8_07**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY8_08**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY8_09**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY8_10**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY8_10**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_13**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Scenario: off-road

Source ID:	**9WY8_13**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_14**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_15**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY8_16**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY8_17**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_18**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_19**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9WY8_20**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_21**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_22**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY8_23**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY8_23**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9WY9_04**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY9_05**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY9_06**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY9_07**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY9_07**							
	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:	**9WY9_08**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY9_09**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY9_10**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY9_10**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_11**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_12**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_13**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_14**							
Weekdays								

Scenario: off-road

Source ID:	**9WY9_14**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY9_15**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY9_16**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY9_17**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY9_17**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_19**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY9_20**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY9_20**							
Day	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:	**9WY9_21**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY9_22**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY9_23**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY10_01**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY10_01**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_02**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_03**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_04**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY10_04**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_05**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_06**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY10_07**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY10_08**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_09**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_10**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_11**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Scenario: off-road

Source ID:	**9WY10_11**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_13**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_14**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY10_14**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_15**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_16**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY10_17**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	**9WY10_18**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY10_19**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY10_20**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY10_21**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY10_21**							
	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:	**9WY10_22**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY10_23**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY11_01**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY11_01**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_03**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_04**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_05**							
Weekdays								

Scenario: off-road

Source ID:	**9WY11_05**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY11_06**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY11_07**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY11_08**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY11_08**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY11_11**							
Day	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:	**9WY11_12**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY11_13**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY11_14**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY11_15**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY11_15**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_16**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY11_18**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_19**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_20**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_21**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY11_21**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY11_22**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY11_23**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_01**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_02**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9WY12_02**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_03**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_04**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_05**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY12_05**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_06**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_07**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_08**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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

Scenario: off-road

Source ID:	**9WY12_09**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY12_10**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY12_11**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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:	**9WY12_12**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								

Scenario: off-road

Source ID:	**9WY12_12**							
	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:	**9WY12_13**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY12_14**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY12_15**							
Weekdays								
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY12_15**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_16**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_17**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_18**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_19**							
Weekdays								

Scenario: off-road

Source ID:	**9WY12_19**							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY12_20**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY12_21**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		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:	**9WY12_22**							
	Weekdays							
	Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
		7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
		13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY12_22**							
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY12_23**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_01**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_02**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY13_02**							
Day	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:	**9WY13_03**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY13_04**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY13_05**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	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:	**9WY13_06**							
Weekdays								
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY13_06**							
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_07**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_08**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_09**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY13_09**							
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_10**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_11**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_12**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY13_12**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**9WY13_13**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_14**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_15**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_16**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00

Scenario: off-road

Source ID:	**9WY13_16**							
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_17**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_18**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_19**							
	Weekdays							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
	Saturday							
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: off-road

Source ID:	**9WY13_19**							
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_20**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_21**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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:	**9WY13_22**							
Weekdays								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	Day	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
		19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday								
	Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
	Day	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 Pathway

Scenario: off-road

Source ID:	9WY13_23						
Weekdays							
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
	7 - 12	1.00	1.00	1.00	1.00	1.00	1.00
	13 - 18	1.00	1.00	1.00	1.00	1.00	1.00
	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

Meteorology Pathway

Met Input Data

Surface Met Data

Filename: met\14-18.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: met\14-18.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): 6.60 [ft]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2014			Sacramento International Airport
Upper Air		2014			Sacramento International Airport

Data Period

Data Period to Process

Start Date: 1/1/2014 Start Hour: 1 End Date: 12/25/2018 End Hour: 24

Wind Speed Categories

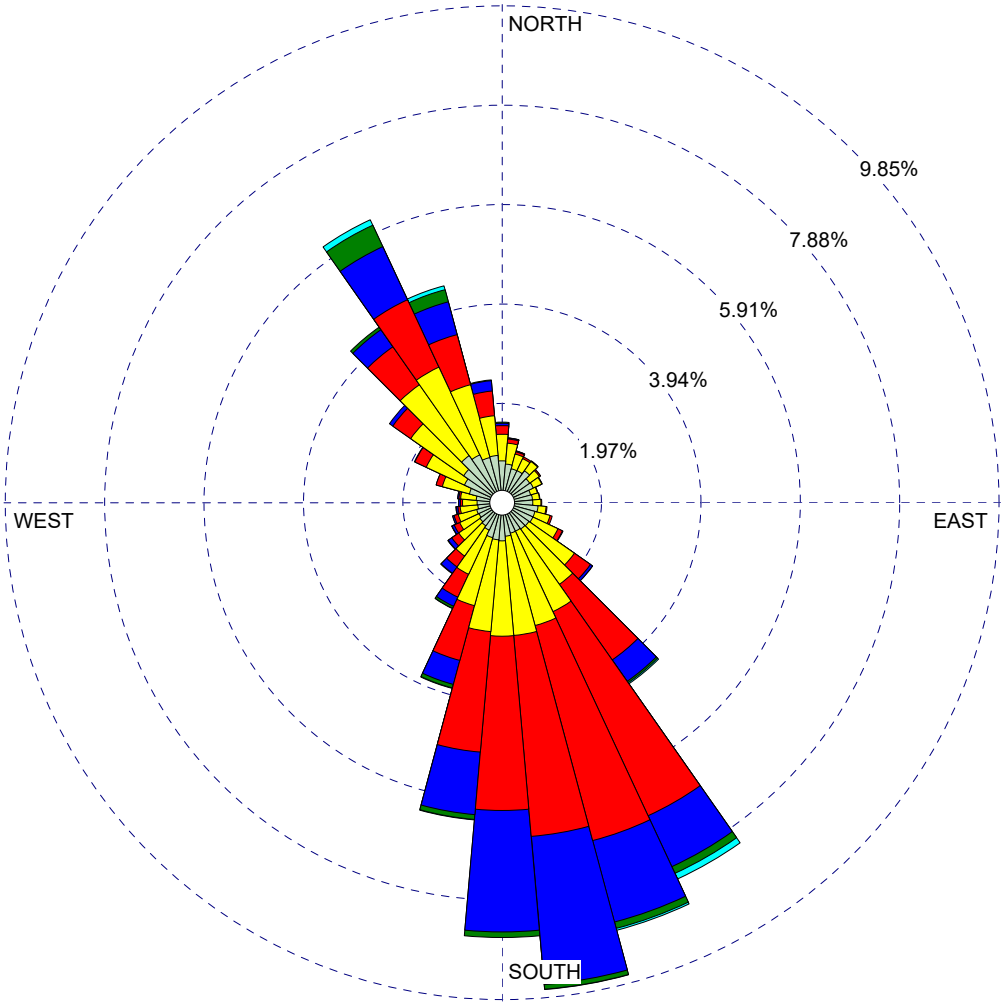
Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

WIND ROSE PLOT:

Station #93225

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2014 - 00:00** **End Date: 12/25/2018 - 23:59**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **1.03%**	TOTAL COUNT: **43513 hrs.**	
	AVG. WIND SPEED: **3.64 m/s**	DATE: **1/30/2025**	PROJECT NO.:

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	645773.00	4263870.00	res	21.48	1.80
2	645831.00	4263870.00	res	21.63	1.80
3	645549.46	4263918.84	res	19.51	1.80
4	645545.78	4263871.02	res	19.51	1.80
5	645701.21	4265303.79	res	17.68	1.80
6	645711.21	4265303.79	res	17.68	1.80
7	645721.21	4265303.79	res	17.75	1.80
8	645731.21	4265303.79	res	17.85	1.80
9	645741.21	4265303.79	res	17.96	1.80
10	645751.21	4265303.79	res	18.06	1.80
11	645761.21	4265303.79	res	18.16	1.80
12	645771.21	4265303.79	res	18.26	1.80
13	645781.21	4265303.79	res	18.29	1.80
14	645791.21	4265303.79	res	18.29	1.80
15	645801.21	4265303.79	res	18.29	1.80
16	645811.21	4265303.79	res	18.29	1.80
17	645821.21	4265303.79	res	18.29	1.80
18	645701.21	4265313.79	res	17.68	1.80
19	645711.21	4265313.79	res	17.68	1.80
20	645721.21	4265313.79	res	17.75	1.80
21	645731.21	4265313.79	res	17.85	1.80
22	645741.21	4265313.79	res	17.96	1.80
23	645751.21	4265313.79	res	18.06	1.80
24	645761.21	4265313.79	res	18.16	1.80
25	645771.21	4265313.79	res	18.26	1.80
26	645781.21	4265313.79	res	18.29	1.80
27	645791.21	4265313.79	res	18.29	1.80
28	645801.21	4265313.79	res	18.29	1.80
29	645811.21	4265313.79	res	18.29	1.80
30	645821.21	4265313.79	res	18.29	1.80

31	645701.21	4265323.79	res	17.68	1.80
32	645711.21	4265323.79	res	17.68	1.80
33	645721.21	4265323.79	res	17.75	1.80
34	645731.21	4265323.79	res	17.85	1.80
35	645741.21	4265323.79	res	17.96	1.80
36	645751.21	4265323.79	res	18.06	1.80
37	645761.21	4265323.79	res	18.16	1.80
38	645771.21	4265323.79	res	18.26	1.80
39	645781.21	4265323.79	res	18.29	1.80
40	645791.21	4265323.79	res	18.29	1.80
41	645801.21	4265323.79	res	18.29	1.80
42	645811.21	4265323.79	res	18.29	1.80
43	645821.21	4265323.79	res	18.29	1.80
44	645701.21	4265333.79	res	17.64	1.80
45	645711.21	4265333.79	res	17.67	1.80
46	645721.21	4265333.79	res	17.75	1.80
47	645731.21	4265333.79	res	17.85	1.80
48	645741.21	4265333.79	res	17.96	1.80
49	645751.21	4265333.79	res	18.06	1.80
50	645761.21	4265333.79	res	18.16	1.80
51	645771.21	4265333.79	res	18.26	1.80
52	645781.21	4265333.79	res	18.29	1.80
53	645791.21	4265333.79	res	18.29	1.80
54	645801.21	4265333.79	res	18.29	1.80
55	645811.21	4265333.79	res	18.29	1.80
56	645821.21	4265333.79	res	18.29	1.80
57	645701.21	4265343.79	res	17.60	1.80
58	645711.21	4265343.79	res	17.66	1.80
59	645721.21	4265343.79	res	17.75	1.80
60	645731.21	4265343.79	res	17.85	1.80
61	645741.21	4265343.79	res	17.96	1.80
62	645751.21	4265343.79	res	18.06	1.80
63	645761.21	4265343.79	res	18.16	1.80
64	645771.21	4265343.79	res	18.26	1.80
65	645781.21	4265343.79	res	18.29	1.80
66	645791.21	4265343.79	res	18.29	1.80
67	645801.21	4265343.79	res	18.29	1.80
68	645811.21	4265343.79	res	18.29	1.80

69	645821.21	4265343.79	res	18.29	1.80
70	645701.21	4265353.79	res	17.55	1.80
71	645711.21	4265353.79	res	17.65	1.80
72	645721.21	4265353.79	res	17.75	1.80
73	645731.21	4265353.79	res	17.85	1.80
74	645741.21	4265353.79	res	17.96	1.80
75	645751.21	4265353.79	res	18.06	1.80
76	645761.21	4265353.79	res	18.16	1.80
77	645771.21	4265353.79	res	18.26	1.80
78	645781.21	4265353.79	res	18.29	1.80
79	645791.21	4265353.79	res	18.29	1.80
80	645801.21	4265353.79	res	18.29	1.80
81	645811.21	4265353.79	res	18.29	1.80
82	645821.21	4265353.79	res	18.29	1.80
83	645701.21	4265363.79	res	17.50	1.80
84	645711.21	4265363.79	res	17.57	1.80
85	645721.21	4265363.79	res	17.68	1.80
86	645731.21	4265363.79	res	17.82	1.80
87	645741.21	4265363.79	res	17.95	1.80
88	645751.21	4265363.79	res	18.04	1.80
89	645761.21	4265363.79	res	18.11	1.80
90	645771.21	4265363.79	res	18.18	1.80
91	645781.21	4265363.79	res	18.22	1.80
92	645791.21	4265363.79	res	18.25	1.80
93	645801.21	4265363.79	res	18.28	1.80
94	645811.21	4265363.79	res	18.29	1.80
95	645821.21	4265363.79	res	18.29	1.80
96	645701.21	4265373.79	res	17.44	1.80
97	645711.21	4265373.79	res	17.48	1.80
98	645721.21	4265373.79	res	17.61	1.80
99	645731.21	4265373.79	res	17.77	1.80
100	645741.21	4265373.79	res	17.94	1.80
101	645751.21	4265373.79	res	18.01	1.80
102	645761.21	4265373.79	res	18.05	1.80
103	645771.21	4265373.79	res	18.09	1.80
104	645781.21	4265373.79	res	18.14	1.80
105	645791.21	4265373.79	res	18.21	1.80
106	645801.21	4265373.79	res	18.27	1.80

107	645811.21	4265373.79	res	18.29	1.80
108	645821.21	4265373.79	res	18.29	1.80
109	645731.21	4265383.79	res	17.73	1.80
110	645741.21	4265383.79	res	17.93	1.80
111	645751.21	4265383.79	res	17.99	1.80
112	645761.21	4265383.79	res	17.99	1.80
113	645771.21	4265383.79	res	17.99	1.80
114	645781.21	4265383.79	res	18.07	1.80
115	645791.21	4265383.79	res	18.16	1.80
116	645801.21	4265383.79	res	18.26	1.80
117	645811.21	4265383.79	res	18.29	1.80
118	645821.21	4265383.79	res	18.29	1.80
119	645761.21	4265393.79	res	17.94	1.80
120	645771.21	4265393.79	res	17.98	1.80
121	645781.21	4265393.79	res	18.06	1.80
122	645791.21	4265393.79	res	18.16	1.80
123	645801.21	4265393.79	res	18.26	1.80
124	645811.21	4265393.79	res	18.29	1.80
125	645821.21	4265393.79	res	18.29	1.80
126	647657.93	4263627.59	res	24.62	1.80
127	647657.93	4263637.59	res	24.52	1.80
128	647916.15	4263707.24	res	26.06	1.80
129	647926.15	4263707.24	res	26.16	1.80
130	647916.15	4263717.24	res	26.16	1.80
131	647926.15	4263717.24	res	26.26	1.80
132	647916.15	4263737.24	res	26.35	1.80
133	647926.15	4263737.24	res	26.46	1.80
134	647886.15	4263747.24	res	26.03	1.80
135	647896.15	4263747.24	res	26.13	1.80
136	647886.15	4263757.24	res	26.03	1.80
137	647896.15	4263757.24	res	26.13	1.80
138	647414.74	4263742.01	res	25.81	1.80
139	647444.74	4263742.01	res	26.33	1.80
140	647414.74	4263752.01	res	25.81	1.80
141	647444.74	4263752.01	res	26.33	1.80
142	647414.74	4263772.01	res	25.74	1.80
143	647424.74	4263772.01	res	25.85	1.80
144	647434.74	4263772.01	res	26.03	1.80

145	647444.74	4263772.01	res	26.21	1.80
146	647414.74	4263782.01	res	25.64	1.80
147	647424.74	4263782.01	res	25.75	1.80
148	647434.74	4263782.01	res	25.89	1.80
149	647444.74	4263782.01	res	26.04	1.80
150	647492.07	4263779.70	res	26.99	1.80
151	647502.07	4263779.70	res	27.19	1.80
152	647492.07	4263789.70	res	26.84	1.80
153	647502.07	4263789.70	res	27.11	1.80
154	647535.20	4263796.25	res	27.39	1.80
155	647545.20	4263796.25	res	27.33	1.80
156	647535.20	4263806.25	res	27.05	1.80
157	647545.20	4263806.25	res	27.03	1.80
158	647539.52	4263771.66	res	27.23	1.80
159	647549.52	4263771.66	res	26.96	1.80
160	647539.52	4263781.66	res	27.32	1.80
161	647549.52	4263781.66	res	27.04	1.80
162	647549.16	4263723.13	res	26.14	1.80
163	647559.16	4263723.13	res	25.87	1.80
164	647549.16	4263733.13	res	26.32	1.80
165	647559.16	4263733.13	res	26.03	1.80
166	647539.52	4263752.05	res	26.91	1.80
167	647549.52	4263752.05	res	26.66	1.80
168	647539.52	4263762.05	res	27.11	1.80
169	647549.52	4263762.05	res	26.85	1.80
170	647480.04	4263737.54	res	26.81	1.80
171	647480.04	4263717.93	res	26.46	1.80
172	647480.04	4263727.93	res	26.65	1.80
173	646052.10	4262282.31	res	21.00	1.80
174	646062.10	4262282.31	res	21.00	1.80
175	646072.10	4262282.31	res	21.00	1.80
176	646052.10	4262292.31	res	21.00	1.80
177	646062.10	4262292.31	res	21.00	1.80
178	646072.10	4262292.31	res	21.00	1.80
179	645776.72	4262282.15	res	20.00	1.80
180	645786.72	4262282.15	res	20.00	1.80
181	645776.72	4262292.15	res	20.00	1.80
182	645786.72	4262292.15	res	20.00	1.80

183	646321.44	4262579.86	res	23.00	1.80
184	646331.44	4262579.86	res	23.00	1.80
185	646341.44	4262579.86	res	23.00	1.80
186	646321.44	4262589.86	res	23.00	1.80
187	646331.44	4262589.86	res	23.00	1.80
188	646341.44	4262589.86	res	23.00	1.80
189	646322.98	4262547.90	res	23.00	1.80
190	646332.98	4262547.90	res	23.00	1.80
191	646370.64	4262560.50	res	23.00	1.80
192	646380.64	4262560.50	res	23.00	1.80
193	646025.12	4262309.30	res	21.00	1.80
194	646090.75	4262310.60	res	21.00	1.80
195	646090.75	4262320.60	res	21.00	1.80
196	646026.26	4262282.42	res	21.00	1.80
197	646036.26	4262282.42	res	21.00	1.80
198	646026.26	4262292.42	res	21.00	1.80
199	646036.26	4262292.42	res	21.00	1.80

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	res	residential
2	school	school
3	UCART1	Receptors generated from Uniform Cartesian Grid
4	UCART2	Receptors generated from Uniform Cartesian Grid

AERMOD OUTPUT FILES AVAILABLE UPON REQUEST

APPENDIX B-2

ENERGY WORKSHEET CALCULATIONS

Energy Consumption

Project Annual Energy Consumption Summary

Source	Diesel (gallons/yr)	Gasoline (gallons/yr)	Electricity (kWh/yr)
Conveyor system	-	-	558,000
Mining Equipment	214,576	-	
Project total annual	214,576	0	558,000

Conveyor System Operation

Power at a typical 50% load	186	kW
Hours of operation	3,000	hrs/yr
Electricity consumption	558,000	kWh/yr

Off-Road Land Equipment Energy Consumption

Equipment Type (Manufacturer/ Model)	Pieces	Engine Model Year	Engine HP	Load Factor	Total Equipment Hours	Horsepower-Hour (hp-hr)	Consumption Rate (gallons/hp-hr)	Diesel (gallons)
Rubber Tire Loader (Cat 990)	1	2017	699	0.36	2,400	1677600	0.0504	30,466
Rubber Tire Loader (Cat 988K)	1	2016	541	0.36	1900	1027900	0.0504	18,667
Rubber Tire Loader (Cat 988KXE)	1	2019	580	0.36	1900	1102000	0.0504	20,013
Crawler Tractors (Cat D10T2)	1	2014	570	0.43	1700	969000	0.0504	21,019
Crawler Tractors (Cat D6)	1	2019	470	0.43	1000	470000	0.0504	10,195
Scrapers (Cat 657E)	1	2019	630	0.48	1000	630000	0.0504	15,255
Scrapers (Cat 657E)	1	2019	400	0.48	1000	400000	0.0504	9,685
Scrapers (Cat 657E)	1	2018	630	0.48	1000	630000	0.0504	15,255
Scrapers (Cat 657E)	1	2018	400	0.48	1000	400000	0.0504	9,685
Scrapers (Cat 657E)	1	2018	630	0.48	1000	630000	0.0504	15,255
Scrapers (Cat 657E)	1	2018	400	0.48	1000	400000	0.0504	9,685
Scrapers (Cat 657E)	1	2019	630	0.48	1000	630000	0.0504	15,255
Scrapers (Cat 657E)	1	2019	400	0.48	1000	400000	0.0504	9,685
Graders (Cat 16H)	1	2018	410	0.41	600	246000	0.0504	5,088
Tampers/Rammers (Cat 815F)	1	2015	232	0.3	150	34800	0.0504	527
Excavators (Cat 390F)	1	2016	530	0.38	350	185500	0.0504	3,556
Haul Trucks (Komatsu HM350)	1	2016	394	0.38	350	137900	0.0504	2,643
Haul Trucks (Komatsu HM350)	1	2017	394	0.38	350	137900	0.0504	2,643
					18,700			214,576

Notes:

Fuel consumption rate from OFFROAD 2021 (See sheet Off-road Exhaust)

OFFROAD Emission Inventory
Model Output: OFFROAD2021 (v1.0.7) Emissions Inventory
Region Type: Air District
Region: Sacramento Metropolitan AQMD
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	Gallons per horsepower-hour
Sacramento Metropolitan AQMD	2026	Construction and Minin	2017	750	Diesel	142.0841	11.4528575	0.018225	2816.618	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2016	600	Diesel	12815.08	1839.59904	2.488793	254040.9	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2019	600	Diesel	13659.24	1959.52313	2.500237	270775.3	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2014	600	Diesel	4244.66	501.972955	1.032936	84144.43	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2019	600	Diesel	7426.979	867.917927	1.66048	147229.5	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2018	750	Diesel	1549.665	103.78393	0.316123	30719.93	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2019	600	Diesel	5715.439	529.725617	1.307491	113300.6	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2018	750	Diesel	1549.665	103.78393	0.316123	30719.93	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2018	600	Diesel	6473.496	607.187123	1.509622	128328	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2018	750	Diesel	1549.665	103.78393	0.316123	30719.93	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2018	600	Diesel	6473.496	607.187123	1.509622	128328	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2018	750	Diesel	1549.665	103.78393	0.316123	30719.93	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2019	600	Diesel	5715.439	529.725617	1.307491	113300.6	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2018	600	Diesel	2168.581	308.392877	0.710365	42989.08	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2015	300	Diesel	118.2907	31.7587115	0.052282	2344.948	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2016	600	Diesel	13651.47	1891.23466	2.793418	270621.4	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2016	600	Diesel	10364.29	1240.71505	1.445409	205457.4	0.050444928
Sacramento Metropolitan AQMD	2026	Construction and Minin	2017	600	Diesel	10418.03	1249.83748	1.417851	206522.9	0.050444928

APPENDIX C

WILDLIFE HAZARD ANALYSIS

Wildlife Hazard Analysis for the 2024 Aspen VIII & IX Use Permit Amendment, Sacramento County

Prepared for:

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Attn: Nick Cronenwett

Prepared by:

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March 13, 2024
Revised December 24, 2024

EXECUTIVE SUMMARY

This document evaluates the potential effects of Teichert Materials' (Teichert's) proposed amendment to its mining plan for the Aspen VIII & IX project on bird-aircraft collision hazards. Existing and post-project hazard conditions were evaluated based on changes in habitat conditions, bird population responses to habitat changes, numbers and heights of aircraft flights across the project site, existing bird-aircraft collision data, flight height patterns of potentially hazardous bird species, and potential synergistic effects (i.e., creation of attractions that increases bird movements) resulting from habitat changes.

The analysis shows that expanding the mining area is not expected to significantly increase the risk of bird-aircraft collisions due to the distance of project lands from Mather Airport, the different flight heights of aircraft and birds over the site, and the reclamation of post-mining habitat to grassland conditions that are similar to existing conditions. Waterbird use of the site is expected to increase slightly due to the creation of several detention ponds, but this should not create a significant increase in collision risk. Overall, the incidence of bird-aircraft collisions is not expected to increase as a result of the mining proposed in the amendment.

INTRODUCTION

Teichert Materials (Teichert) is currently mining the Aspen VIII and IX properties along Elder Creek Road in Sacramento County under an approved mining permit. Teichert has requested an amendment to the current permit to add additional expansion areas to the mining plan (Figure 1).

The Aspen VIII & IX mining project previously raised concerns regarding the potential effects of the change in land use on bird collisions with aircraft using Sacramento County's Mather Airport, which is located 1.8-3.1 miles from the project area . The Aspen VIII Expansion Area is located just inside the 10,000 ft critical zone buffer for aircraft hazards identified by the Federal Aviation Administration (FAA) guidance (FAA 2020). The Aspen IX Expansion Area is located 0.5 to 1.5 mi from the boundary of the critical zone but within the 5-mile-radius (Figure 2).

A Wildlife Hazard Analysis (WHA) to meet FAA guidance was prepared for the Aspen VIII & IX project initially in 2009 (Airola and Gibson and Skordal 2009) and then updated in 2014 (Airola and Lichtwardt 2014). In addition, Airola, under contract to and with assistance from ECORP Consulting (ECORP), conducted a separate WHA for Teichert's and Granite Construction's land holdings along Jackson Highway, which included Aspen VIII and IX. This analysis evaluated the post-mining multiple land use proposed in the West Jackson Highway Master Plan Area (ECORP 2023).

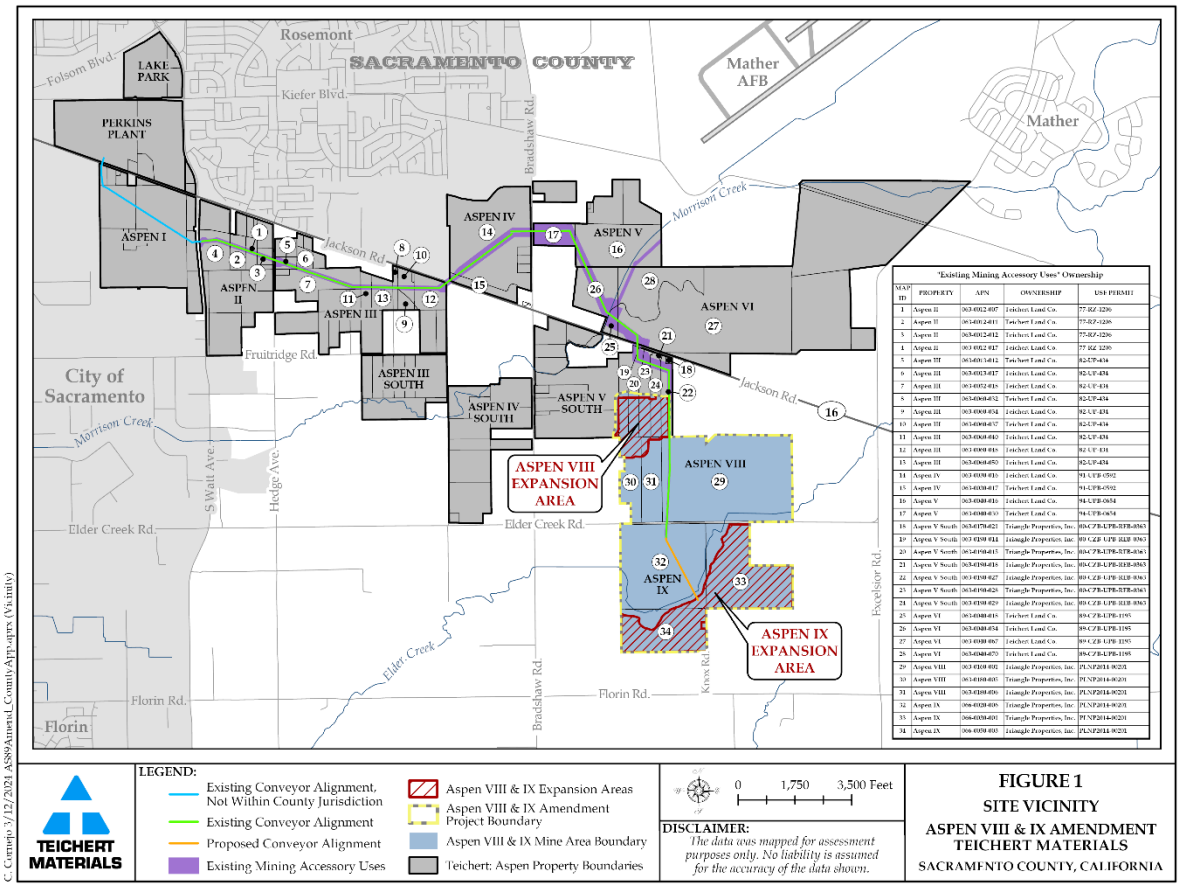

Figure 1. Site vicinity map for the Aspen VIII & IX amendment

Teichert's proposed expansion of the Aspen VIII & IX amendment project would change the character of existing lands, which would change the pattern of wildlife use and thus the potential hazard posed to aircraft. Therefore, Teichert has requested an amendment to the 2014 analysis of bird-aircraft collision hazard to include as a submission with its permit application.

PROJECT DESCRIPTION

The proposed Aspen VIII & IX Use Permit Amendment project ("Project") is an expansion of surface mining operations at Teichert's existing Aspen VIII & IX mining site located in unincorporated Sacramento County along Elder Creek Road. The expansion areas currently support mixed annual grassland/seasonal wetland habitat. The two parcels currently have 13.16 acres of vernal pools and 3.17 acres of other seasonal wetlands (Y. Dean, Teichert Aggregates, pers. comm.).

The existing entitlement allows for surface mining on approximately 353 acres of a 683-acre project site, with mining to be completed by December 31, 2031 and the site to be reclaimed by December 31, 2033. The proposed amendment would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations for sand and

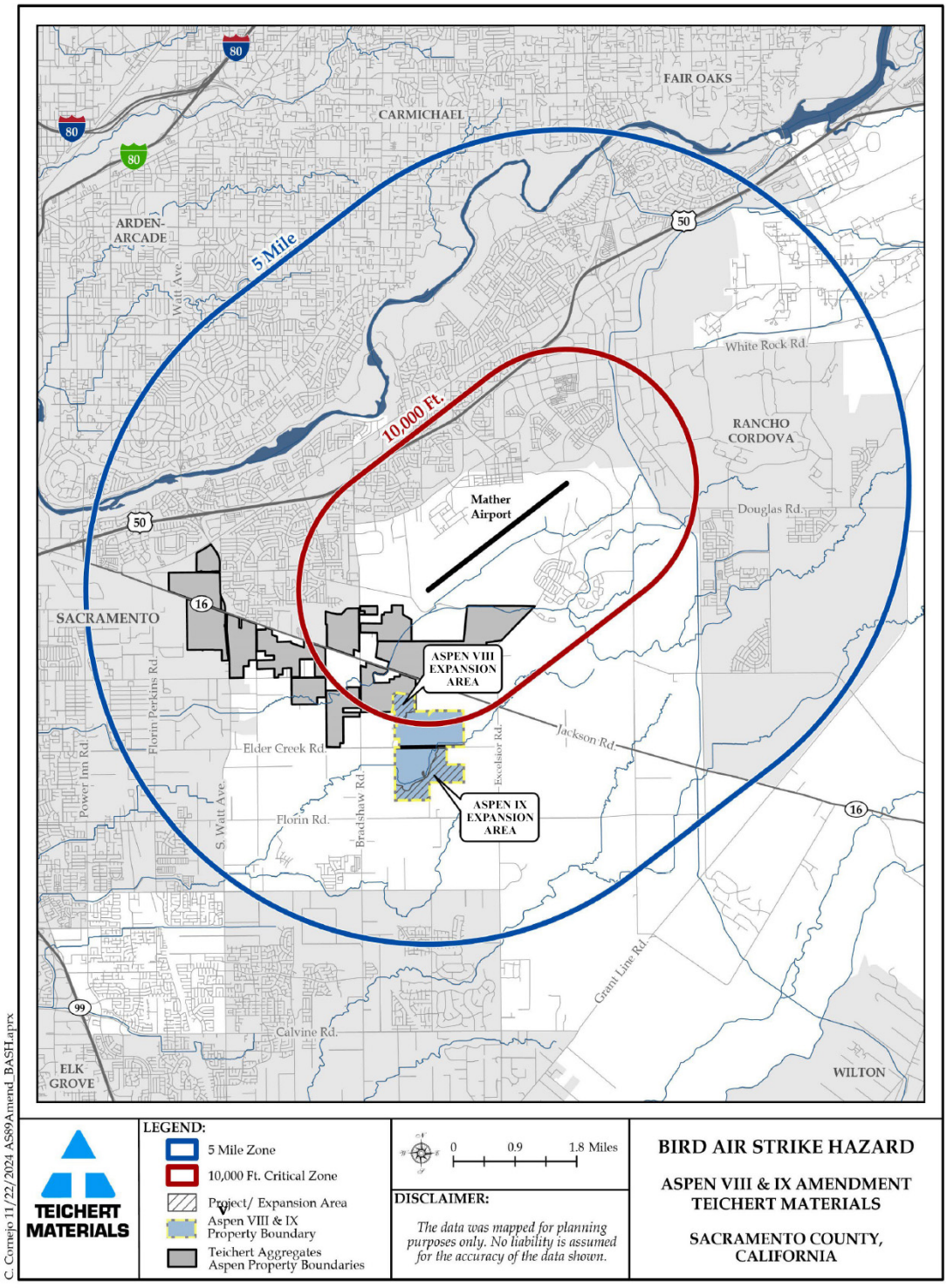

Figure 2. Location of Aspen VIII & IX expansion areas in relation to the FAA's critical zone and 5- mile radius around Mather Airport

gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres (Figure 3). In addition to expanding the mine boundary, the Project would also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of the Aspen IX site, which would allow for material to continue to be conveyed offsite rather than transported by truck.

The mining process, which is estimated to take 15 years, would excavate lands to approximate maximum depths of between 30 to 50 feet below grade surface, not to exceed 60 ft., like those created under the existing mining. Overburden would be stored and when mining is completed would be used to reclaim lands to annual grassland/open space. Mitigation for wetland losses would occur offsite, so seasonal drainage swales (currently of unquantified area) and stormwater detention ponds would be the only wetland features on the site.

Because mining pits would be below grade, stormwater retention ponds would be created to store and dispose of stormwater through percolation and evaporation. Two ponds, with storage capacities of 40 and 55 acre-ft would be constructed in the Aspen IX Expansion Area, outside the FAA's 10,000 ft Critical Zone around Mather Airport (Figure 2). No new ponds would need to be constructed for the Aspen VIII Expansion Area. The ponds would be designed to average 10 ft deep and would occupy a total of 9.5 acres at full capacity, which would be achieved after major storm events. Pond area and depth would diminish gradually over time after storms through percolation and evaporation. Ponds would generally dry out completely in late spring to early summer

EVALUATION METHODS

This WHA mostly used the material and analytical methods in the 2014 Aspen VIII &IX WHA (Airola and Lichtwardt 2014) with some updating of information (especially on bird-aircraft collisions) from the 2023 West Jackson Highway Wildlife Hazard Evaluation (ECORP 2023). In brief the methodology involves sequentially identifying:

- changes in habitat conditions,
- resulting changes in onsite populations of potentially hazardous bird species or species groups,
- flight heights of birds,
- aircraft flight paths and heights in relation to the project site,
- known information on heights of past bird-aircraft collisions,
- potential for creation of bird flight paths to and from project lands in the path of aircraft ("synergistic effects"), and
- a resulting evaluation of potential changes in bird-aircraft strike hazard and the magnitude of those hazards.

Notably, most of the lands mined during the original permitted Aspen VIII & IX project were used for irrigated agriculture, and so the evaluation of the net change in bird-aircraft collision hazards were between reclaimed annual grasslands under post-project conditions and those occurring on irrigated lands (Airola and Lichtwardt 2014). Because the expansion areas

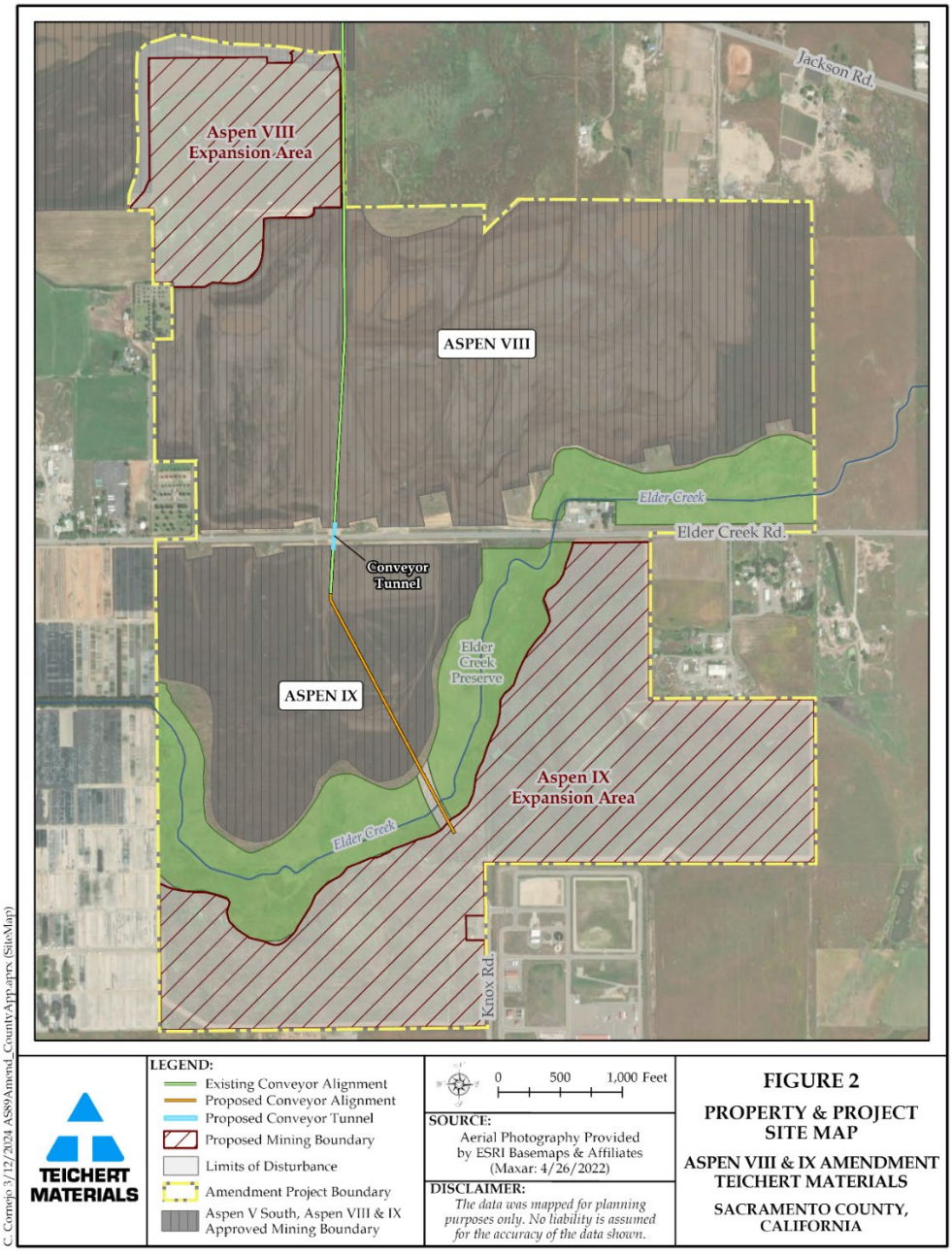

Figure 3. Project property and locations of proposed expansion areas for the Aspen VIII & IX amendment.

support annual grassland, the comparison of pre- and post-project conditions in this assessment are between the existing annual grassland/seasonal wetland habitat and reclaimed annual grassland habitat.

BIRD-AIRCRAFT COLLISION HAZARD EVALUATION

Changes in Habitat Conditions

Mining of the expansion areas within the amendment would remove existing annual grassland/vernal pool habitat for mining (Table 1). During the approximately 15-year mining process, the land would be highly disturbed and essentially devoid of vegetation. Following mining, the lands would be reclaimed to annual grassland. Reclamation of the expansion areas would re-create a total of approximately 158.4 acres of annual grassland, representing reclaimed pit floor, surrounded by approximately 61.7 acres of grassland slopes and approximately 16 acres of other grassland areas (reclaimed roads, conveyors, etc.). The grasslands on reclaimed lands are likely to be floristically similar to existing grasslands but may support more undesirable weeds. The reclaimed expansion area would not be designed to create seasonal wetlands, other than swales used to transport excess runoff to retention ponds.

Table 1. Changes in area of habitat types in the Aspen VIII & IX North Project and Southeast expansion areas over the project life.

	Habitat Area (Acres)			
Habitat Type	Pre-project	Mining Period	Post-Reclamation	Change Pre- to Post-Project
Grassland	229.31	0	236.14	6.83
Vernal Pool/Swale	16.33	0	0	-16.33
Disturbed Mining Area	0	236.14	0	0
Detention Pond	0	9.5	9.5	+9.5

The two stormwater detention ponds would be designed to detain runoff from the 10-year storm event. Ponds would occupy 4.0 and 5.5 acres and would be deep (>10 ft at maximum fill) and steep-sided to minimize surface area and wildlife attraction. During storms of 10-year or great intensity, which generally occur in December-February, the ponds would fill, and then be expected to be drawn down completely by late spring to early summer each year through evaporation and infiltration.

Change in Onsite Bird Populations

Evaluation of changes in relative abundances of potentially hazardous bird species and groups identified as hazardous in the 2014 and 2023 analyses (Airola and Lichtwardt 2014, ECORP 2023) are summarized in Table 2. Post-project conditions and bird use levels are expected to increase for Canada Geese, ducks, and swallows due to the creation of surface water in detention ponds that will last longer in the winter and spring. Post-project habitat value

and bird use would remain similar to pre-project conditions for 15 species/groups (Table 2) that rely mainly on grassland habitat. Habitat conditions are not expected to increase for any of the other species evaluated.

Table 2. Predicted relative bird use levels and net changes in use of the North Project and Southeast project expansions (treated together) under the proposed mining amendment

Species/group[1]	Existing Use	Post-project Use	Net Project Effect	Rationale for Determination
Canada Goose	Moderate	Moderate-High	Increase	Increased surface water in detention ponds
Ducks	Low -Moderate	Moderate	Increase	
Swallows	Low-Moderate	Moderate	Increase	Detention ponds a likely attractant
Bald Eagle	Low	Low-Moderate	Increase	Increase in waterbird prey
Great Blue Heron and Great Egret	Moderate	Moderate	No Change	Loss of seasonal wetland habitat roughly balanced by creation of detention ponds
Gulls	Moderate	Moderate	No Change	Gulls would continue using grasslands in wet seasons but would not extensively use small detention ponds
Turkey Vulture	Moderate	Moderate	No Change	Grassland conditions for these species would be generally similar before and after mining because of similarity of existing and reclaimed lands
Northern Harrier	Moderate	Moderate		
Wild Turkey	Low-Moderate	Low-Moderate		
Swainson's Hawk/ White-tailed Kite	Low-Moderate	Low-Moderate		
Red-tailed Hawk	Moderate-High	Moderate-High		
Red-shouldered Hawk /Cooper's Hawk	Low	Low		
Rock Pigeon	Moderate	Moderate		
Great Horned Owl and Barn Owl	Moderate	Moderate		
Horned Lark	Moderate	Moderate		
American Crow	Moderate-High	Moderate-High		
Common Raven	Moderate	Moderate		
American Kestrel	Moderate	Moderate		
Mourning Dove	Moderate-High	Moderate-High		
Blackbirds/Starlings	Moderate-High	Moderate-High		
Western Meadowlark/ Horned Lark	Moderate-High	Moderate-High		
Sparrows	Moderate-High	Moderate-High		

[1]Species included in the 2014 assessment (Airola and Lichtward 2014) but are considered unlikely to occur under either pre- and post-conditions are excluded, including White Pelican, Double-crested Cormorant, Sandhill Crane, Golden Eagle, Osprey, and Nighthawks. The Ring-necked Pheasant was removed from consideration because it has become rare in Sacramento County, likely due to habitat loss and increase pesticide use.

Despite incorporation of steep sides into pond designs to reduce waterbird attractiveness, the presence of 9.5 acres of detention ponds would attract waterbirds for breeding, feeding, and resting. Populations of Canada Geese likely would increase, as they could forage in adjacent grasslands and use ponds for resting. Limited numbers of ducks would breed on the pond, primarily mallards, but diving ducks (potentially Ring-necked Ducks, Buffleheads, Common Goldeneyes, and Ruddy Ducks) could use the pond for feeding and resting in the winter. A minor increase in use by wintering Bald Eagles could occur in response to waterbird attraction to the detention ponds

Aircraft Flight Volumes and Heights and Heights of Past Bird-Aircraft Collisions

I visually compared the flight path maps in the 2014 Project WHA (Airola and Lichtwardt 2014) and the 2023 Master Plan WHA (ECORP 2023), and both appear to be generally similar, especially with respect to the relative frequency of flights across the Aspen VIII & IX project areas. As noted in the 2014 report, about 500 flights per month crossed above the entire Aspen VIII & IX project area. Only 3% of flights (i.e., 16/month) flew below 1,000 ft and <1% (5 flights/month) flew below 500 ft. This pattern is consistent with that shown for this area in the 2023 WHA, which quantified the number of flight minutes that flights occurred at various heights over the Aspen VIII & Aspen IX area over the course of a month during a different winter (Table 3). The analysis showed that no flights crossed the properties below 500 ft, and planes were at 500-1,500 ft above the two properties for only 13 and 16 minutes per month and were above 1,500 ft for only 71 and 48 minutes per month (thus, a maximum of 0.3% of the time).

Table 3. Frequency of flights (flight minutes per month) over the Aspen VIII & IX properties during November 15 to December 15, 2022

Property	Aircraft Flight Height (ft)			Total
	100-500	500-1500	>1500	
Aspen VIII	0	16	71	87
Aspen IX	0	13	48	61

The 2014 Project WHA and 2023 Master Plan WHA show that bird collisions occur infrequently for aircraft using Mather Airport (on 11 [0.017%] of 66,446 flights in 2022). Nearly three quarters (74%) of 54 incidents where collision height was reported for aircraft at Mather Airport occurred at heights below 200 ft, and thus primarily during final approach and departure. The remaining collisions occurred at 200-500 ft (8%), 500-1,500 ft (9%), and at >1,500 ft (11%).

Flight Heights of Potentially Hazardous Species

A more extensive evaluation of bird flight heights was conducted for the 2023 Master Plan WHA (ECORP 2023) which was modified to address the potentially hazardous species used in this assessment (Table 4). This evaluation showed that most potentially hazardous species

flew predominantly at heights below 100 ft. Some species regularly flew at 100-500 ft. All species seldom fly at heights above 500 ft.

Table 4. Relative use of various height classes by potentially hazardous bird species for the West Jackson Highway Master Plan area (ECORP 2023). Modified to address potentially hazardous species addressed in the 2014 WHA and this WHA.

Species	Flight Frequency at Various Heights (feet)				
	0-20	20-100	100-500	500-1,500	1,500-3,000
Canada Goose	High	High	Moderate	Low	Very Low
Ducks	High	High	Moderate	Low	Very Low
Rock Pigeon	High	High	Low	Very Low	None
Mourning Dove	High	High	Moderate	Low	Low
Wild Turkey	High	Moderate	None	None	None
Gulls	High	High	Moderate	Low	Very low
Herons and Egrets	High	Moderate	Low	Very low	None
Turkey Vulture	High	High	Low	Low	Low
Bald Eagle	High	High	Moderate	Low	Very Low
White-tailed Kite, Northern Harrier	High	Moderate	Low	Very Low	None
Cooper's Hawk, Red-shouldered Hawk	High	High	Moderate	Very Low	None
Swainson's Hawk	High	High	Moderate	Low	Very Low
Red-tailed Hawk	High	High	Moderate	Low	Very Low
American Kestrel	High	High	Low	Very Low	None
Great Horned Owl, Barn Owl	High	High	Low	Very Low	None
American Crow/Common Raven	High	High	Moderate	Low	None
Blackbirds/Starling	High	High	Moderate	Very Low	None
Western Meadowlark/Horned Lark	High	Moderate	Low	Very Low	None
Swallows	High	High	Moderate	Low	None
Sparrows	High	Moderate	Low	Low	None

Key to ratings:

High = Most of time spent at this height
Moderate = Regularly found at this height (i.e., daily)
Low = Infrequently found at this height
Very low = Occurrence possible, but very rarely
None = Almost never expected to fly at this height

Synergistic Effects

Synergistic effects are defined by the FAA (2020) as hazards created as a result of project conditions, in combination with other offsite conditions (FAA Guideline 2.10, Section 3.2). The potential for an increase in detrimental synergetic effects is based on species' uses of various land covers and other habitat elements for nesting, roosting, and foraging activities and the potential for movements among habitats for these uses. The assessment considered two factors that could result in movements among different land covers or habitats: the individual characteristics of the species (i.e., whether they move among different land covers for these activities) and whether the land covers that are used by these species increased or decreased.

Pre- and post-project conditions in existing and reclaimed grasslands would be similar, except that less area of seasonal wetlands, which are attractive to some species as foraging and drinking sites, would be present on reclaimed lands. Therefore, post-project grassland habitats would be less attractive as nesting, roosting and foraging habitats, and potential to attract hazardous species from adjacent lands would be lower than in existing conditions.

Creation of new detention ponds could attract species to the project lands from elsewhere to rest and drink. The location of ponds outside of the 10,000 ft critical zone around Mather Airport, however, would avoid creating significant synergistic hazards.

Overall Conclusions Regarding the Magnitude and Changes in Bird-Aircraft Strike Hazards

The potential magnitude and change in wildlife hazards to aircraft is based on the evaluation of all of the contributing factors to hazard levels discussed in previous sections. In summary:

- Post-project habitat conditions would be generally similar to the pre-project conditions except vernal pools and seasonal wetlands would decline and detention ponds would increase.
- Conditions during mining would be of low quality for most species due to lack of vegetation and disturbance from operations.
- Wildlife use of the expansion areas under post-project conditions would not change substantially for species that use grassland habitat. Species that are attracted to small (4-5 acre) ponds would likely increase, including Canada Geese, ducks, and swallows.
- Aircraft traffic over the Aspen VIII & IX project area is relatively low (500/month), and only 16 flights (3%) fly below 1,000 ft over the site and 5 (<1%) fly below 500 ft.
- Most potentially hazardous bird species or groups fly primarily at heights below 100 ft. About half of these species fly with moderate frequency at heights of 100-500 ft. Frequencies of flights by all species and groups above 500 ft range from low to none.
- Bird-aircraft collisions recorded for aircraft using Mather Airport occur infrequently (0.017% of all flights) and over 80% occur at heights below 200 ft. and less than 7% occur between 200 and 1,000 ft.

- Creation of 9.5 acres of detention ponds could create a minor attraction of birds from surrounding areas to rest and drink at the pond, thereby creating a minor potential synergistic effect, but the location of the ponds outside the 10,000 ft critical zone for Mather Airport indicates that the created risk would be low.

Based on the evaluation of the combination of relevant factors the risk of bird-aircraft collisions is not expected to significantly increase as a result of mining of the amendment lands. The distance of expansion areasfrom Mather Airport, the different heights at which aircraft and bird fly over the site, and the similarity of pre- and post-mining habitat conditions would reduce the potential for any net change in bird-aircraft collision hazard. The minor expected increase in waterbird use at the post-mining detention ponds also is not considered likely to significantly affect collision risk, due to distance from the airport and the flight heights of birds and aircraft. Overall, the incidence of bird-aircraft collisions is not expected to change following the mining proposed in the amendment.

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APPENDIX D

BIOLOGICAL RESOURCE ASSESSMENT

Biological Resources Assessment

Aspen VIII & IX Mine Project Amendment
Sacramento County, California

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April 2025

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1.0 INTRODUCTION

Teichert Materials (Teichert) is proposing to expand its Aspen VIII and IX Mine project (Existing Mine) located in unincorporated Sacramento County along Elder Creek Road. The current entitlement for the Existing Mine allows for surface mining on approximately 353 acres of a 683-acre site, with mining to be completed by December 31, 2031 and the site to be reclaimed by December 31, 2033. The proposed amendment would expand the Existing Mine both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres (Project). The Project is titled "Aspen VIII & IX Use Permit Amendment". In addition to expanding the Existing Mine boundary, the Project will also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of the Aspen IX site, which will allow for material to continue to be conveyed offsite rather than transported by truck. The expansion of the mine area, as proposed, will extend the duration of mining operations, after which time the mine site will be reclaimed to open space grassland in a manner consistent with the current approvals. As such, the Project would also amend the term of the permit (Condition of Approval #7) extending mining until December 31, 2046, with reclamation to be complete December 31, 2048.

Field surveys were conducted to identify existing biological resources present on the Project site and to determine if habitats present could support any special-status species. In addition, sensitive habitat areas (i.e., wetlands, riparian vegetation, trees, etc.) have been mapped and quantified using global positioning system (GPS) technology and aerial interpretation. Potentially significant impacts that may occur to these resources as a result of the proposed Project are identified and mitigation measures are suggested to reduce impacts to less than significant.

1.1 PROJECT SITE LOCATION AND SETTING

The Property, which is comprised of the Existing Mine footprint and the Project, is located approximately 2 miles south of Mather Field and one-half mile east of Bradshaw Road in unincorporated Sacramento County (Figure 1). As mentioned, the Project is comprised of two expansion areas located immediately adjacent to the Existing Mine (the Project Site). The Project Site is located within a portion of the *Rio de Los Americanos Land Grant*, in Township 8 north, Range 6 east, Sections 27, 28, 33, and 34 of the USGS 7.5-minute series *Carmichael, California* quadrangle.

APNs for the Project Site include:
NW Aspen VIII: 063-0180-005, 063-0180-006, 063-0190-014, 063-0190-015, 063-0190-021, 063-0190-028, 063-0190-029, 063-0190-027
Aspen XI South: 066-0020-006, 066-0050-003, 066-0030-001
Conveyor Extension South to Aspen IX South: 066-0020-006

The approximate center of the Property is located near Elder Creek Road at 38° 30’ 39” North and 121° 19’ 03” West within the Elder Creek Watershed. Elder Creek Road bisects the Property, with Aspen VIII to the north and Aspen IX to the south (Figures 2 and 3).

Existing habitat within the Property includes annual grasslands scattered with wetlands and other waters, including Elder Creek (Figure 3). The majority of the Property is used for aggregate mining pursuant to a conditional use permit granted by the County of Sacramento in 2016 (Conditional Use Permit Control Number PLNP2014-00201). The Elder Creek Open Space Preserve (Preserve) is a 92-acre conservation and preservation area established as a condition of approval for the Existing Mine (Conditional Use Permit Control Number PLNP2014-00201) and the corresponding U.S. Army Corps of Engineers (USACE) permit number SPK-2008-00909. The Preserve protects a portion of Elder Creek that flows through the Aspen VIII and Aspen IX properties, as well as associated wetland and grassland habitats immediately adjacent to the creek channel. The majority of the proposed Project would be located immediately south and east of the Preserve within the Aspen IX property. The remainder of the Project will be located within the northwest portion of Aspen VIII. In addition to the Preserve, current surrounding land uses include the field office of Triangle Properties, Inc. (the Preserve manager and subsidiary of Teichert), as well as open space annual grasslands and grazing, rural residential homes, Bellevue and Arlington Cemeteries (a.k.a. Quiet Haven Memorial Park), a nursery facility (Everde Growers), and a wastewater treatment facility (Vineyard Surface Water Treatment Plant).

1.2 PROJECT DESCRIPTION

Teichert is requesting to amend its existing use permit and reclamation plan for the Existing Mine (PLNP2014-00201) to expand mining of aggregate material (sand and gravel) to 245.6 acres of unmined areas adjacent to the approved mine site in the northwest corner of Aspen VIII and south of Elder Creek on Aspen IX. As a part of the expansion, Teichert is proposing to extend its existing electric conveyor belt system over Elder Creek to transport aggregate materials from Aspen IX South back to the Perkins processing facility.

The expansion of mining to areas adjacent to Aspen VIII and IX would include amendments to the existing Mining Use Permit, Reclamation Plan, and Development Agreements for Aspen VIII and IX. The Project would also include amendments to several conditions of approval on the Use Permit that are necessary to incorporate the expanded mine areas.

All the included APNs for this project include a Surface Mining Combining Zone (SM) designation thereby eliminating the need for a rezone. The existing SM zoning overlay indicates that the County has already determined these properties to be appropriate for surface mining with the grant of a use permit.

A timetable of 17 years is proposed to complete the Project, including all reclamation requirements. In general, mining will begin at the Aspen VIII Expansion Area and progress in a southerly direction toward the Existing Mine in Aspen VIII. During this phase Teichert will begin installing a conveyor bridge to span Elder Creek to the south and allow for access and mining in the Aspen IX Expansion Area. Sequential

activities in each area of operations include: removal of topsoil; removal of overburden; removal of aggregate material by scrapers, loaders, dozers and excavators; transport of material to Teichert's processing plant using an electrical conveyor system; and reclamation concurrent with mining.

Material mined from the site will be transported via conveyor belt to Teichert's Perkins processing plant, approximately 4 miles to the northwest. This conveyor will exit near the northwestern corner of Aspen VIII, where it will extend into the neighboring Aspen V-South Property to the north, before eventually tying into an existing conveyor system on a permitted mining area on Aspen V-South. Once mining operations are completed in the Aspen IX Expansion Area, the conveyor line will be removed and its footprint reclaimed in accordance with the proposed reclamation plan for the Project. In addition to mining activities, Teichert proposes to improve an existing culvert that connects Elder Creek between the Aspen VIII and IX Properties from underneath Elder Creek Road. All ancillary elements and construction activities, including the culvert replacement in Elder Creek, have been included as part of the previously issued permit.

1.3 PRESERVATION

The Preserve protects a portion of Elder Creek that flows through the Property, as well as associated wetland and grassland habitats immediately adjacent to the creek channel. A Long-Term Management Plan (Plan) was approved for the Preserve to ensure the protection of the habitat features and functions in perpetuity (Madrone 2017). A Conservation Easement was recorded for the Preserve on May 5th, 2017. In addition, Teichert was required to mitigate for impacts to protected trees, tree canopy, and herbaceous riparian vegetation associated with the Project per Conditional Use Permit Control Number PLNP2014-00201, the California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreement (Agreement) for the Aspen VIII and IX Project – Version 2 (Notification Number 1600-2016-0233-R2), and the Aspen VIII & IX Tree Mitigation Plan (Mitigation Plan) (Teichert 2016). A total of 218 valley oak, interior live oak, and Oregon ash seedlings were planted in the Preserve (On-Site Mitigation Area) and the Aspen IV-South Preserve (Off-Site Mitigation Area). The successful establishment of these mitigation plantings created 3.67 acres of riparian habitat to satisfy mitigation for impacts to tree canopy and riparian vegetation. As of 2022, Teichert fulfilled these mitigation requirements. The mitigation plantings and riparian habitat established within the Preserve are now managed as part of the Preserve. It should be noted that establishment of this Preserve pre-dated establishment of the South Sacramento Habitat Conservation Plan.

1.4 RECLAMATION

The proposed end use for the Project Site after reclamation is the same as for the Existing Mine: open space annual grassland and/or irrigated pasture suitable for grazing (Teichert 2015a). To achieve this end, overburden and topsoil will be placed and graded to provide an appropriate growing medium for the establishment of a protective vegetative cover and future forage use. Slopes will be reclaimed to no steeper than two feet horizontal to one foot vertical (2:1), with rounded edges in order to mimic surrounding landforms, and then seeded to prevent erosion. After reclamation slopes have been

constructed, the pit floor will be completed and seeded with an appropriate grassland or pasture seed mix selected for forage value. Reclamation of all mined areas within the Project Site will create a total of approximately 61.7 acres of grassland slopes surrounding approximately 158.4 acres of annual grassland habitat within the reclaimed floor (Figure 5). Other areas, totaling approximately 16 acres, will also be restored back to grasslands (i.e., former stockpile areas, berms, future pads for road right-of-ways, etc.). In addition, approximately 9.6 acres of stormwater retention pond areas will be created on the pit floor to collect surface runoff, provide supplementary water sources for cattle, and protect surrounding land.

An amended Reclamation Plan (Plan) has been prepared for the Property pursuant to the California State Surface Mining and Reclamation Act (SMARA) of 1975 and associated regulations and the Sacramento County Code (Teichert 2015a). Included in the Plan are detailed descriptions of existing site conditions (including soils and hydrology), site-specific plans for soils removal/handling and erosion-control, protocols for vegetation establishment and protection (including noxious/invasive weed management), and specific monitoring and performance standards for revegetation success. The revegetation methods outlined in the Plan are intended to optimize the grazing quality of the Project Site and the aesthetic value of the area, while also providing foraging habitat for raptors and other species. In order to ensure long-term beneficial use of the site as proposed, a grazing management plan is also included in the Plan.

2.0 REGULATORY OVERVIEW

This section provides a brief summary of the federal, state, and local laws, regulations and policies that are relevant to addressing the biological resources identified at the Project Site. Regulated or sensitive resources studied and analyzed herein include special-status plant and wildlife species, nesting birds and raptors, sensitive plant communities, jurisdictional waters and wetlands, and locally protected resources.

2.1 FEDERAL REGULATIONS

2.1.1 Federal Endangered Species Act

The Federal Endangered Species Act (FESA) protects plants and animals that are listed as endangered or threatened by the National Marine Fisheries Service (NMFS) and United States Fish and Wildlife Service (USFWS). In general, NMFS is responsible for the protection of listed marine species and anadromous fish species, while other listed species are under USFWS jurisdiction. The FESA also gives USFWS and NMFS the ability to designate critical habitat for endangered species (i.e., habitat that is considered "essential to the conservation of the species").

Under Section 7 of the FESA, federal agencies are required to enter into formal consultation with the USFWS and/or NMFS on proposed federal actions (i.e., actions authorized, funded, or carried out by federal agencies) if their actions could adversely affect a listed (or proposed) species or its critical habitat. Through consultation and the issuance of a biological opinion, the USFWS may issue an incidental take statement allowing take of the species that is incidental to an otherwise authorized activity, provided the activity will not jeopardize the continued existence of the species or result in the destruction or adverse modification of a species' critical habitat. (16 U.S.C. 1536(a)(2).) Section 9 of the FESA prohibits the taking of threatened or endangered wildlife, where taking is defined as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in any such conduct" (16 U.S.C. 1532(19)). The FESA prohibitions and requirements are different, however, for federally threatened or endangered plant species. For plants, the FESA prohibits the taking of threatened or endangered plants only from areas within federal jurisdiction, or if such take would result in a "knowing violation of any [State law or regulation]" (16 USC 1538). Therefore, in the absence of a federal nexus, a project does not require an incidental take permit pursuant to FESA for impacts to listed plants on private lands. Section 10 of the FESA provides for issuance of incidental take permits where no other federal actions are necessary and the taking is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity provided a Habitat Conservation Plan (HCP) is developed. (16 U.S.C. 1539.)

2.1.2 Federal Clean Water Act

2.1.2.1 Federal Clean Water Act, Section 404

The purpose of the Clean Water Act (CWA) is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." Pursuant to Section 404 of the CWA, the U.S. Army Corps of

Engineers (USACE) and the U.S. Environmental Protection Agency (EPA) regulate the discharge of dredged or fill material into Waters of the United States (Waters of the U.S.). Before a person or entity may discharge dredged or fill material into Waters of the U.S., a permit must be obtained from USACE. The USACE can issue an individual permit (for projects resulting in substantial impacts) or a general permit (i.e., Nationwide Permit [for those that result in only minimal individual or cumulative adverse effects]).

The definition and scope of "Waters of the U.S." has been the focus of much regulation and litigation over the past 20-plus years. The CWA statute does not expressly define this term, so it has been subject to agency rulemaking as well as judicial interpretation. Of recent note: in January 2023, the EPA and Corps issued regulations (the "2023 Rule") which sought to revise the definition of "Waters of the U.S." consistent with the 2006 decision by the U.S. Supreme Court in *Rapanos v. United States*, 547 U.S. 745 (2006) ("*Rapanos*"). In *Rapanos*, a four-justice plurality of the Court interpreted "Waters of the U.S." as including "relatively permanent, standing or continuously flowing bodies of water" that are connected to "traditional navigable waters" as well as wetlands which have a "continuous surface connection" to such waterbodies. (*Id.* at 739.) Justice Anthony Kennedy issued a concurring opinion which concluded that, in to be considered a "Water of the U.S.", a water or wetland must possess a "significant nexus" to waters that are, or could be made, "navigable in fact." (*Id*. at 759.) Justice Kennedy opined that wetlands possess such a "significant nexus" if they "either alone or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of traditional navigable waters, the territorial seas, or interstate waters." The 2023 Rule incorporated both jurisdictional standards from *Rapanos* ("relatively permanent" and "significant nexus") into the definition of "Waters of the United States."

On May 25, 2023, the U.S. Supreme Court decided *Sackett v. EPA*, 143 S. Ct. 1322 (2023). Although the case did not involve a direct challenge to the 2023 Rule, the jurisdictional standards stemming from *Rapanos* and contained within the 2023 Rule were at issue. The Court held that the "significant nexus" standard set forth in Justice Kennedy's concurrence was "inconsistent with the text and structure of the [CWA]," and instead agreed with the *Rapanos* plurality that "Waters of the U.S." includes "only those relatively permanent, standing or continuously flowing bodies of water…described in ordinary parlance as 'streams, oceans, rivers, and lakes.'" (143 S. Ct. at 1336.) The Court went on to hold that wetlands are considered to be Waters of the U.S. only when they have a "continuous surface connection to bodies that are "waters of the United States" in their own right, so that there is no clear demarcation between "waters" and "wetlands."

Following *Sackett*, the USACE and EPA revised the 2023 Rule to remove the "significant nexus" standard and to make clear that wetlands are only considered to be "Waters of the U.S." if they possess a "continuous surface connection" to a traditionally-navigable waters or a relatively permanent, standing or continuously flowing tributary to such waters.

2.1.2.2 Federal Clean Water Act, Section 401

Section 401 of the Clean Water Act requires any person applying for a Section 404 permit for activities resulting in a discharge into Waters of the U.S. to obtain a water quality certification from the state finding that the fill is consistent with the state's water quality standards and criteria. In California, the entity responsible for issuing water quality certifications is the State Water Resources Control Board, acting through its Regional Water Quality Control Boards (RWQCB). Because the water quality certification program is triggered by the need for a Section 404 permit and because both programs are a part of the Clean Water Act, the definition of "Waters of the U.S." under Section 401 is identical to the definition used by USACE under Section 404 (above).

2.1.3 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) implements international treaties between the United States and other nations devised to protect migratory birds. The MBTA regulates or prohibits taking, killing, possession of, or harm to migratory bird species including their parts, eggs and nests unless expressly authorized in the regulations or by permit (i.e., rehabilitation, scientific collecting, etc.) (16 U.S.C. 703.). The list of migratory birds (50 CFR 10.13) includes nearly all bird species native to the United States. The Migratory Bird Treaty Reform Act of 2004 further defined species protected under the act and excluded all non-native species.

2.1.4 Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (BAGEPA) (16 U.S.C. 668, et seq.) prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" bald or golden eagles, including their parts, nests or eggs. The BAGEPA defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." The term "disturb" is further defined by regulation as "to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity …, or (3) nest abandonment…" (50 CFR 22.6.) Pursuant to BAGEPA's implementing regulations, a permit may be obtained that authorizes take of bald eagles and golden eagles in certain limited circumstances where doing so is "compatible with the preservation of the bald eagle and the golden eagle; is necessary to protect an interest in a particular locality; is associated with, but not the purpose of, the activity; and cannot practicably be avoided." (50 CFR 22.80.)

2.2 STATE REGULATIONS

2.2.1 California Fish and Game Code

2.2.1.1 California Endangered Species Act

The California Endangered Species Act (CESA) (California Fish and Game Code Sections 2050-2116) generally parallels the main provisions of the FESA, but unlike its federal counterpart, CESA pertains to

state-listed endangered and threatened species. Section 2080 of the California Fish and Game Code prohibits the taking, possession, purchase, sale, and import or export of endangered, threatened, or candidate species, unless otherwise authorized by permit or in the regulations. Take is defined in Section 86 of the Fish and Game Code as “hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill.” (Fish & G. Code, § 86.)

CESA requires state agencies to consult with the California Department of Fish and Wildlife (CDFW) to ensure that any action they undertake is not likely to jeopardize the continued existence of any endangered, threatened or candidate species, or result in destruction or adverse modification of essential habitat. CESA allows CDFW to authorize exceptions to the state's prohibition against “take” of a listed species if the "take" of a listed species is incidental to carrying out an otherwise lawful project that has been approved under CEQA (Fish and Game Code Section 2081).

2.2.1.2 Fully Protected Species

California Fish and Game Code Section 4700 (mammals), Section 3511 (birds), Section 5050 (reptiles and amphibians), and Section 5515 (fish) designate certain species as “fully protected.” Fully protected species, or parts thereof (e.g., feathers, wings, talons), may not be taken or possessed by any individual at any time. Furthermore, CDFW prohibits any state agency from issuing incidental take permits for fully protected species. CDFW may issue licenses or permits for take of these species for necessary scientific research or live capture and relocation pursuant to the permit.

2.2.1.3 Species of Special Concern

Species of Special Concern (SSC) is a category used by the CDFW for those species which are considered to be indicators of regional habitat changes or are considered to be potential future protected species. SSC are defined by the CDFW as a species, subspecies, or distinct population of an animal native to California that are not legally protected under FESA, CESA, or the Fish and Game Code, but may be considered under CEQA Guidelines Section 15380.

2.2.1.4 Migratory Bird Species and Birds of Prey (Raptors)

Section 3503 of the California Fish and Game Code prohibits the take, possession, or needless destruction of the nests or eggs of any bird, except as provided by this code or any regulation made pursuant thereto. Additionally, Subsection 3503.5 protects all birds-of-prey (raptors) and their eggs and nests. These stipulations are similar to the federal MBTA and serve to protect nesting native birds. Section 3513 specifically prohibits the take or possession of any migratory nongame bird as designated in the MBTA.

2.2.1.5 Native Plant Protection Act

The Native Plant Protection Act (NPPA) prohibits the taking, possession, or sale within the state of any rare, threatened, or endangered plant species native to California as defined by the CDFW. The NPPA is

administered by the CDFW and set forth in California Fish and Game Code Sections 1900-1913. The NPPA includes exceptions from this take prohibition in several circumstances including agricultural and nursery operations; emergencies; and after properly notifying CDFW for vegetation removal from canals, roads, and other sites.

2.2.1.6 California Lake and Streambed Alteration Program

Section 1602 of the Fish and Game Code requires that a party notify CDFW before undertaking "any activity that may substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake." If CDFW determines that the proposed activity may substantially adversely affect fish and wildlife resources, it will require a Lake or Streambed Alteration Agreement (LSAA) which will include measures to protect affected fish and wildlife resources. In practice, CDFW generally interprets its jurisdictional limit at the top of the bank, or the outer edge of riparian vegetation, whichever is wider.

2.2.1.7 Protection of Non-Game Mammals

Fish and Game Code Section 4150 protects "non-game mammals," defined as a mammal occurring naturally in California that is not a game mammal, fully protected mammal, or fur-bearing mammal. A non-game mammal may not be "taken" or possessed. All bat species occurring naturally in California are considered non-game mammals.

2.2.1.8 Sensitive Natural Communities

In 2007, the State Legislature enacted Section 1940 of the Fish and Game Code which requires that CDFW develop and maintain a vegetation mapping standard for the State. CDFW's Vegetation Classification and Mapping Program (VegCAMP) ranks the State's "natural communities" by their rarity and threat. As of 2018, about half of the State has been mapped and classified through VegCAMP. Natural communities with ranks of S1 (critically imperiled), S2 (imperiled) and S3 (vulnerable) are considered "Sensitive Natural Communities" which must be addressed in the environmental review processes of CEQA and its equivalents. CEQA requires that impacts to sensitive natural communities be evaluated and mitigated to the extent feasible.

2.2.1.9 California Natural Diversity Data Base

The CDFW administers the California Natural Diversity Data Base (CNDDB), which maintains a list of special-interest plants, animals, and natural communities that occur within California. These particular species, natural communities, or habitat types are designated as sensitive because of their rarity (e.g., very localized distribution, few scattered occurrences) and/or because of some threat (e.g., development, off-road vehicles) to this specific habitat type. The purpose of these listings is solely informational; there is no regulatory protection of these species or communities afforded by these CNDDB listings. However, these species or communities may be evaluated by the lead agency on a case by case basis to determine significance criteria under CEQA.

2.2.2 Porter-Cologne Water Quality Act

The State Water Resources Control Board (SWRCB) and the local RWQCB have jurisdiction over "waters of the state" pursuant to the Porter-Cologne Water Quality Act (Porter-Cologne). "Waters of the State" are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state" (Water Code 13050 (e)). Wetlands are considered waters of the state if, "under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation" (SWRCB 2019).

Porter-Cologne requires any person discharging waste, or proposing to discharge waste, that could affect the quality of waters of the State to file a Report of Waste Discharge with the RWQCB (Water Code 13260(a)). The RWQCB will either issue, or waive the issuance of, Waste Discharge Requirements (WDRs) for the proposed discharge which will include conditions on the discharge to ensure the protection of water quality. Through the WDR program, the RWQCB also regulates discharges to "isolated" water features which are not considered Waters of the U.S. under the Federal CWA.

Porter-Cologne also requires compliance with the National Pollutant Discharge Elimination System (NPDES), including compliance with the California Storm Water NPDES General Construction Permit for discharges of storm water runoff associated with construction activities. General Construction Permits for projects that disturb one or more acres of land require development and implementation of a Storm Water Pollution Prevention Plan (SWPPP).

2.2.3 California Rare Plant Ranks

The California Native Plant Society (CNPS) maintains the *Inventory of Rare and Endangered Plants of California* (CNPS 2014), which provides a list of plant species native to California that have low population numbers, limited distribution, or are otherwise threatened with extinction. Plant species meeting one of these criteria are assigned to one of six California Rare Plant Ranks (CRPRs). The rank system was developed in collaboration with government, academia, non-governmental organizations, and private sector botanists, and is jointly managed by CDFW and the CNPS. The California Rare Plant Ranks are currently recognized in the California Natural Diversity Database (CNDDB). The definitions of the CNPS California Rare Plant Ranks are:

- CRPR 1A – presumed extirpated in California and either rare or extinct elsewhere;
- CRPR 1B – rare, threatened, or endangered in California and elsewhere;
- CRPR 2A – presumed extirpated in California, but more common elsewhere;
- CRPR 2B – rare, threatened, or endangered in California but more common elsewhere;
- CRPR 3 – a review list of plants about which more information is needed; and

- CRPR 4 – a watch list of plants of limited distribution.

CRPR List 1A and 2A are presumed extirpated in California. In general, CRPR List 3 and 4 plants do not meet the definition of endangered, threatened, or rare pursuant to CEQA Section 15380; however, these species may be evaluated by the lead agency on a case-by-case basis to determine significance criteria under CEQA.

2.2.4 California Environmental Quality Act

The California Environmental Quality Act (CEQA) requires evaluations of the effects of discretionary projects on biological resources, including federal and/or state-listed species, as well as species which are not protected on a federal or state list but which may be considered rare, threatened or endangered (CEQA Guidelines Section 15380). Such species may include candidate species, species proposed for listing and/or species of special concern. Many plant species included in the California Native Plant Society's Rare Plant Inventory are considered under Section 15380 of the Guidelines as well. If a significant impact to any of these species will occur as a result of a discretionary project, the lead agency will require mitigation, if feasible.

2.2.4.1 CEQA Significance Criteria

Section 15064.7 of the CEQA Guidelines encourages local agencies to develop and publish the thresholds that the agency uses in determining the significance of environmental effects caused by projects under its review. However, agencies may also rely upon the guidance provided by the expanded Initial Study checklist contained in Appendix G of the CEQA Guidelines. Appendix G of the CEQA Guidelines provides examples of impacts that would normally be considered significant. Based on these examples, impacts to biological resources would normally be considered significant if the project would:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS;
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS;
- Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the CWA (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; or
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

An evaluation of whether or not an impact on biological resources would be substantial must consider both the resource itself and how that resource fits into a regional or local content. Substantial impacts would be those that would diminish, or result in the loss of, an important biological resource, or those that would obviously conflict with local, state, or federal resource conservation plans, goals, or regulations. Other impacts are sometimes locally important but not significant according to CEQA. The reason for this is that although the impacts would result in an adverse alteration of existing conditions, they would not substantially diminish, or result in the permanent loss of an important resource on a population-wide or region-wide basis.

2.3 LOCAL REGULATIONS

2.3.1 Sacramento County Tree Preservation and Protection Ordinance

Sacramento County outlines requirements for the protection of oak trees in County Code 19.12. This policy and ordinance requires a project applicant to obtain authorization from the County for any project impacts which would encroach within the dripline of or destroy, kill or remove any "tree," as defined, within the urban area of the unincorporated area of Sacramento County, on any property, public or private. The ordinance defines "trees" as follows:

> [A]ny living native oak tree having at least one trunk of six inches or more in diameter measured four and one-half feet above the ground, or a multi-trunked native oak tree having an aggregate diameter of ten inches or more, measured four and one-half feet above the ground (dbh).

The ordinance gives the County authority to mandate a variety of control measures to mitigate damage to oak trees caused by land development.

2.3.2 Sacramento County General Plan

The most recent update to the County's General Plan occurred in 2011. The current General Plan has a planning horizon of 2030. The Conservation Element of the General Plan contains goals and policies that provide direction regarding the conservation, maintenance, development, and utilization of natural resources. The Conservation Element addresses water resources, mineral resources, material recycling, soil resources, vegetation and wildlife, aquatic resources, terrestrial resources, and cultural resources. The following is a summary of the Conservation Element objectives and policies pertaining to biological resources which are most relevant to the proposed project:

SECTION V – VEGETATION AND WILDLIFE

Habitat Mitigation

Objective: Mitigate and restore for natural habitat and special status species loss.

Policies:

CO-58. Ensure no net loss of wetlands, riparian woodlands, and oak woodlands.

CO-59. Ensure mitigation occurs for any loss of or modification to the following types of acreage and habitat function: (1) vernal pools; (2) wetlands; (3) riparian; (4) native vegetative habitat; and (5) special status species habitat.

CO-60. Mitigation should be directed to lands identified on the Open Space Vision Diagram and associated component maps (please refer to the Open Space Element).

CO-61. Mitigation should be consistent with Sacramento County-adopted habitat conservation plans.

CO-62. Permanently protect land required as mitigation.

Land Use Adjacent to Rivers and Streams

Objective: Land uses within and development adjacent to stream corridors are to be consistent with natural values.

Policies:

CO-114. Protect stream corridors to enhance water quality, provide public amenities, maintain flood control objectives, preserve and enhance habitat, and offer recreational and educational opportunities.

CO-115. Provide setbacks along stream corridors and stream channels to protect riparian habitat functions.

SECTION VII – TERRESTRIAL RESOURCES

Landmark and Heritage Tree Protection

Objective: Heritage and landmark tree resources preserved and protected for their historic, economic, and environmental functions.

Policies:

CO-138. Protect and preserve non-oak native trees along riparian areas if used by Swainson's Hawk, as well as landmark and native oak trees measuring a minimum of 6 inches in diameter or 10 inches aggregate for multi-trunk trees at 4.5 feet above ground.

CO-139. Native trees other than oaks, which cannot be protected through development, shall be replaced with in-kind species in accordance with established tree planting specifications, the combined diameter of which shall equal the combined diameter of the trees removed.

Objective: A coordinated, funded Urban Tree Management Plan and program sufficient to achieve a doubling of the County's tree canopy by 2050 and promote trees as an economic and environmental resources for the use, education, and enjoyment of current and future generations.

Policies:

CO-145. Removal of non-native tree canopy for development shall be mitigated by creation of new tree canopy equivalent to the acreage of non-native tree canopy removed. New tree canopy acreage shall be calculated using the 15-year shade cover values for tree species.

CO-146. If new tree canopy cannot be created onsite to mitigate for the non-native tree canopy removed for new development, project proponents (including public agencies) shall contribute to the Greenprint fund in an amount proportional to the tree canopy of the specific project.

The General Plan does expand on the protection of other resources, including other native trees and riparian habitats. Specifically, Sacramento General Plan Policies CO-138 and CO-139 build on Sacramento County's Tree Preservation and Protection Ordinance by requiring that other native trees (e.g., California sycamore and California black walnut) also be protected or otherwise mitigated for in accordance with existing tree replacement policies and standards for native oaks. Sacramento General Plan Policy CO-140 further expands on tree protections by addressing tree canopy and other mitigation requirements for native oak woodlands, oak savannah and mixed riparian areas. Impacts to non-native tree canopy are addressed in the Urban Forest Management section of the General Plan under policies CO-145 and CO-146, which require mitigation for loss of non-native tree canopy as a result of development. Onsite mitigation for losses to tree canopy shall be carried out through the creation of mitigation areas equivalent to the acreage of canopy removed, with new tree canopy calculated using the 15-year shade values for tree species. If new tree canopy cannot be created onsite, a contribution may be made to the Greenprint fund in an amount proportional to the impacted tree canopy.

2.3.3 South Sacramento Habitat Conservation Plan and Aquatic Resources Program

The South Sacramento Habitat Conservation Plan (SSHCP), which was approved by the County in 2018, is a regional approach to addressing development, habitat conservation, and agricultural lands within the south Sacramento County region. The geographic scope of the SSHCP encompasses over 317,000 acres and is bounded by U.S. Highway 50 to the north, the Sacramento River to the west, the Sacramento

County line with El Dorado and Amador counties to the east, and the Sacramento county line with San Joaquin County to the south (the Plan Area). The SSHCP Plan Area includes lands within and outside a designated Urban Development Area (UDA), where the majority of impacts to species' habitats are expected to occur, as well as a proposed interconnected preserve system. The Project Site is located within the SSHCP Plan Area and within the UDA.

The SSHCP provides streamlined "incidental take" coverage under Section 10 of the FESA for certain "covered activities," including aggregate mining, undertaken or permitted by the Plan Permittees (the County of Sacramento, the City of Galt, the City of Rancho Cordova, the Sacramento County Water Agency, and the Southwest Connector Joint Powers Authority) as well as Third-Party Project Proponents that are under the jurisdiction of the Plan Permittees.

The SSHCP provides take authorization for 28 Covered Species, of which 11 are currently listed as threatened or endangered under the CESA or FESA. The Covered Species include 5 invertebrates, 2 amphibians, 2 reptiles, 9 birds, 2 mammals, and 8 plants. The SSHCP also identifies 17 land cover types that are used to determine project Avoidance and Minimization Measure (AMM) and mitigation fee requirements. The SSHCP mitigates for all direct and indirect impacts to the Covered Species and their habitats through the enforcement of AMMs, establishment of a preserve system, establishment/re-establishment of habitats, and implementation of monitoring and management programs. The SSHCP is funded by mitigation fees and land dedications in lieu of fees.

In addition, the SSHCP implements an aquatic resource permitting strategy for SSHCP covered activities which would discharge fill material into wetlands and other waters. This multi-tiered strategy was developed in conjunction with the USACE and the RWQCB, and draws upon the content of the SSHCP, an Aquatic Resources Program (ARP) developed by the Plan Permittees and local aquatic resource protection ordinances. The ARP and the associated permitting strategies rely, at all levels of permitting, on the SSHCP to address avoidance, minimization and compensatory mitigation requirements for impacts to aquatic resources. Compensatory mitigation requirements for impacts to aquatic resources are satisfied through the payment of SSHCP fees, a portion of which is paid into the USACE- and RWQCB-approved South Sacramento In-Lieu Fee Program.

3.0 METHODS

The analysis presented in this document utilizes previously conducted wetland delineations, biological assessments, various published documents, personal communication with expert biologists, and recent on-site field surveys of the Project Site. The distributions of special-status species were primarily derived from the CNDDB records, various field survey efforts, and to a lesser extent online citizen science observation records. The following provides a summary of existing documents related to the Project and describes the methodology for describing habitat communities and ascertaining likelihood of species occurrence.

3.1 WETLAND DELINEATION

An aquatic resources delineation of the Project area was completed by EcoSynthesis Scientific and Regulatory Services in 2023 (EcoSynthesis 2023), with additional information relating to federal (Clean Water Act) jurisdictional status gathered and submitted to the USACE in 2024 with a request for an approved jurisdictional determination.

3.2 PRE-FIELD SURVEY INVESTIGATIONS AND LITERATURE REVIEW

A comprehensive literature review, based on the professional experience of contributing biologists within the region and elsewhere in California, has been conducted for the Project Site in order to develop the most accurate list of potentially-occurring special-status plant and animal species. In addition, using the Rarefind 5.0 (CNDDB 2024) software program, a standard nine-quadrangle California Natural Diversity Data Base (CNDDB) report was generated for the study area (i.e., a "nine-quad query", or query of the U.S. Department of the Interior, Geological Survey 7.5-minute topographic quadrangle in which the study area is found as well as the immediate eight surrounding topographic quadrangles). The CNDDB contains extensive records for special-status species, as well as sensitive natural communities, which have been reported to the CDFW by a variety of sources, including researchers, landowners, field biologists, and the public. Furthermore, because the CNDDB does not provide a comprehensive inventory of all sensitive species statewide, other sources of information on special-status species in California were also reviewed to determine if any special-status species not identified in the Rarefind 5.0 report have the potential to occur on the study area. These additional resources include:

U.S. Fish and Wildlife Service, Sacramento Field Office website – Official list of federal candidate, proposed, threatened, and endangered species having the potential to occur in the study area; generated on 28 March 2024 (USFWS 2024)

California Native Plant Society's Online Inventory of Rare and Endangered Plants of California – List of special-status species that may occur in the study area; generated on 27 March 2024 (CNPS 2024)

California Natural Diversity Database (CNDDB) Special Animals List (CNDDB 2024) – the official list of special status animals tracked by the CNDDB regardless of their legal or protection status. Special status classifications are provided by CDFW, USFWS and other conservation

organizations such as American Fisheries Society, Bureau of Land Management, International Union for Conservation of Nature (IUCN), and U.S. Forest Service; accessed March 2024

CDFW California Wildlife Habitat Relationship System (CWHR Model Version 10) (CWHR 2024) – a list of special-status species that may occur in the study area; generated March 2024

eBird Data Base (http://www.ebird.org) (eBird 2024) – online database of citizen science observations of bird species in or immediately adjacent to the study area; accessed March 2024.

iNaturalist Data Base (http://www.inaturalist.org) (iNaturalist 2024) – online database of citizen science observations of living organisms of all taxons in Sacramento County; accessed March 2024.

South Sacramento Habitat Conservation Plan (SSHCP 2018) – the SSHCP provides life histories and maps of modeled habitat for all covered species

3.3 SPECIAL-STATUS SPECIES OCCURRENCE POTENTIAL

The potential for special-status plants and animals depends largely on the presence of specific habitat types within the Project Site. Habitat types identified in previous documents and recent field assessments were evaluated with known habitat requirements for each special-status species with potential to occur in the regional area. Each species' potential to occur within the Project Site was then assessed and ranked as either:

- Known to Occur – Taxon was observed within the Project Site during recent surveys.
- Likely to Occur – Taxon previously reported within or immediately adjacent to the Project site or otherwise expected to occur due to neighboring occurrences and substantial habitat on the Project Site.
- Could Occur – Suitable habitat is available within the Project Site; however, there is little to no other indicators that the taxon might be present.
- Unlikely to Occur – Taxon is unlikely to be present due to poor habitat quality, lack of suitable habitat features, or known restricted current distribution that does not include the Project area.

A list of all special-status plant and animal species known or potentially known to occur within the Project vicinity is shown in Attachment A (Table A-1). For each species identified to have reasonable potential to occur (i.e., 'Could Occur') within the Project Site, additional biological data were provided to assist in field surveys and potential impact analyses. Information gathered included specific habitat requirements, known distribution, and regional occurrences.

3.4 FIELD SURVEYS AND ACCOMPANYING DOCUMENTS

Field surveys were conducted to document existing conditions of the site and assess the potential for habitats on-site to support special-status species (as listed in Table A-1). Focused field surveys were conducted for special-status plants (Attachment B; EcoSynthesis 2024a), trees and tree canopy (Attachment C; Teichert 2024), bumble bees (Attachment D; EcoSynthesis 2024b), birds (Attachment E; EcoSynthesis 2024c), and bats (Attachment F; Sequoia 2024). Field survey methods are described briefly below and in detail in the respective attachments.

3.4.1 Aspen VIII & IX Amendment Botanical Survey (2024)

A botanical field survey report was prepared for the Project Site, including a 250-foot buffer, by Adrian Juncosa of EcoSynthesis Scientific and Regulatory Services Inc. (EcoSynthesis 2024a). The survey consisted of identifying all habitat types and vegetation communities, conducting protocol-level rare plant surveys, and compiling an inventory of all plant species observed at the site. Multiple botanical field surveys were conducted between April and May 2024 following procedures provided by CDFW. No special status plant species were recorded during the botanical field surveys. Details of the botanical field survey methodology and results can be found in Attachment B of this document.

3.4.2 Aspen VIII & IX Use Permit Amendment Arborist Report (2024)

An arborist field survey report was prepared for the Project Site, including a 150-foot buffer, by Teichert biologist Rebekah Tueller (ISA Certified Arborist, Cert. #WE-13795A) to record trees and tree canopy within and immediately adjacent to the Project Site (Teichert 2024). The arborist field survey was conducted on 09 and 10 April 2024 and consisted of identifying, measuring, and mapping all trees 4 inches diameter at breast height (dbh) or larger within and immediately adjacent to (i.e., 150 feet of) the Project Site. Each tree was evaluated for potential impacts as a result of the proposed Project, and alternatives were proposed to avoid and minimize tree and tree canopy impacts. Details of the arborist field survey methodology and results can be found in Attachment C of this document.

3.4.3 Aspen VIII & IX Amendment Bumble Bee Survey (2024)

A pollinator (bumble bee) field survey report was prepared for the Project Site, including a 250-foot buffer, by Adrian Juncosa of EcoSynthesis Scientific and Regulatory Services Inc. (EcoSynthesis 2024b). The survey focused on identifying special-status pollinator species that are candidates for listing as endangered or threatened in California, particularly the Crotch's bumble bee (*Bombus crotchii*). The pollinator field surveys were conducted concurrently with botanical and special-status bird surveys (EcoSynthesis 2024a; EcoSynthesis 2024c). Pollinator field surveys were conducted on 30 April; 03, 07, 19 May; and 27 June 2024. No special-status bumble bee species were observed within or immediate adjacent to (i.e., 250 feet of) the Project Site. Details of the pollinator (bumble bee) field survey methodology and results can be found in Attachment D of this document.

3.4.4 Aspen VIII & IX Amendment Bird Surveys (2024)

A bird field survey report was prepared for the Project Site, including a 250-foot buffer, by Adrian Juncosa of EcoSynthesis Scientific and Regulatory Services Inc. (EcoSynthesis 2024c). The report includes results from focused field surveys of special-status bird species and a list of all birds, regardless of conservation status, observed during multiple site visits from March 2023 through June 2024. Focused special-status bird surveys included observations of nesting, roosting, and foraging behavior of raptors and tricolored blackbirds, and transects to survey for western burrowing owls per the CDFW guidelines. Multiple special-status bird species were observed within or immediately adjacent to the Project Site. Details of the bird field survey methodology and results can be found in Attachment E of this document.

3.4.5 Aspen VIII & IX Amendment Bat Habitat Assessment (2024)

A bat field survey report was prepared for the Project Site, including a 300-foot buffer, by Scott Newton of Sequoia Ecological Consulting, Inc. (Sequoia 2024). The report includes results of focused field surveys for potential bat maternity roosting sites and an assessment of habitat suitability for special-status bat species within and immediately adjacent to (i.e., within 300 feet of) the Project Site. The survey was conducted on 24 May 2024. Potential bat habitats (i.e., foliage, crevices, and cavities of trees, as well as man-made structures) were recorded during the field survey and compared with the habitat requirements of regional special-status bats species to assess potential Project impacts. Details of the bat field survey methodology and results can be found in Attachment F of this document.

4.0 EXISTING CONDITIONS

The Project Site consists of approximately 245.6 acres of land, including the conveyor extension proposed in Aspen IX, and is primarily characterized by open space annual grassland. The majority of the Property is currently being mined by Teichert, with concurrent reclamation occurring as mining progresses. The mine area is bordered by the Elder Creek Open Space Preserve to the south and southeast. The Project Site represents the unmined portions of the Property immediately north of the Existing Mine on Aspen VIII and south and east of the Preserve on Aspen IX. Surrounding land uses include the Triangle Properties field office, rural residential homes, cattle grazing, agricultural cropland, a nursery facility (Everde Growers), two cemeteries (Arlington Memorial Cemetery and Bellevue Cemetery), and a wastewater treatment facility (Vineyard Surface Water Treatment Plant).

4.1 CLIMATE, TOPOGRAPHY, AND WATERSHED

Sacramento, as with the rest of California's Central Valley, is typical of a Mediterranean-type climate with hot, dry summers and cool, relatively wet winters. Average temperatures range from a low of 38°F in December to a high of 92°F in July (usclimatedata.com). Average annual precipitation is approximately 18.51 inches, with January usually the wettest month (usclimatedata.com).

Much of the Project Site is characterized by relatively flat to rolling topography supporting comparatively undisturbed annual grasslands. The elevation of the site ranges from approximately 60 to 85 feet above mean sea level (MSL).

The Project Site is located within boundaries of the Morrison Creek and Elder Creek Watersheds (Figure 6). The Morrison Creek watershed encompasses approximately 63.3 acres in the Aspen VIII Expansion Area, while the Elder Creek Watershed encompasses approximately 182.4 acres in the Aspen IX Expansion Area. Although Morrison Creek itself does not traverse the Project Site, the Aspen VIII Expansion Area lies within its southern watershed boundary. Elder Creek traverses the Aspen VIII and Aspen IX properties, but only a small segment of the creek is within the Project boundary (Figure 3). Elder Creek originates near the intersection of Kiefer Boulevard and Eagles Nest Road and eventually discharges into Morrison Creek near Brookfield Drive in the City of Sacramento, approximately 8 miles west of the Project Site. Historically, Elder Creek was probably an ephemeral to intermittent watercourse, seasonally supported by winter precipitation and runoff from the surrounding uplands. Recent irrigation activities on the Property provided year-round runoff into the creek, resulting in this stretch of Elder Creek functioning as a perennial system. However, irrigation activities on the Property ceased with the commencement of mining, and Elder Creek presently functions as an ephemeral creek as it did historically.

4.2 SOILS

Natural Resources Conservation Service (NRCS) soil surveys for Sacramento County identifies six soil types within in the Project Site (NRCS 1993) (Figure 7). The most predominant soil component (about 35

percent of the area) is Red Bluff loam, 0 to 2 percent slopes. San Joaquin silt loam, 0 to 3 percent slopes, is the second-most predominant soil type on the Project Site (about 25 percent of the area). Other soil types include Red Bluff-Xerarents complex, 0 to 2 percent slopes; Kimball silt loam, 0 to 2 percent and 2 to 8 percent slopes; San Joaquin silt loam, leveled; and Hedge loam, 0 to 2 percent slopes. Descriptions of these soil types are found in the aquatic resources delineation report (Ecosynthesis 2023).

4.3 HABITAT COMMUNITIES/VEGETATION

Presently, annual grasslands dominate the landscape on the Project Site (Figure 3). Elder Creek appears on the USGS 7.5-minute series Carmichael and Elk Grove, California quadrangles as a solid blue line feature (perennial drainage) and traverses the Project area in a northeast to southwest direction (Figure 3). In addition, other wetland features are present at the site, including vernal pools, seasonal wetlands, and seasonal ponds (Figure 3).

4.3.1 Annual Grassland

Annual grasslands on the Project Site (i.e., "Valley Grassland" per the SSHCP) include both natural, gently undulating topography as well as historically leveled areas. The majority of the grassland is best categorized as annual brome grasslands (*Bromus diandrus, B. hordeaceus*) though patches of wild oat grasslands (*Avena barbata, A. fatua*) occur within it. Other grass species of importance include medusahead (*Elymus caput-medusae*) and, locally on formerly leveled soils and in some wetlands, perennial ryegrass (*Festuca perennis*). Collectively, the grassland habitat consists of about 221 acres (not including approximately 16 acres of wetlands) and is currently grazing by cattle (Figure 3). Annual grasslands that maintain a natural topography and have not been leveled are generally located south of Elder Creek, within the southern and eastern portions of Aspen IX. Similar landscapes are also present near the northwestern corner and south-central portion of Aspen VIII. These areas consist of relatively flat to moderately rolling hills dominated by soft-chess brome (*Bromus hordeaceus*), ripgut brome (*Bromus diandrus*), hare barley (*Hordeum murinum*), brome fescue (*Festuca bromioides*), longbeak filaree (*Erodium botrys*), perennial mustard (*Hirschfeldia incana*), winter vetch (*Vicia villosa* var. *varia*), common fiddleneck (*Amsinckia intermedia*), yellow star-thistle (*Centaurea solstitialis*), and bindweed (*Convolvulus arvensis*). Vernal pools and seasonal wetlands are common within these relatively undisturbed landscapes (further discussed in Section 4.3.3).

Trees are largely absent in annual grassland communities except along borders where other features exist (i.e., roads, ditches, etc.). Most trees on site are the result of ornamental landscape plantings around roads and residential homes. More information about existing trees can be found in the attached Arborist Report (Attachment C; Teichert 2023).

4.3.2 Disturbed

There are approximately 8.66 acres of "Disturbed" land cover on the Project Site (Figure 3). Disturbed land is defined by the SSHCP as "open-space areas that have been subjected to previous or ongoing disturbances such as along roadsides, trails, and parking lots. Scraped or graded land, gravel mining, and

waste disposal sites are included in this land cover type" (SSHCP 2018). The areas of the Project Site described as disturbed include previously graded land in the Aspen VIII Expansion Area. Disturbed lands are often vegetated by non-native grasses and forbs similar to annual grasslands, but they may harbor invasive plant species such as milk thistle (*Silybum marianum*), yellow-star thistle, and stinkwort (*Dittrichia graveolens*).

4.3.3 Wetlands and Waters of the U.S.

An aquatic resources delineation by Ecosynthesis (2023) identified and mapped wetlands and other waters as summarized in Table 1 below. This delineation was submitted to the USACE in October 2023. Additional information relating to this delineation was provided to USACE in November 2023. At the time of preparation of this assessment, the delineation is pending verification by USACE.

TABLE 1. WETLANDS AND WATERS OF THE U.S.

Wetland Type	Acres
Seasonal Wetlands	3.1225
Vernal Pools	12.9904
Seasonal Pond (<5 percent vegetative cover)	0.0443
Seasonal Tributary (Elder Creek)	0.0421
TOTAL	**16.1993**

The delineated aquatic resources are described below.

4.3.3.1 Seasonal Tributary (Elder Creek)

The majority of Elder Creek was delineated and preserved as part of the Existing Mine project, so it is not considered part of the Project Site for purposes of this analysis. Only a small portion of the creek over which a conveyor crossing will eventually be placed is included as part of the Project. Absent the irrigation runoff that formerly occurred, the small segment (123 lineal feet; 0.0421 acre) of Elder Creek that lies within the Project Site no longer supports hydrophytic vegetation; the four species observed included common hawkbit (*Leontodon saxatilis*), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*), Fitch's spikeweed (*Centromadia fitchii*), and hyssop loosestrife (*Lythrum hyssopifolium*). This current vegetation is typical of small depressional areas that are not wet enough to meet the three mandatory wetland criteria. Flow within the subject segment of the creek occurs for weeks or at most months each year. In the SSHCP, this habitat type is called "Streams/Creek."

4.3.3.2 Vernal Pools

Vernal pools are characterized as shallow depressions underlain by an impermeable soil layer that captures and stores seasonal rainfall in its basin, losing water primarily through evaporation rather than drainage. Numerous pools, totaling 12.9904 acres, occur throughout the undisturbed grassland areas of the Project Site (Figure 3). These vernal pools vary in maximum water depth between a few inches to 20 inches deep, and range in size from 0.0016 to 2.1844 acres. They are similar to other isolated,

depressional seasonal wetland features at the site, but typically support a predominance of native vernal pool plants such as slender popcornflower (*Plagiobothrys stipitatus* var. *micranthus*), Carter's buttercup (*Ranunculus bonariensis* var. *trisepalus*), Fremont's goldfields (*Lasthenia fremontii*), smooth goldfields (*Lasthenia glaberrima*), Great Valley coyote thistle (*Eryngium castrense*), creeping spikerush (*Eleocharis macrostachya*), annual hairgrass, Mediterranean barley, white navarretia (*Navarretia leucocephala*), double-horned downingia (*Downingia bicornuta* var. *picta*), dwarf woolly-marbles (*Psilocarphus brevissimus*), field owl's-clover (*Castilleja campestris*), and Rosy Douglas' meadowfoam (*Limnanthes douglasii* ssp. *rosea*).

Vernal pool habitat supports breeding and foraging habitat for many aquatic invertebrates such as flatworms (Phylum Platyhelminthes), snails (*Helisoma* spp. and *Physa* spp.), dragonflies and damselflies (Order Odonata), predaceous diving beetles (Family Dytiscidae), aquatic beetles (Family Hydrophilidae), and various crustaceans (branchiopods, ostracods, copepods). These habitats also provide feeding areas and resting sites for migratory birds. The vernal pool fairy shrimp (*Branchinecta lynchi*) and vernal pool tadpole shrimp (*Lepidurus packardi*), listed as threatened and endangered, respectively, pursuant to the federal Endangered Species Act, are also known to occur within several vernal pools on the Project Site and adjacent areas (C. Rogers, pers. obs.).

4.3.3.3 Seasonal Wetlands

The Project Site also supports numerous seasonal wetlands, totaling 3.1225 acres (Figure 3). These seasonal wetlands are saturated (and portions of larger ones may be partially inundated) in winter but remain dry through summer. These wetlands occur in grasslands and are usually underlain by clay or a heavy clay loam and are very similar to vernal pools but lack the water depth and duration and native annual forb dominance associated with vernal pools. Instead, these wetlands are frequently dominated by non-native wetland generalist plants, including ryegrass, Mediterranean barley, Mediterranean beardgrass, common hawkbit (*Leontodon saxatilis* subsp. *longirostris*), and hyssop loosestrife (*Lythrum hyssopifolia*). These wetlands, if inundated for sufficient periods, may also support the venal pool fairy shrimp.

4.3.3.4 Seasonal Pond

One small seasonal pond (0.0443 acre) occurs within the Project Site. This feature is hydrologically similar to a vernal pool, albeit perhaps slightly deeper, but differs from features categorized as vernal pools in having less than 5 percent absolute cover of vascular plants. In the SSHCP, this habitat type is called "Open Water."

5.0 SPECIAL-STATUS SPECIES AND SPECIES ACCOUNTS

Federal and State endangered species legislation gives special status to several plant and animal species known to occur in the vicinity of the Project Site. In addition, state resource agencies and professional organizations, whose lists are recognized by agencies when reviewing environmental documents (i.e., CRPR plants and SSC animals), have identified additional species as sensitive and occurring in the vicinity of the Project Site. Such species are referred to collectively as "special-status species." As provided in Attachment A (Table A-1), a list of special-status species known or potentially known to occur in the local region was compiled from records found in the literature review and database records, as well as from the SSHCP's modeled habitat mapping (see Section 3.2). The table also contains specific information for each of the special-status species, including federal and state designations, biological and distribution information, survey (blooming or activity) period, and likelihood of occurrence on the Project Site. Figures 8 and 9 include the results of special-status species locations from the USGS 7.5-minute series *Carmichael, California* quadrangle and eight surrounding quadrangles (i.e., the "CNDDB nine-quad query"). Sections 5.1, 5.2, and 5.3 below further describe those species with potential to occur on the Project Site based on the presence of suitable habitat.

5.1 PLANTS

A number of special-status plants have been documented in the CNDDB to occur in the vicinity of the site, and habitat communities on-site represent potentially suitable habitat for a number of other regionally occurring special-status plants (Table A-1, Figure 8). Nine of those species were considered to have potential to occur on the Project Site. These include dwarf downingia (*Downingia pusilla*), Boggs Lake hedge-hyssop (*Gratiola heterosepala*), hogwallow starfish (*Hesperevax caulescens*), Ahart's dwarf rush (*Juncus leiospermus* var. *ahartii*), legenere (*Legenere limosa*), pincushion navarretia (*Navarretia myersii* subsp. *myersii*), slender Orcutt grass (*Orcuttia tenuis*), Sacramento Orcutt grass (*Orcuttia viscida*), and Sanford's arrowhead (*Sagittaria sanfordii*).

Dwarf Downingia (*Downingia pusilla*)

Dwarf downingia is not listed pursuant to either the federal or California Endangered Species Acts (ESAs); however, it is listed as a CRPR 2B species by CDFW and CNPS. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. Dwarf downingia is known from vernal pools and other seasonal wetlands. The species appears to occupy a range of pool sizes and depths, with most records indicating that the species prefers smaller and/or shallower vernal pools with comparatively 'flashy' hydrology (CNDDB 2024). The species will also frequently occupy ephemeral drainages and swales and the seasonally fluctuating vernal pool-like edges of stock ponds and seasonal marshes (Baba pers. obs.). Flowering typically occurs between March and May.

In California, the species' range extends from the northern San Joaquin Valley (Merced and Fresno counties) in the south through the Sacramento Valley to Tehama County in the north, generally below

2,000 feet elevation. It is also known from the interior valleys on the Coast Range north of San Francisco (Napa and Sonoma Counties). Most occurrences occupy a belt from Sonoma County to the southern Sacramento Valley. Dwarf downingia, like some other members of the annual vernal pool flora, is also known from disjunct localities in Chile. There are nine known occurrence of dwarf downingia within the nine-quad query of the Project Site, the closest being CNDDB Occurrence No. 54, approximately 4.9 miles to the south of the Project Site (CNDDB 2024). This population is located in vernal pools east of Waterman Road, between Sheldon Road and Bond Road in Elk Grove. The population is still presumed extant.

Vernal pools and ponds at the Project Site are considered potential habitat for the species. However, based on negative findings of protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024a), dwarf downingia is not expected to occur at the Project Site at this time.

Boggs Lake Hedge-Hyssop (*Gratiola heterosepala*)

Boggs Lake hedge-hyssop is listed as threatened by the California ESA. The CNPS also includes Boggs Lake hedge-hyssop as a CRPR 1B plant. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. The species blooms between April and June. The species occurs over a wide geographic area but is strictly associated with the vernal pool-type hydrologic cycle. Boggs Lake hedge-hyssop has been reported to grow in vernal pools and playa lakes, as well as seasonal stock ponds and fluctuating lake margins. Most occurrences are from well-developed large or deep vernal pools that exhibit more extreme, longer inundation periods, often where interspecies completion is lower.

Boggs Lake hedge hyssop was first collected in 1954 from Bogg's Lake in Lake County, California. Since that time, numerous additional occurrences have been recorded, ranging from the Modoc Plateau, through the Sacramento Valley, Inner North Coast Range, and central Sierra Nevada Foothills, south to Merced and Fresno Counties in the San Joaquin Valley Region. Most records are from Tehama and Modoc Counties and are associated with northern volcanic mudflow vernal pools of the northern Sacramento Valley and Modoc Plateau. There are 12 known occurrences of Boggs Lake hedge-hyssop within the nine-quad query of the Project Site (CNDDB 2024). The nearest known location is approximately 2.5 miles northwest of the site, at Mather Field (CNDDB Occurrence No. 84; CNDDB 2024). These plants were recorded growing in deeper vernal pools and still presumed extant.

Vernal pools inundated for longer periods and the margins of seasonal marshes at the Project Site are considered potential habitat for the species. Based on negative findings of protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024a), Boggs Lake hedge-hyssop is not expected to occur at the Project Site at this time.

Hogwallow Starfish (*Hesperevax caulescens*)

Hogwallow starfish is not listed pursuant to either the federal or California ESAs; however, it is listed as a CRPR 4 species by the CNPS. It is not a SSHCP covered species. Hogwallow starfish is typically associated with shallow vernal pools and seasonally saturated clay flats. The species has also been found from a fallow (formerly irrigated) pasture (LSA 2009).

Hogwallow starfish has a wide distribution throughout the Central valley and adjacent foothills from Tehama County south to Kern County. It has also been recorded in San Luis Obispo County. Flowering typically occurs between March and June. There are no records of hogwallow starfish within the nine-quad query of the Project Site (CNDDB 2024). A previous survey conducted by ECORP Consulting did identify a population of hogwallow starfish at the Piliken Ranch near Sloughhouse in eastern Sacramento County (ECORP 2007), approximately 10 miles southeast of the Project Site. This population was recorded growing in a rocky, sparsely vegetated upland area. B. Baba revisited this location in 2009 but only observed dwarf evax (*Hesperevax acaulis*).

Some of the shallow vernal pools and seasonal wetlands at the Project Site are considered potential habitat for the species. Based on negative findings of protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024a), hogwallow starfish is not expected to occur at the Project Site at this time.

Ahart's Dwarf Rush (*Juncus leiospermus* var. *ahartii*)

Ahart's dwarf rush is not listed pursuant to either the federal or California ESAs; however, it is listed as a CRPR 1B species by the CNPS. It is also a covered species in the SSHCP; however, the SSHCP has not mapped modeled habitat for the species within the Project Site. Ahart's dwarf rush grows in a variety of seasonal wetland type habitats but appears to be restricted to acidic soils in vernal pool complexes. Although Ahart's dwarf rush has been recorded growing with more "deeply-adapted" vernal pool associates, most records indicate that the species prefers the margins of vernal pools or in swales and seasonal wetlands where hydrologic conditions are more "flashy." In addition, this species is also known to occur on gopher mounds along the margins of these wetlands (CNDDB 2024). Flowering generally occurs from late-March through May.

Presently, Ahart's dwarf rush is known from only 13 occurrences throughout the Central Valley. Populations are recorded from Tehama County in the north to Calaveras County in the south, with elevations ranging from 90 to 300 feet (CNDDB 2024). Most occurrences are from Butte and Sacramento Counties. The nearest known occurrence of Ahart's dwarf rush is approximately 1.8 miles northeast from the Project Site, at Mather Field just west of Eagles Nest Road (CNDDB Occurrence No. 8). These plants are located in shallow vernal pools and along vernal swales and still presumed extant (CNDDB 2024).

Vernal pools inundated for longer periods and the margins of seasonal marshes at the Project Site are considered potential habitat for the species. Based on negative findings of protocol-level rare plant

surveys conducted in 2024 (EcoSynthesis 2024a), Ahart's dwarf rush is not expected to occur at the Project Site at this time.

Legenere (*Legenere limosa*)

Legenere is not listed pursuant to either the federal or California ESAs; however, it is listed as a CRPR 1B species by the CNPS. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. Legenere grows in a variety of wetland habitats including vernal pools, seasonal marshes, floodplains of intermittent streams, and along the margins of cattle stock ponds. Legenere is associated with a wide range of physiographic/edaphic landscapes. Most records indicate that the species prefers the shallower areas of seasonal pools that are inundated for longer periods than average and typically support at least some perennial species such as spikerush (*Eleocharis macrostachya*). Flowering typically occurs from April to June.

This species' range includes the northern Central Valley from Shasta to San Joaquin County and the Inland Coast Range from Lake to Santa Clara County. Populations are reported from 83 occurrences, ranging in elevation from less than 3,300 feet (CNDDB 2024). The majority of known extant records are concentrated in Solano and Sacramento counties, with other scattered occurrences in Alameda, Lake, Napa, Sonoma, San Mateo, Santa Clara, Placer, Yuba, and Shasta counties (Holland 1983; Platenkamp 1998; CNDDB 2024). The nearest known occurrence of Legenere is approximately 1.4 miles south of the Project Site (CNDDB Occurrence No. 29; CNDDB 2024). Two colonies were identified growing in vernal pools just south of Florin Road and 0.7 miles east of Excelsior Road.

Vernal pools inundated for longer periods and the margins of seasonal marshes at the Project Site are considered potential habitat for the species. Based on negative findings of protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024a), Legenere is not expected to occur at the Project Site at this time.

Pincushion Navarretia (*Navarretia myersii* subsp. *myersii*)

Pincushion navarretia is not listed pursuant to either the federal or California ESAs; however, it is listed as a CRPR 1B species by the CNPS. It is also a covered species in the SSHCP; however, the SSHCP has not mapped modeled habitat for the species within the Project Site. Pincushion navarretia is a strict vernal pool endemic, often occurring in pools with moderate to highly acidic soils (CNPS 2024). Based on known populations and those observed in eastern Merced County, the species was associated with the ancient, weathered alluvial terraces comprising the Valley Springs and Ione Geologic Formations (Dittes and Guardino 2001). Generally, pincushion navarretia is presumed to occupy smaller and/or shallower pools where hydrologic conditions may be more 'flashy.' The species may be seen flowering from mid-April through May (Dittes and Guardino 2001, CNPS 2024).

Presently, pincushion navarretia is known from 16 occurrences along the eastern portion of the Central Valley and adjacent Sierra Nevada Foothill from Placer County south to Merced County, between 60 and

400 feet elevation (CNDDB 2024). The nearest known location of this species is approximately 10.6 miles northeast of the Project Site, in the Department of Fish and Wildlife Phoenix Field Ecological Reserve (CNDDB Occurrence No. 3; CNDDB 2024). The species occurs in two pools within the south half of the Preserve and are still presumed extant.

The smaller, shallow pools at the Project Site are considered potential habitat for pincushion navarretia. Based on negative findings of protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024a), pincushion navarretia is not expected to occur at the Project Site at this time.

Slender Orcutt Grass (*Orcuttia tenuis*)

Slender Orcutt grass is listed as threatened under the federal ESA and endangered under the California ESA. The CNPS also includes slender Orcutt grass as a CRPR 1B species. It is also a covered species in the SSHCP. Although the SSHCP has not mapped modeled habitat for the species within the Project Site, the Project Site is located within one (1) mile of the Mather Core Recovery Area. As such, the SSHCP requires that the Project Site be surveyed for Slender Orcutt grass.

Slender Orcutt grass is found primarily in vernal pools on substrates of volcanic origin but have also been found in places such as stock ponds and borrow pits. Orcutt grasses are strongly adapted to deeper vernal pools with more extreme hydrologic regimes. This species appears to be the least specific of Orcutt grasses with regard to specific habitats niches. This is confirmed by its occupation of a wider range of vernal pool sizes and vernal wetland types, as well as occurrences over a wider geographical range and landform types. Flowering may occur between May and September (usually May or June in the Central Valley), and sometimes October, making it one of the latest blooming members of the Orcutt grasses.

Slender Orcutt grass has been documented from 100 occurrences, which range in elevation from 85 feet in Sacramento County to 5,760 feet in Plumas County (CNDDB 2024). The species is found from Modoc County south to Sacramento County, with large concentrations occurring in Tehama County and the Modoc Plateau Vernal Pool Region. The nearest documented occurrence of Slender Orcutt grass is approximately 2 miles south of the Project Site (CNDDB Occurrence No. 16), in a narrow vernal pool west of Laguna Creek (CNDDB 2024). The population is till presumed extant.

The larger, deeper pools that remain inundated for extended periods at the Project Site are considered potential habitat for Sacramento Orcutt grass. Based on negative findings of protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024a), slender Orcutt grass is not expected to occur at the Project Site at this time.

Sacramento Orcutt Grass (*Orcuttia viscida*)

Sacramento Orcutt grass is listed as endangered under both the federal and California ESAs. The CNPS also includes Sacramento Orcutt grass as a CRPR 1B species. It is also a covered species in the SSHCP.

Although the SSHCP has not mapped modeled habitat for the species within the Project Site, the Project Site is located within one (1) mile of the Mather Core Recovery Area. As such, the SSHCP requires that the Project Site be surveyed for Sacramento Orcutt grass.

Sacramento Orcutt grass occurs primarily in large vernal pools that remain inundated for prolonged periods. Soils associated with this species tend to be strongly acidic and support a well-developed silica-iron hardpan layer approximately 2 to 10 feet below the surface. Many plants may only grow in years when seasonal rainfall is sufficient, particularly when rains begin in November and continue through the end of April. This plant is less likely to germinate in years of below-normal precipitation than other members of the Orcuttieae grasses. Flowering typically occurs in May and June.

Sacramento Orcutt grass is endemic to the southeastern Sacramento Valley, and has always been restricted to Sacramento County. It is known from only 18 occurrences, most of which are still presumed extant (CNDDB 2024). The recorded range of the species extends in a narrow band from just north of the American River near Orangevale to the vicinity of Rancho Seco Lake on Arroyo Seco Mesa, approximately 26 miles to the south. The nearest documented occurrence of Sacramento Orcutt grass is approximately 0.8 mile east of the Project Site (CNDDB Occurrence No. 25). This occurrence is from 2023 and is located approximately 0.85 miles southeast of the intersection of Jackson Road and Excelsior Road in pools inoculated with the species in 2014 and 2016 (CNDDB 2024).

The larger, deeper pools that remain inundated for extended periods at the Project Site are considered potential habitat for Sacramento Orcutt grass. Based on negative findings of protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024), Sacramento Orcutt grass is not expected to occur at the Project Site at this time.

Sanford's Arrowhead (*Sagittaria sanfordii*)

Sanford's arrowhead is not listed pursuant to either the federal or California ESAs; however, it is listed as a CRPR 1B species by the CNPS. It is also a cover species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. Sanford's arrowhead is associated with the shallow margins of small lakes and ponds, as well as slow moving sloughs, creeks, rivers, and canals. Numerous populations have also naturalized in ditches associated with irrigation and other drainage systems. Little is known regarding this species, although it appears to tolerate a wide range of freshwater marsh environments. Flowering typically occurs between May and August.

Sanford's arrowhead is widely distributed throughout the low elevations of the Central Valley. There are 49 records for this species within the nine-quad query of the Project Site, with the nearest record from within the Existing Mine area, though this population is presumed extirpated due to mining activities (CNDDB Occurrence No. 109; CNDDB 2024). There are three CDNDDB occurrences that are presumed extant that are less than 2 miles from the Project Site (CNDDB Occurrence No. 25, 147, and 148; CNDDB 2024). Occurrence No. 147 and 148 are populations that were successfully transplanted by Teichert from the Existing Mine area to Teichert's nearby Aspen III-South and Aspen IV-South properties,

respectively, as mitigation for impacts to CNDDB Occurrence No. 109 associated with the Existing Mine. These transplanted populations are located within the protected Morrison Creek Nature Preserve.

There is currently no suitable habitat for Sanford's arrowhead (i.e., slow moving, perennial water features) on the Project Site (EcoSynthesis 2023). In addition, Sanford's arrowhead was not found during protocol-level rare plant surveys conducted in 2024 (EcoSynthesis 2024a). Therefore, Sanford's arrowhead is not expected to occur at the Project Site at this time.

5.2 TREES AND TREE CANOPY

The Sacramento County Tree Preservation Ordinance and policies within the General Plan Conservation Element afford protections to native trees and native and non-native tree canopy. An arborist survey was conducted for the Project Site to determine the presence and distribution of tree species within and immediately adjacent to the Project Site (Teichert 2024; Attachment C). A total of 132 trees, representing 29 species, were surveyed. Most trees were found along property fence lines, ditches, ponds, and as part of residential and business landscaping. Of the trees surveyed, 62 were found to be within or immediately adjacent to the proposed limits of disturbance for the Project, and therefore have the potential to be impacted by Project activities. Of those trees, 20 were identified as native species of sufficient size (i.e., greater than 6 inches diameter at breast height [DBH]) to be regulated by the Sacramento County Tree Preservation Ordinance. These native tree species included Valley Oak (*Quercus lobata*), Gooding's black willow (*Salix goodingii*), Fremont cottonwood (*Populus fremontii*), and Northern California black walnut (*Juglans hindsii*).

5.3 ANIMALS

A number of special-status animals have been documented in the CNDDB within the nine-quad query of the Project Site, and the habitats and vegetation communities found on-site represent potentially suitable habitat for a number of other special-status animal species (Table A-1, Figure 9). A total of eleven invertebrates, one amphibian, ten birds, and two mammals were considered to have potential to occur on the Project Site. These include the blennosperma vernal pool andrenid bee (*Andrena blennospermatis*), andrenid bee (*Andrena subapasta*), Crotch's bumble bee (*Bombus crotchii*), American bumble bee (*Bombus pensylvanicus*), vernal pool fairy shrimp (*Branchinecta lynchi*), mid-valley fairy shrimp (*Branchinecta mesovallensis*), monarch butterfly (*Danaus plexippus*), hairy water flea (*Dumontia oregonensis*), Ricksecker's water scavenger beetle (*Hydrochara rickseckeri*), vernal pool tadpole shrimp (*Lepidurus packardi*), California linderiella (*Linderiella occidentalis*), western spadefoot toad (*Spea hammondii*), tricolored blackbird (*Agelaius tricolor*), western burrowing owl (*Athene cunicularia hypugaea*), Ferruginous hawk (*Buteo regalis*), Swainson's hawk (*Buteo swainsoni*), northern harrier (*Circus cyaneus*), white-tailed kite (*Elanus leucurus*), merlin (*Falco columbarius*), loggerhead shrike (*Lanius ludovicianus*), yellow-billed magpie (*Pica nuttallii*), pallid bat (*Antrozous pallidus*), and western red bat (*Lasiurus blossevillii*). Five species were observed during various field surveys in 2024: tricolored blackbirds (foraging), Swainson's hawk (nesting and foraging), northern harrier (foraging), white-tailed kite (foraging), and loggerhead shrike (foraging).

5.3.1 Invertebrates

Blennosperma Vernal Pool Andrenid Bee (*Andrena blennospermatis*)

The blennosperma vernal pool andrenid bee is not listed pursuant to either the federal or California ESAs; however, it is tracked by the CNDDB due to its restricted habitat. It is not a SSHCP covered species. The species is a solitary, ground-nesting bee that inhabits upland areas near vernal pools and specializes on the flowers in the *Blennosperma* genus (yellow carpet) (Leong, et al. 1995). Presence of this bee is reported in scattered locations where *Blennosperma* is found, along the edges of the Central Valley in Yolo, Solano, El Dorado, Sacramento and Tehama Counties, as well as near the base of the Coast Ranges in Contra Costa, Lake and Sonoma Counties (CNDDB 2024). The female bee collects and provisions *Blennosperma* pollen into ground nests, forming it into a ball onto which she lays a single egg. Bees are active through the bloom period of yellow carpet (late February through April), allowing a female to produce multiple ground nests. The next spring, adults emerge around the same time that *Blennosperma* begins blooming and the cycle repeats.

This species is known from 15 occurrences throughout California (CNDDB 2024). The nearest occurrence for this species is approximately 10 miles to the southeast of the study area (CNDDB Element Occurrence No. 08), in a vernal pool complex near Sloughhouse (CNDDB 2024). *Blennosperma* plants were not identified during the 2024 botanical survey (EcoSynthesis 2024a), nor was the blennosperma vernal pool andrenid bee found during the 2024 bumble bee survey (EcoSynthesis 2024d); therefore, the blennosperma vernal pool andrenid bee is not considered to occur at the Project Site at this time.

Andrenid Bee (*Andrena subapasta*)

Similar to other andrenid bees, *Andrena subapasta* is a solitary, ground-nesting bee that specializes on native flowers endemic to vernal pool grassland habitats. It is not listed pursuant to federal or California ESAs, nor is it a SSHCP covered species, but is tracked by the CNDDB, as very little is known about this species. Records exist from the Sacramento Valley and foothill regions in Sacramento, San Joaquin, Placer and El Dorado Counties (CNDDB 2024). It is known to forage on a variety of native forbs and has been observed to collect pollen from the flowers of sandwort (*Minuartia californica*), Johnny-tuck (*Triphysaria eriantha*) and California goldfields (*Lasthenia* spp.) (Rogers, pers. obs.; CNDDB 2024). The nearest occurrence for this species is more than 5 miles north of the study area and is from 1954 (CNDDB Element Occurrence No. 04), in what is now a developed area of Fair Oaks near the American River (CNDDB 2024).

The annual grassland habitat surrounding vernal pools within the Project Site may provide suitable habitat for *A. subapasta*, as several pools were noted to contain *Lasthenia fremontii* and *L. glaberrima* and other native flowering forb species during 2024 plant surveys (EcoSynthesis 2024a). Therefore, *A. subapasta* could occur within the study area.

Crotch's Bumble Bee (*Bombus crotchii*)

The Crotch's bumble bee is not listed pursuant to either the federal or California ESAs, nor is it a SSHCP covered species; however, it is tracked by the CNDDB as it is a candidate for state listing. The historic range of *B. crotchii* in California includes the Central Valley, coastal areas in Southern and Central California, and the San Francisco Bay area. The species is also found in western Nevada and Baja California, Mexico. This species is found in open grassland and scrub habitats (NatureServe 2024a). Associated floral species include *Antirrhinum*, *Phacelia*, *Clarkia*, *Dendromecon*, *Eschscholzia*, and *Eriogonum* species (CNDDB 2024). California Bumble Bee Atlas (CABBA) data analysis and on-site botanical surveys show that preferred floral resources for *B. crotchii* within the Project Site include the following genera or families: *Asclepias* (most preferred, but uncommon on-site), Asteraceae (especially *Centaurea* and *Cirsium* spp., abundant on-site), *Eschscholzia* (patchily common on-site), Fabaceae (especially *Vicia* spp., abundant on-site), and Lamiaceae (few on-site) (L. Richardson, personal communication, March 5, 2025, and in 2024 CABBA summary presentation online).

This species is known from 443 occurrences, many from collection specimens, ranging in dates from 1892 to 2024 (CNDDB 2024). The geographic range of the occurrences include Siskiyou and Modoc Counties in the north to San Diego County in the south, and from the coast in the west to the transmontane Basin and Range and desert habitats in the east. All occurrences are presumed extant. The closest occurrence is approximately 5.7 miles northeast of the Project Site (CNDDB Occurrence No. 290) in a dry, grazed vernal pool grassland (CNDDB 2024). A closer occurrence is recorded in the CABBA, about four miles northeast of the site in non-wetland vegetation along Morrison Creek (Bumble Bee Watch sightings 187291 and 187292).

The annual grassland habitat surrounding vernal pools within the Project Site may provide suitable habitat for *B. crotchii*, as several pools were noted to contain native flowering forb species during 2024 plant surveys (EcoSynthesis 2024a). *B. crotchii* could utilize the annual grassland for foraging, nesting, or overwintering by gynes (mated female bees) that emerge to become the queens that found all of the nest colonies the following year. The latter two uses are dependent upon suitable cavities in soil, vegetative debris, under rocks, or in anthropogenic items; all of these occur within the Project Site. However, this species was not observed during targeted bumble bee surveys in spring 2024, nor were any bumble bees observed foraging within vernal pools in that survey (EcoSynthesis 2024d). Therefore, *B. crotchii* could occur at the Project Site, but is not expected to occur at the Project Site at this time.

American Bumble Bee (*Bombus pensylvanicus*)

The American bumble bee is not listed pursuant to either the federal or California ESAs, nor is it a SSHCP covered species; however, it is tracked by the CNDDB. The historic range of *B. pensylvanicus* includes much of the United States except for Washington and Idaho, as well as southern Canada and northern Mexico. It was generally less common in the west but was formerly common in the San Francsico Bay area and the Central Valley. The species is now believed to be locally extirpated from the extreme

northeastern United States. American bumble bee is found in open grassland habitats. It nests above ground in natural grasslands and agricultural fields (NatureServe 2024b).

There are eight CNDDB occurrences for the American bumble bee within the nine-quad query of the Project Site (CNDDB 2024). All eight occurrences are from collections from unknown exact locations made prior to 1993 in what are now heavily developed areas of Sacramento County (CNDDB 2024).

The annual grassland habitat surrounding vernal pools within the Project Site may provide suitable habitat for *B. pensylvanicus*, as several pools were noted to contain native flowering forb species during 2024 plant surveys (EcoSynthesis 2024a). However, this species was not observed during targeted bumble bee surveys in spring 2024 (EcoSynthesis 2024d). Therefore, *B. pensylvanicus* could occur within the Project Site, but is not expected to occur at the Project Site at this time.

Vernal Pool Fairy Shrimp (*Branchinecta lynchi*)

The vernal pool fairy shrimp is listed as threatened under the federal ESA and is not listed under the California ESA. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. This species is usually found in vernal pools but can also occur in association with other ephemeral wetlands including alkali pools, seasonal swales, and rock outcrops. Vernal pool fairy shrimp act as filter-feeders and are present in seasonal pools during the wet stage, hatching from cysts as soon as ponding occurs. Vernal pool fairy shrimp develop rapidly into adults, reaching sexual maturity in as little as 18 days (Helm 1998); although, Rogers (pers. obs.) observed this species reaching maturity in as little as 6 days under high temperatures. Maturation and reproduction rates of vernal pool crustaceans are controlled by water temperature and can vary greatly (C. Rogers, pers. obs.). Three to six hatches may occur within a season if rainfall patterns and conditions are favorable (Gallagher 1996; Helm 1998). Cysts typically remain dormant until the next rainy season but can last in vernal pool substrate for many years. The species is an important food source for many other vernal pool animals, from aquatic beetles to toads and ducks.

The vernal pool fairy shrimp is distributed throughout the Central Valley, as well as at a small number of locations in the central Coast Ranges from Monterey County south to Santa Barbara County and in the South Coast Mountains in Riverside County (CNDDB 2024). There are 85 records for this species within the nine-quad query of the Project Site, with the nearest record existing approximately 0.4 mile to the east of the study area (CNDDB Element Occurrence No. 751) within natural vernal pools surrounded by grazed grassland (CNDDB 2024). Vernal pool fairy shrimp have also been observed from reconnaissance level special-status shrimp surveys conducted on Aspen IX by C. Rogers (EcoAnalysts 2006). Therefore, vernal pools and other seasonal wetlands within the Project Site are considered likely to support vernal pool fairy shrimp.

Mid-valley Fairy Shrimp (*Branchinecta mesovallensis*)

The mid-valley fairy shrimp is not listed pursuant to the federal or California ESAs but is tracked by the CNDDB. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. The species is closely related to the federally-listed vernal fairy shrimp and is limited to vernal pools, swales, and other ephemeral freshwater habitats in the Central Valley. Similar to the vernal pool fairy shrimp, the mid-valley fairy shrimp is a small, filter-feeding crustacean that experiences a rapid life cycle adapted to the filling and drying of its astatic seasonal wetland habitat, complete with the formation of cysts that are capable of lying dormant for many years until the return of appropriate hydrological conditions. Data from laboratory experiments indicate that the young of this species may have a higher tolerance for elevated water temperatures than other *Branchinecta* species (Helm 1998). Mid-valley fairy shrimp have been found in habitats ranging from 0.001 to 0.5 acre in size, and typically utilize habitats shorter in duration than other *Branchinecta* species (Rogers, pers. obs.).

Records of this species are scattered from Sacramento, Solano, Contra Costa, Merced, Madera and Fresno Counties. There are 23 known occurrences for this species within the nine-quad query of the Project Site. The nearest record is less than one mile to the northeast (CNDDB Element Occurrence No. 28), within a vernal pool/annual grassland complex south of Mather Regional Park and north of Jackson Road (CNDDB 2024). The vernal pools and other seasonal wetland habitats on site are considered suitable habitat for this species; thus, the species is considered likely to occur in the Project Site.

Monarch Butterfly (*Danaus plexippus*)

The monarch butterfly is not listed pursuant to either the federal or California ESAs, nor is it a SSHCP covered species; however, the California overwintering population is tracked by the CNDDB since, as of the date of this report, it is a candidate for listing as threatened under the federal ESA (USFWS 2024). The monarch butterfly is found throughout North America, from southern Canada to Central Mexico and across the United States. The western migratory population breeds west of the Rocky Mountains and migrates during the fall (October-November) to overwintering sites in Coastal California (Howard 2025, Xerces et al. 2025). The monarchs overwinter from December through February, then migrate to the northeast in the spring and summer, mating and laying eggs on milkweed plants (*Asclepias* spp.) along the way. Milkweeds provide food for monarch caterpillars and nectar for adults. Several generations of monarchs breed, mature, and migrate throughout the season, with only the final generation migrating to the overwintering site in the fall (Laws et al. 2019). There are also non-migratory populations of monarchs in several locations in both the eastern and western United States (Howard 2025).

The California Central Valley is an important part of the monarch's migratory route to and from their overwintering sites on the coast. Central Valley grasslands with milkweeds and other flowering plants provide food and mating habitat for migrating monarchs during the spring and summer (Laws et al. 2019). No overwintering habitat exists within the Project Site; however, the Project Site does contain potentially suitable breeding habitat, including occurrences of two species of milkweed (*Asclepias eriocarpa* and *A. fascicularis*), as well as a modest diversity of wildflowers as nectar sources for adults. No monarch butterflies have been observed within the Project Site. There are no CNDDB occurrences

within the nine-quad query of the Project Site nor anywhere in Sacramento County (CNDDB 2024). The closest CNDDB occurrence is approximately 45 miles to the southwest in an overwintering site west of Fairfield observed in 1976-1978 (CNDDB Element Occurrence No. 23; CNDDB 2024). However, there are multiple recorded iNaturalist observations of monarchs in Sacramento County (iNaturalist 2024). Due to the presence of milkweeds and other flowering plant species within the Project site, monarch butterflies are considered to have the potential to occur within the Project Site during the breeding season (March through September).

Hairy Water Flea (*Dumontia oregonensis*)

The hairy water flea is not listed pursuant to the federal or California ESAs, nor is it a SSHCP covered species, but is tracked by the CNDDB due to a restricted range and lack of specific habitat requirements. In general, the hairy water flea is described as a branchiopod crustacean found in vernal pools and similarly seasonally astatic wetlands. Three populations have been found in vernal pools in Jackson County, Oregon and two in California (Travis AFB, Solano County, and Sacramento County) (Santos-Flores and Dodson 2003; Van Damme & Dumont 2008; CNDDB 2024; Rogers, pers. obs.). Vernal pools within the study area may provide suitable habitat for the hairy water flea. The are two known occurrences for this species within the nine-quad query of the Project Site. The closest occurrence is located approximately one mile north of the study area (CNDDB Element Occurrence No. 01), from a vernal pool at Mather Field (CNDDB 2024). Therefore, the species is considered to have potential to occur at the Project Site.

Ricksecker's Water Scavenger Beetle (*Hydrochara ricksecker*i)

Ricksecker's water scavenger beetle is a relatively newly-discovered species and is currently not listed pursuant to the federal or California ESAs but is tracked by CNDDB because there is very little information about this species and so few populations are known. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. Ricksecker's water scavenger beetle is entirely dependent upon vernal pool-type wetland ecosystems. Records suggest that this species occupies a variety of vernal pools, seasonal wetlands, and other ephemeral habitats below 1,000 feet, but may prefer deeper, long-lasting pools (Rogers, pers. obs.). Like the majority of Hydrophilid beetles, the Ricksecker's water scavenger beetle is predatory in the larval stage and omnivorous as an adult. The larvae of this species will consume other insects, crustaceans, or amphibian larvae (Rogers, pers. obs.). Adults have been seen feeding on common frog-fruit (*Phyla nodiflora*), and dead insects and tadpoles (Rogers, pers. obs.).

This species was originally reported as endemic to the San Francisco Bay region, occurring in Alameda, Marin, San Mateo, and Sonoma Counties (Smetana, 1980). Recent collections have been made in Solano County at the Jepson Prairie Preserve, and from vernal pools in Sacramento, San Joaquin and Placer Counties (Rogers pers. obs.; CNDDB 2024). The nearest occurrence record for this species is from an aquatic habitat located within a mile north of the study area at Mather Field (CNDDB Element No. 05; CNDDB 2014). Larger vernal pools within the study area may provide suitable habitat for this species.

Therefore, Ricksecker's water scavenger beetle is considered to have potential to occur at the Project Site.

Vernal Pool Tadpole Shrimp (*Lepidurus packardi*)

The vernal pool tadpole shrimp is listed as endangered pursuant to the federal ESA and is not listed pursuant to the California ESA. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. This species inhabits a wide variety of seasonal wetlands, including vernal pools, ponded clay flats, alkaline pools, ephemeral stock ponds, and roadside ditches (Helm 1998; Rogers 2001; CNDDB 2024). Wetlands supporting vernal pool tadpole shrimp have included small (<25 square feet), clear, vegetated pools to highly turbid alkali scald pools to large (>100 acre) winter lakes (Helm 1998; Rogers 2001). These wetlands must dry out and be inundated again for their cysts to hatch. Most records are from larger, deeper vernal pools. Although maturation and reproduction rates of vernal pool crustaceans are controlled by water temperature and can vary greatly (Rogers, pers. obs.), it is estimated that the vernal pool tadpole shrimp take between 3 and 4 weeks to mature (Ahl 1991; King et. al. 1996). This species is relatively large in contrast to fairy shrimp, and covered in an oblong-shaped carapace that is molted as the crustacean grows. Due to their large size, the vernal pool tadpole shrimp is a favorite food source among a variety of animals, from frogs to herons. They are very active hunters, burrowing and swimming in pursuit of various prey items, such as rotifers, fairy shrimp, and tadpoles (C. Rogers, pers. obs.).

Vernal pool tadpole shrimp is a California Central Valley endemic species, with the majority of populations in the Sacramento Valley. There are 85 occurrences of this species within the nine-quad query of the Project Site (CNDDB 2014). There are eight occurrences within less than one mile of the Project Site (CNDDB 2024). Vernal pool tadpole shrimp have also been observed from reconnaissance level special-status shrimp surveys conducted on Aspen IX by C. Rogers (EcoAnalysts 2006). Vernal pools within the study area are considered suitable habitat for the vernal pool tadpole shrimp. Therefore, vernal pool habitats within the study area are considered to likely support this species.

California Fairy Shrimp (*Linderiella occidentalis*)

The California fairy shrimp is the most widely distributed fairy shrimp in California. The species is not currently listed pursuant to federal or California ESAs, nor is it a SSHCP covered species, but, given continued threats to habitat, is tracked by the CNDDB. This species has been found on most landforms, geologic formations, and soil types supporting vernal pools and other seasonal wetlands throughout California, but tends to occupy relatively deep pools (Eriksen & Belk 1999). Similar to the vernal pool fairy shrimp, the California fairy shrimp is a filter-feeding Branchiopod that hatches from cysts in large numbers within vernal pool habitats.

Within the Central Valley, records for California fairy shrimp come from Shasta, Tehama, Butte, Yuba, Placer, Sacramento, and San Joaquin Counties. There are 80 known occurrences for this species within the nine-quad query of the Project Site, with seven occurrences located within less than one mile from

the Project Site (CNDDB 2024). This species has also been observed from reconnaissance level special-status shrimp surveys conducted on Aspen IX by C. Rogers (EcoAnalysts 2006). Vernal pools within the study area are considered suitable habitat for the vernal pool tadpole shrimp. Therefore, vernal pool and seasonal wetland habitats within the study area are considered to likely support California fairy shrimp.

5.3.2 Amphibians

Western Spadefoot Toad (*Spea hammondii*)

The western spadefoot is not listed pursuant to the federal or California ESAs but is designated by the CDFW as a California Species of Special Concern (SSC). It is also a covered species in the SSHCP, and the SSHCP has mapped modeled aquatic and upland habitat for the species within the Project Site. The species primarily occurs in lowland habitats below 3,000 feet in elevation within or adjacent to washes, floodplains of rivers, alluvial fans, playas, and alkali flats. However, it also occurs in the foothills and mountains at a few locations at elevations up to 4,500 feet (Stebbins 1985, Morey 1988). Associated vegetative communities, where it occurs, include annual and perennial grasslands, open chaparral, pine-oak woodland, and lower montane conifer and mixed conifer forest with open areas comprised of short grasses and sandy or gravelly soil. Western spadefoot toads breed from February to May in temporary pools and drainages that form following winter or spring rains. Their eggs and larvae have been observed in a variety of temporary wetlands (CNDDB 2024). They have also been found in altered wetlands including vernal pools that have been disturbed by activities such as earthmoving, disking, intensive livestock use, and off-road vehicle use, and man-made wetlands such as artificial ponds, livestock ponds, sedimentation and flood control ponds, irrigation and roadside ditches, roadside puddles, tire ruts, and borrow pits (Fisher and Shaffer 1996, CNDDB 2024).

The species occurs in Sacramento County but is largely localized to the southeastern portion of the County (south of Rancho Murieta) (CNDDB 2024). There are nine records for this species within the nine-quad query of the Project Site (CNDDB 2024). The nearest known occurrence to the Project Site is less than one mile away near the intersection of Elder Creek Road and Bradshaw Road (CNDDB Element Occurrence No. 501; CNDDB 2024). Given potentially suitable breeding sites (e.g., vernal pools) and surrounding upland, this species is considered to have the potential to occur within the Project Site.

5.3.3 Birds

Tricolored Blackbird (*Agelaius tricolor*)

Tricolored blackbird is listed as a threatened species pursuant to the California ESA and is not listed pursuant to the federal ESA. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled foraging and nesting-foraging habitat for the species within the Project Site. The tricolored blackbird has one of the smallest ranges of any bird species in North America. Almost the entire population occurs year-round in cismontane California, with the Central Valley supporting the largest

populations. However, small numbers occur in transmontane California (i.e., deserts and Great Basin), Oregon, western Nevada, Washington, and northern Baja California. Tricolored blackbird is not migratory over most of its range but leaves northeastern California in fall and winter. Flocks become nomadic in fall seeking food. In winter flocks become more widespread from Marin to Santa Cruz counties and in the Sacramento River Delta. The breeding season for this species generally extends from mid-April into late July. Prospecting (i.e., searching for and visiting potential nest sites) typically occurs between early April and early June in the Sacramento area. Nesting colonies vary in size from about 50 nests to over 20,000 nests. Historically, tricolored blackbirds were found nesting in large to very large colonies (some estimated at over 100,000 nests) in areas with cattail or tule marsh habitats. However, with the decline in such habitats, the species now also nests in thickets of willow, Himalayan blackberry, grain fields, and tall herbs (especially species with spines or stinging hairs such as milk thistle and stinging nettle respectively). Foraging habitats are generally associated with open grassland, fields, and farmlands that provide high densities of prey species such as grasshoppers and butterfly larvae during the nesting seasons. Such foraging habitats are typically within 3 miles or less of the nesting colony.

There are 60 recorded occurrences of tricolored blackbirds within the nine-quad query of the Project Site, ten of which are within less than one mile of the Project Site (CNDDB 2024). Tricolored blackbirds were observed foraging within the Project Site in April and May 2024, apparently from a nesting colony located somewhere within 0.25 mile to the west, between the Project Site and Bradshaw Road (EcoSynthesis 2024c). Though the species is known to use the Project Site for foraging, there is no suitable nesting habitat within the Project Site (i.e., no large bodies of water with emergent vegetation or large stands of Himalayan blackberry) (Figure 3); therefore, tricolored blackbirds are not expected to use the Project Site for nesting.

Western Burrowing Owl (*Athene cunicularia hypugaea*)

Western burrowing owl is not listed pursuant to either the federal or California ESAs but is a candidate for potential listing as a protected species under CESA and is also designated as an SSC. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled nesting-wintering and wintering habitat for the species within the Project Site. Western burrowing owl is a year-round resident in annual and perennial grasslands or other vegetation communities that support sparse or non-existent tree or shrub canopies, such as rolling hills, grasslands, desert floors, and open bare ground with gullies and arroyos. They can also inhabit developed areas such as golf courses, cemeteries, roadsides within cities, airports, vacant lots in residential areas, school campuses, and fairgrounds (Haug et al. 1993). The species typically uses burrows created by fossorial mammals, most notably the California ground squirrel, but may also use man-made structures such as cement culverts; cement, asphalt, or wood debris piles; or openings beneath cement or asphalt pavement (CDFG 2012). It has even been observed wintering in boulder piles (Bumgardner pers. obs.). The breeding season extends from approximately February 1 through August 31 (CBOC 1993; CDFG 2012).

There are 40 recorded occurrences of western burrowing owl within the nine-quad query of the Project Site (CNDDB 2024). The nearest CNDDB occurrence of this species is just south of Mather Field,

approximately one mile north of the Project Site (CNDDB Element Occurrence No. 487). In addition, multiple occurrences have been recorded in eBird in Sacramento County (eBird 2024).

Targeted surveys for western burrowing owl nests were conducted in spring 2024 (EcoSynthesis 2024c). During the surveys, it was observed that the majority of the Project Site is not suitably vegetated for western burrowing owls, though some patches of suitable vegetation do exist. In addition, though multiple suitably sized ground holes were observed within the Project Site, these holes were not in close proximity to each other, nor were the soils suitably friable for western burrowing owls to excavate. In addition, there were no observations of western burrowing owl individuals or signs of occupancy during the surveys. Therefore, the surveys concluded that though there is grassland habitat and ground holes present within the Project Site, the Project Site is not suitable for western burrowing owl use. However, due to a confirmed observation of an occupied burrow in the adjacent Elder Creek Preserve in fall 2024 (EcoSynthesis 2024c), and the close proximity of known western burrowing owl populations, the species is considered to have potential to occur within the Project Site.

Ferruginous Hawk (*Buteo regalis*)

Wintering ferruginous hawk is not listed in accordance with either the federal or California ESAs but is currently tracked by the CNDDB. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. The winter distribution of ferruginous hawks includes central, western, and southwestern United States, including the Central Valley up to the Oregon border, Basin and Range, and southeastern deserts of California. The nesting distribution of the ferruginous hawk includes central and western United States and south-central Canada. Historically, a few pairs of ferruginous hawks were known to nest in extreme northeastern California in Modoc County (Grinnell and Miller, 1944), and a few pairs still nest in this region of the State (particularly the Fall River Valley of Shasta County). Ferruginous hawks begin to migrate into California in August or September and return to their breeding habitat in late February or early March. Expansive, open grassland is the primary wintering habitat of the species.

Though no ferruginous hawks have been reported within the Project Site, there are multiple winter eBird records for the species in Sacramento County (eBird 2024). There are also three recorded CNDDB occurrences within the nine-quad query of the Project Site (CNDDB 2024). The nearest occurrence is located approximately one mile north of the Project Site, within annual grassland just south of Mather Field (CNDDB Element Occurrence No. 31; CNDDB 2024). Due to the presence of wintering habitat (i.e., open grassland) within the Project, and the occurrence of nearby observations, ferruginous hawk is considered to have potential to winter at the Project Site.

Swainson's Hawk (*Buteo swainsoni*)

Swainson's hawk is listed as a threatened species pursuant to the California ESA and is not listed pursuant to the federal ESA. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled foraging habitat for the species within the Project Site. The species nests in western North

America (i.e., Canada, western United States, and Mexico) and typically winters from South America north to Mexico. However, a small population has been observed wintering in the Sacramento-San Joaquin River Delta (England et al. 1997). In California, the nesting season for Swainson's hawk ranges from mid-March to late August.

In the Central Valley, Swainson's hawks are known to nest within tall trees in a variety of wooded communities including, but not limited to, riparian, oak woodland, roadside landscape corridors, urban areas, and agricultural areas. According to a recent study by Swolgaard, et al. (2008), the most frequently used foraging habitats within the Sacramento-San Joaquin Delta region are irrigated hay fields, ruderal areas, and dryland grain fields, with the heaviest usage immediately after mowing, likely due to a temporal increase in prey availability due to the loss of vegetative cover. The least frequently used habitats were oak woodland, irrigated field crops, urban environments, and riparian and lacustrine areas. Tall trees within or just outside the boundaries of the Project Site provide potential nesting habitat and hunting perches for Swainson's hawk, and the annual grasslands provide potential foraging habitat for the species and support a large population of meadow mice. The grazed, annual grassland habitat within the Project Site is considered to be of the highest foraging habitat quality, as the vegetative cover here is maintained at relatively short levels (Swolgaard, et al. 2008).

There are 102 recorded CNDDB occurrences of Swainson's hawk within the nine-quad query of the Project Site, as well as several recorded observations on eBird in Sacramento County (CNDDB 2024; eBird 2024). The two closest CNDDB occurrences are both within 2 miles of the Project Site (CNDDB Occurrence No. 2204 and 2244; CNDDB 2024). Swainson's hawk was observed nesting immediately adjacent to the Project Site in 2021 in a tree north of Elder Creek Road (Bumgardner 2021). In addition, foraging Swainson's hawks have been observed repeatedly throughout 2024 within the Project Site. There are also observations of possible nesting in 2023 and successful nesting and fledging of at least two young confirmed to have occurred in a tree just outside the Project boundary on the north side of Elder Creek Road in 2024 (EcoSynthesis 2024c). Therefore, Swainson hawk is considered to have potential to continue foraging and nesting within and immediately adjacent to the Project Site.

Northern Harrier (*Circus hudsonius*)

Northern harrier is not listed in accordance with either the federal or California ESAs but is designated as an SSC (when nesting). It is also a covered species in the SSHCP, and the SSHCP has mapped modeled foraging and nesting-foraging habitat for the species within the Project Site. This species occurs from sea level to the mid-elevations of the Sierra Nevada where there is grassland, open rangeland, desert flats, or fresh or saltwater marsh. The species nests from April to September with peak activity occurring June through July. Nests are typically located on the ground in grassland, weedy fields, grain fields, or emergent marsh.

There are no recorded CNDDB occurrences of northern harrier within the nine-quad query of the Project Site (CNDDB 2024). The closest CNDDB occurrence is approximately 20 miles to the southwest of the Project Site in fallow agricultural land, marsh, riparian trees, and shrub-scrub habitat (CNDDB 2024).

There are also numerous recorded eBird observations in Sacramento County (eBird 2024). Northern harriers were observed nesting in a grain field approximately one mile northwest of the Project Site, just north of Morrison Creek (Baba and Bumgardner, pers. obs. 2015). Northern harriers have also been observed foraging within the Project Site in 2020, 2023 and 2024 but have not been observed nesting (Bumgardner 2020; EcoSynthesis 2024c). Consequently, the species is considered to have potential to nest within the Project Site.

White-tailed Kite (*Elanus leucurus*)

White-tailed kite is not listed pursuant to either the federal or California ESAs but is designated as Fully Protected by the California Fish and Game Code. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled foraging habitat for the species within the Project Site. The species is a common resident in the Central Valley as well as most of the California coast (Dunk 1995). In northern California, white-tailed kites typically nest from March through June. Nesting occurs in large, dense-topped trees within riparian, oak woodland, savannah, and agricultural communities that are near suitable foraging areas (i.e., open grassland, oak savannah, emergent wetlands, and some row and field crops).

There are 190 CNDDB occurrences within the nine-quad query of the Project Site, with one occurrence recorded within the Project Site along Elder Creek (CNDDB Occurrence No. 27; CNDDB 2024). This occurrence is described as a nest located in a tree between pastures and fields. In addition, there are several recorded eBird observations of the species within the immediate vicinity of the Project Site (eBird 2024). White-tailed kites are frequently observed foraging in the Project Area. A suitable nest tree containing at least two raptor stick nests is present in the Project Site at the northwest corner of the Vineyard wastewater treatment facility. A pair of white-tailed kites were observed in this tree in 2023, with one of them remaining stationary within one of the nests for extended periods of time. This was tentatively interpreted as nesting behavior; however, later in the same year the tree was occupied only by Swainson's hawks (EcoSynthesis 2024c). Therefore, white-tailed kite is considered to have potential to continue foraging or nesting within or immediately adjacent to the Project Site.

Merlin (*Falco columbarius*)

Merlin is not listed pursuant to the federal or California ESAs, but the wintering distribution of this species is currently tracked by the CNDDB. It is not a covered species in the SSHCP. The species breeds in Canada and Alaska and occurs in California as an uncommon migrant and winter resident (August through April). Suitable foraging habitat includes a wide range of open environments including seacoast estuaries, desert, open grasslands, and semi-open woodlands within which it can hunt from low perches. It feeds primarily on small birds. Consequently, the irrigated pastures and annual grasslands within the Project Site provide potential foraging habitat for the species.

There are six recorded CNDDB occurrences of merlin within the nine-quad query of the Project Site, with the majority (and closest) approximately nine miles to the southwest of the Project Site in the Sacramento Regional County Sanitation District Bufferlands, described as grasslands with vernal pools,

seasonal wetlands, and riparian forest (CNDDB Occurrence No. 13, 19, 20, 21 and 22; CNDDB 2024). The other nearby CNDDB occurrence is from Lake Natoma in the Folsom Lake State Recreation Area approximately 12 miles to the northeast of the Project Site (CNDDB Occurrence No. 15; CNDDB 2024). There are also multiple recorded eBird observations of merlin wintering in Sacramento County, including one within 2 miles of the Project Site (eBird 2024). Merlin were observed within the Project Site in 2020 (Bumgardner 2020). Therefore, merlin is considered to have a potential for wintering within the Project Site.

Loggerhead Shrike (*Lanius ludovicianus*)

The loggerhead shrike is not listed pursuant to either the federal or California ESAs, but is designated as an SSC (when nesting). It is also a covered species in the SSHCP, and the SSHCP has mapped modeled foraging and nesting-foraging habitat for the species within the Project Site.

The species generally occurs in a variety of open grassland, oak savannah, shrubland, and other similar habitats where it feeds primarily on large insects (e.g., grasshoppers). However, the species may also occasionally take small reptiles, birds, and mammals. It nests in small trees and shrubs in open country with short vegetation such as pastures, old orchards, mowed roadsides, cemeteries, golf courses, agricultural fields, riparian areas, and open woodlands (Yosef 1996). It has even been observed nesting in cattails (Bumgardner pers. obs.). Nesting typically occurs during March to June with young becoming independent during July or August. The nest is generally well-concealed on a stable branch in a densely-foliaged shrub or tree. Nest territories have been found to range in size from 11 to 40 acres (Miller 1931). In areas of year-round residence (such as much of lowland California) members of a pair are known to defend adjoining territories during the non-breeding season and then defend a single nesting territory comprised of the adjoining winter territories during the breeding season (Lefranc 1997).

There are no CNDDB occurrences within the nine-quad query of the Project Site nor anywhere in Sacramento County (CNDDB 2024). The nearest CNDDB occurrence of this species is approximately 40 miles to the southeast in Contra Costa County (CNDDB Occurrence No. 3; CNDDB 2024). However, loggerhead shrike has been observed nesting in Sacramento County (Bumgardner pers. obs.), and there are multiple recorded eBird observations of loggerhead shrike during peak nesting season in Sacramento County, with two being within one mile of the Project Site (eBird 2024). In addition, loggerhead shrikes were observed foraging within the Project Site in 2024 (EcoSynthesis 2024c). Existing landscape trees, as well as riparian scrub habitat along Elder Creek, may provide suitable nesting habitat within the Project Site, especially considering that existing annual grassland within the Project Site provides ideal foraging conditions. Therefore, loggerhead shrike is considered to have potential to continue foraging and possibly nest within or immediately adjacent to the Project Site.

Yellow-Billed Magpie (*Pica nuttalli*)

Yellow-billed magpie is not listed in accordance with either the federal or California ESAs, nor is it a SSHCP covered species, but is currently tracked by the CNDDB (when nesting or communally roosting).

This endemic species is a year-long resident of the Central Valley and Coast Ranges from San Francisco Bay to Santa Barbara County. It builds large, bulky nests in trees in a variety of open woodland habitats, typically near grasslands, pastures, or croplands. Nesting occurs from February through July (CDFG 2005). It has shown to be particularly susceptible to West Nile Virus, which may have been the cause of death for thousands of individuals during the last decade.

There are no recorded CNDDB occurrences of yellow-billed magpie anywhere in the state (CNDDB 2024). However, there are multiple recorded eBird and iNaturalist observations of yellow-billed magpie in Sacramento County, including several within one mile of the Project Site (eBird 2024; iNaturalist 2024). Several yellow-billed magpies were observed foraging in the understory of landscape trees along Elder Creek Road in 2014 (Baba pers. obs.); however, they were not observed during bird surveys in 2024 (EcoSynthesis 2024c). Due to the presence of suitable foraging and nesting habitat within and immediately adjacent to the Project Site, yellow-billed magpie is considered to have the potential to occur within the Project Site.

OTHER RAPTOR SPECIES

All raptors, including those species that are not considered as special-status species, are protected under Section 3503.5 of the California Fish and Game Code, which provides protection to the nests and eggs of such species as well as individuals. Raptor species that are not considered "special-status species" by CDFW but that occur in the vicinity of the Project Site include American kestrel (*Falco sparverius*), red-tailed hawk (*Buteo jamaicensis*), and red-shouldered hawk (*Buteo lineatus*) in the order Falconiformes, and great-horned owl (*Bubo virginianus*) and barn owl (*Tyto alba*) in the order Strigiformes (Bumgardner pers. obs.). It should be noted that American kestrel and barn owl are cavity or crevice nesters, whereas each of the other raptor species build stick nests. Nonetheless, suitable nesting locations for each of these species are limited to the larger trees in and immediately adjacent to the Project Site (typically with DBH larger than 15 inches).

Red-tailed hawk was observed in 2021 in a tree in the Existing Mine immediately adjacent to the Project Site (Bumgardner 2021). American kestrel was observed nesting in 2021 in a building north of Elder Creek Road immediately adjacent to the Project Site (Bumgardner 2021). American kestrel was also observed during the 2024 bird surveys (EcoSynthesis 2024c). Consequently, given the presence of suitable nesting habitat within and immediately adjacent to the Project Site and known occurrences of nesting raptors within the site vicinity, these species are considered to have potential for nesting at the Project Site.

5.3.4 Mammals

Pallid Bat (*Antrozous pallidus*)

The pallid bat is not listed pursuant to either the federal or California ESAs but is designated as an SSC. It is not a SSHCP covered species. Pallid bat is common year-round throughout the entire state of

California except for extreme high elevations. It occurs in a wide variety of habitats including deserts, grasslands, shrublands, woodlands, and forests with rocky areas for roosting. It forages over open ground and roosts in crevices and cracks in caves, trees, and man-made structures. This species is very sensitive to disturbance of roost sites.

There is one CNDDB occurrence of pallid bat within the nine-quad query of the Project Site, approximately 14 miles to the northeast of the Project Site from a female specimen collected in 1941 (CNDDB Occurrence No. 233; CNDDB 2024). There are two recorded research-grade iNaturalist observations of pallid bat in Sacramento County, both of which are also located approximately 14 miles northeast of the Project Site near Folsom Lake (iNaturalist 2024). The bat survey conducted in 2024 found potential maternity roosting habitat for pallid bat immediately outside of the Aspen IX Project boundary in the form of exfoliated bark, split tree trunks and limbs, and man-made structures (Sequoia 2024). Potential foraging habitat within the Project Site includes open grassland habitat. Therefore, due to the presence of both potential foraging and roosting habitat within and immediately adjacent to the Project Site, pallid bat is considered to have the potential to occur within the Project Site.

Western Red Bat (*Lasiurus blossevillii*)

The western red bat is not listed pursuant to either the federal or California ESAs but is designated as an SSC. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site.

The western red bat is common year-round throughout most of cismontane California west of the Sierra Nevada crest to the coast and southwestern deserts, ranging from Shasta County in the north to the Mexican border in the south. This species prefers edge or mosaic habitats such as streams, fields, orchards, and urban areas that have open areas for foraging and trees for roosting. Western red bats are a foliage-roosting species, roosting primarily in leafy foliage of trees and large shrubs.

There are no CNDDB occurrences of western red bat within the nine-quad query of the Project Site; however, there are four CNDDB occurrences within Sacramento County (CNDDB 2024). All four occurrences are in the Sacramento-San Joaquin River Delta area of southwestern Sacramento County approximately 25 miles southwest of the Project Site (CNDDB 2024). There is one recorded research-grade iNaturalist observation of western red bat in urban City of Sacramento approximately 10 miles west of the Project Site (iNaturalist 2024). The bat survey conducted in 2024 found potentially suitable maternity roosting habitat for western red bat immediately outside the Aspen IX Project boundary in the form of large trees and shrubs with suitable foliage (Sequoia 2024). Potential foraging habitat within the Project Site includes open grassland habitat. Therefore, due to the presence of both potential foraging and roosting habitat within and immediately adjacent to the Project Site, western red bat is considered to have the potential to occur within the Project Site.

American Badger (*Taxidea taxus*)

The American badger is not listed pursuant to either the federal or California ESAs but is tracked by the CNDDB. It is also a covered species in the SSHCP, and the SSHCP has mapped modeled habitat for the species within the Project Site. The American badger is found throughout most of North America except for the eastern and southeastern United States, extreme north of Canada, and extreme south of Mexico. In California, the American badger is uncommon but can be found year-round throughout the entire state except for the extreme northwest coast. This species prefers expansive open areas of grasslands or shrublands with minimal tree cover. American badgers dig burrows and require areas with a sufficiently friable soil composition that is dry and often sandy. American badgers are carnivorous and eat a variety of small animals. This species in unlikely to occur in proximity to human activity or in areas that have suitable ground cover and soil types but are fragmented due to development (Juncosa, pers. obs.).

There are five CNDDB occurrences of American badger within the nine-quad query of the Project Site. The closest CNDDB occurrence is less than one mile north of the Project Site from 1991 in what is now a mining operation (CNDDB Occurrence No. 73; CNDDB 2024). Four of the nearby occurrences are from mid- to late-20th century prior to the increase in development of the Project vicinity and subsequent fragmentation of suitable open grassland habitat. Due to the presence of human activities surrounding the Project Site, and the property's relative isolation from nearby open grasslands, American badger is considered to be unlikely to occur within the Project Site.

6.0 POTENTIAL IMPACTS TO BIOLOGICAL RESOURCES AND RECOMMENDED MITIGATION MEASURES

This section of the document addresses changes in the existing environmental baseline for biological resources (i.e., impacts) that may result from implementation of the Project and may be considered significant consistent with Section 15065 and Appendix G of the CEQA Guidelines. Figure 10 shows the various habitat communities present within the Project Site, as well as the proposed boundaries of the mining and limits of disturbance. Figure 5 illustrates existing features upon completion of reclamation. Mitigation measures are suggested to avoid, minimize, or otherwise compensate for the identified impacts where such measures are available.

6.1 WETLANDS AND WATERS OF THE U.S.

A total of 16.1993 acres of wetlands and waters, including seasonal wetland, vernal pool, pond, and seasonal tributary habitats, have been mapped within the Project Site (Table 2, Figure 3). The Project's proposed impacts to wetlands and waters are set forth below in Table 2 and in Figure 10. Note that Elder Creek will be avoided.

TABLE 2. WETLAND IMPACTS SUMMARY

Wetland Type	Total Acres Present	Total Acres Impacted
Seasonal Wetlands	3.1225	3.1225
Vernal Pools	12.9904	12.9904
Seasonal Pond (<5 percent vegetative cover)	0.0443	0.0443
TOTAL	**16.1993**	**16.1572**

As mentioned in Section 4.3, a wetland delineation was prepared by EcoSynthesis and submitted to USACE; however, as of the date of this report, this delineation has not been verified by USACE. As such, the jurisdictional status of these wetlands and waters (e.g., Waters of the U.S. vs. Waters of the State) is currently unknown. However, the Project will impact wetlands and waters, at least some of which are likely to be protected under the Section 404 of the CWA. As such, Teichert will be required to obtain a permit from the USACE authorizing impacts to wetlands and waters. Because the Project Site is located within the SSHCP area, it is anticipated that coverage would be obtained under USACE's "Letter of Permission Procedure for Covered Activities Under the South Sacramento Habitat Conservation Plan With Less Than Significant Impacts on the Human Environment" (SSHCP LOP Procedure). The SSHCP LOP Procedure requires compliance with the SSHCP's Avoidance and Minimization Measures (AMMs) and allows applicants to mitigate for impacts to waters and wetlands through the payment of SSHCP fees, a portion of which is paid into the USACE- and RWQCB-approved South Sacramento In-Lieu Fee Program. Teichert would also need to obtain any required permits from RWQCB for impacts to waters of the State subject to the RWQCB jurisdiction. Additionally, these wetlands and waters may be regulated by the CDFW.

Mitigation Measures

Implementation of the following mitigation measures are recommended to reduce impacts to protected Wetland and Waters from the proposed Project:

- Before conducting any grading, clearing, or excavation activity associated with the Project, Teichert shall obtain all necessary permits under Sections 401 and 404 of the CWA or the State's Porter-Cologne Act.
- Teichert will implement all required AMMs in the SSHCP and will pay all required SSHCP/In-Lieu Fees.
- A Streambed Alteration Agreement will be obtained from CDFW, pursuant to Section 1602 of the CDFW Code, prior to commencing any activities that would affect the bed, bank, or associated riparian vegetation of Elder Creek. Teichert will coordinate with CDFW in developing appropriate mitigation and will abide by the conditions of any executed permits.

6.2 PROTECTED TREES AND TREE CANOPY

The Aspen VIII & IX Use Permit Amendment Arborist Report (Teichert 2024; Attachment C) identified a total of 62 trees, representing 0.39 acre of tree canopy, within and immediately adjacent to the Project Site. Of the trees potentially impacted, 20 are native trees protected by the Sacramento County Tree Preservation Ordinance, with a cumulative DBH of 313.1 inches. In addition, a total of 0.39 acre of protected native and non-native tree canopy may be impacted by the Project.

Mitigation Measures

Implementation of the following mitigation measures is recommended to reduce project-related impacts to protected trees and tree canopy:

- Teichert will comply with the Sacramento Tree Preservation Ordinance and Sacramento General Plan Policy CO-139 and CO-146 by replacing impacted protected trees on an inch-by-inch basis or by paying contributions to the Greenprint fund, a local mitigation fund, in an amount proportional to the tree canopy removed due to the Project.

6.3 SPECIAL-STATUS ANIMAL SPECIES

Implementation of the proposed Project would result in impacts to a number of special-status animal species. A discussion of those species is provided below.

6.3.1 Vernal Pool Invertebrates

Teichert assumes that all suitable habitat (i.e., seasonal wetlands, vernal pools, pond) for special-status vernal pool invertebrates within the Project Site is occupied by vernal pool invertebrates. Table 3 below summarizes the total acreage of habitat that the Project would impact.

TABLE 3. IMPACTS TO SPECIAL-STATUS VERNAL POOL INVERTEBRATES

Wetland Type	Total Acres Present	Total Acres Impacted
Seasonal Wetlands	3.1225	3.1225
Vernal Pools	12.9904	12.9904
Seasonal Pond (<5 percent vegetative cover)	0.0443	0.0443
TOTAL	**16.1572**	**16.1572**

Implementation of the proposed Project would result in the loss of approximately 16.1574 acres of special-status vernal pool invertebrate habitat, including habitat for the vernal pool fairy shrimp, vernal pool tadpole shrimp, mid-valley fairy shrimp, hairy water flea, Ricksecker's water scavenger beetle, vernal pool tadpole shrimp, and California fairy shrimp. The vernal pool tadpole shrimp, vernal pool fairy shrimp, mid-valley fairy shrimp, and Ricksecker's water scavenger beetle are Covered Species under the SSHCP.

Mitigation Measures

Implementation of the following mitigation measures are recommended to reduce impacts to special-status vernal pool invertebrates from the proposed Project:

- Before conducting any grading, clearing, or excavation activity associated with the Project, Teichert shall obtain all necessary permits under Sections 401 and 404 of the CWA or the State's Porter-Cologne Act.
- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement all applicable SSHCP Avoidance and Minimization Measures.

6.3.2. Crotch's Bumble Bee

Crotch's bumble bee was designated as a candidate for listing under the CESA in 2019, but no decision on listing has been published. If, at the time of Project implementation, the species is not a CESA candidate or CESA listed, and it does not fall into any of the other special-status categories defined in Section 2.0, then it would not qualify for protections under CEQA and no mitigation would be necessary.

As discussed in Section 5.3.1, Crotch's bumble bee was not observed during targeted bumble bee surveys in spring of 2024. However, the Project Site supports 220.8 acres of annual grassland habitat that may be suitable for Crotch's bumble bee. The Project would result in the loss of all 220.8 acres of such habitat. Potential impacts to Crotch's bumble bee include direct or indirect disturbance to or loss of foraging, nesting, or overwintering habitat. In addition, though unlikely, an unknown number of individuals could be disturbed, killed, or injured during Project activities.

Because Crotch's bumble bee is a candidate species and the biology of the entire life cycle of bumble bees is not fully known, appropriate mitigation measures are still being developed and refined. The following measures have been developed based on CDFW's *Survey Considerations for California*

Endangered Species Act (CESA) Candidate Bumble Bee Species (CDFW 2023), published literature on bumble bee wintering in California, and unpublished information from the Xerces Society for the California Bumble Bee Atlas (CABBA). If at a later date a different mitigation measure is determined to be more appropriate, such measure can be submitted to the County and/or CDFW, as applicable, at that time for review and approval.

Mitigation Measures

The following mitigation measures are recommended to reduce the above potential impact to Crotch's bumble bee:

- Initial ground-disturbing activities shall take place between September 1 and March 31 (i.e., outside the colony active period), if feasible, to minimize impacts on Crotch's bumble bee nests. If work occurs during this period, no additional measures are required.
- If completing all initial ground-disturbing work between September 1 and March 31 is not feasible, then a qualified biologist with 10 or more years of experience conducting biological resource surveys within California, and with field training in bumble bee identification, shall conduct pre-construction surveys for Crotch's bumble bees in the area proposed for impact no more than 14 days prior to the commencement of construction activities. Surveys shall be conducted between April 1 and July 31. The survey (or at least one survey if more than one are carried out) shall occur during that time period but also while at least one of the five most preferred floral genera is abundantly in flower on site (i.e., *Asclepias, Salvia, Lupinus, Vicia,* and *Acmispon* spp.).
    - The survey shall occur during the period from one hour after sunrise to two hours before sunset, with temperatures between 65° and 90° Fahrenheit, and with sustained wind below 8 mph. Surveying shall be suspended during rain and for one hour afterward. If the survey timing makes adherence to those conditions infeasible, survey work shall occur on days within a one-week period that are closest to the temperature and wind ranges stated above. Survey reporting shall include observations of other bumble bees as confirmation that conditions were suitable for activity.
    - The survey duration shall be commensurate with the extent of floral resources (which represent foraging habitat) present within the area proposed for impact and the level of effort shall be based on the metric of a minimum of one person-hour of surveying for active bees per three acres of suitable floral resources/foraging habitat (not including handling or note-taking time). Suitable habitat is defined as flowering patches of at least 5 percent relative cover of any of the five genera noted above plus *Centaurea, Cirsium,* and *Eschscholzia* spp. In addition, survey efforts shall include the meandering transects that are traversed in finding or walking to known patches of suitable habitat.
    - Diagnostic methodology may include either (1) non-lethal capture and chilling, with diagnostic photography of all bee species and counts of their numbers. Methods requiring use of sterilized vials, limitations on handling periods before and during chilling, and site of release shall follow USFWS (2019) as modified by CABBA training and

the CABBA Participant Handbook for California species. Capture-based survey requires CDFW scientific collecting permit (and memorandum of understanding for listed species); or (2) photographic survey of active bees. The equivalent of a 300-mm lens (DX format) is typically necessary for this purpose. Survey documentation shall include images of all *Bombus* species that are observed and counts of each.
    - If Crotch's bumble bees are observed, the biologist shall attempt to locate nests by tracking bee movements, looking for concentrated Crotch's bumble bee activity near the ground surface or objects that have suitable nest cavities, or (under windless conditions) listening for humming that indicates a concentration of individuals.
    - Survey documentation shall include dates, times, and weather conditions of survey activity, a map of survey tracks, description of any suitable foraging habitat and other floral resources present, a description of observed bumble bee activity, a list and counts of bumble bee species observed, and a map of locations (within 5 m accuracy or less) of any nests that are found. The report shall be submitted to the County prior to the commencement of construction activities.
- If no bumble bees are located during the pre-construction survey or the bumble bees located are definitively identified as not special-status species, then no further mitigation or coordination with the County and/or CDFW is required.
- If any sign(s) of a Crotch's bumble bee nest or a nest of a species that could not be definitively identified as not being a special-status bumble bee are observed, then construction shall not commence until either 1) the bumble bees present are positively identified as not special-status by an experienced bumble bee taxonomist, or 2) the completion of coordination with CDFW to identify appropriate mitigation measures, which may include, but not be limited to, waiting until the colony active season ends, establishment of nest buffers, or obtaining an Incidental Take Permit (ITP) from CDFW.
- If, after coordination with CDFW, impacts to Crotch's bumble bee cannot be avoided, Teichert shall obtain an ITP from CDFW prior to initiation of ground disturbing activities, and Teichert shall implement all conditions identified in the ITP. Mitigation required by the ITP may include translocating nesting substrate in accordance with the latest scientific research to another suitable location that supports floral resources similar or superior to the impact area, enhancing floral resources on areas of the Project site that will remain appropriate habitat, and/or other measures specified by the ITP.
- In addition to these measures, mitigation for the loss of Swainson's hawk foraging habitat (see Section 6.3.8) would compensate for the loss of annual grassland that may be utilized by Crotch's bumble bee.

6.3.3 Monarch Butterfly

The monarch butterfly is a candidate for listing as threatened under the Federal ESA. Candidate species are not protected by the take prohibitions in Section 9 of the FESA. However, CEQA requires that agencies consider the potential impacts of a project on a candidate species. If, at the time of Project implementation, monarch butterfly is not an FESA candidate or FESA listed, and it does not fall into any

of the other “special-status” categories defined in Section 2.0, then it would not qualify for protections under CEQA and no mitigation is necessary.

As discussed in Section 5.3.1, monarch butterfly has not been observed within the Project Site. However, the Project Site supports 220.8 acres of annual grassland habitat that may be suitable for monarch butterfly. The Project would result in the loss of all 220.8 acres of such habitat. Potential impacts to monarch butterfly include direct or indirect disturbance to or loss of mating habitat and nectar sources, particularly milkweed plants and other associated flowering plants within the annual grassland. In addition, though unlikely, an unknown number of eggs, larvae (caterpillars), or chrysalises could be disturbed, killed, or injured during Project activities.

Because monarch butterfly is a proposed threatened species, appropriate mitigation measures are still being developed and refined for this species. Teichert has developed the following measure based on current literature and research. If at a later date a different mitigation measure is determined to be more appropriate, such measure can be submitted to the County and USFWS at that time for review and approval. It should be noted that USFWS staff have stated that they will not formally consult on species proposed for listing or designated as candidates, so until such time as the monarch butterfly is formally listed, USFWS may not respond to communications regarding this species.

Mitigation Measures

The following mitigation measures are recommended to reduce the above potential impact to monarch butterfly:

- At Teichert's sole option, all milkweed plants within the impact area may be located and transplanted, during the period from October 1 through March 15, to a suitable receptor site such as the nearby Elder Creek Preserve. If transplantation is completed prior to arrival of monarchs in the Sacramento Valley breeding region, then no pre- or during-construction mitigation would be required. Transplants shall be monitored for survivorship, and container stock or field-seeded plants shall be planted to achieve a net success rate of 70 percent of the number of original transplants at the end of a three-year monitoring period.
- If the transplantation option is not selected and vegetation removal will occur within the annual grassland during the time when milkweed plants may host monarch eggs or caterpillars (approximately mid-March through late September), a pre-construction survey shall be conducted by a qualified biologist no earlier than 10 days prior to vegetation removal within the proposed impact area plus a 50-foot buffer in accessible areas (cumulatively the “Survey Area”). The biologist shall comprehensively search the Survey Area for milkweed plants, and all milkweed plants found shall be surveyed for monarch eggs, larvae (caterpillars), and chrysalises. At Teichert's sole option, survey and mapping of milkweed occurrences may be carried out earlier, in which case the pre-construction survey would be focused on the known occurrences. Additionally, other plants immediately adjacent to milkweed plants shall also be searched for

chrysalises. If no eggs, caterpillars, or chrysalises are detected, no additional mitigation measures are necessary.

- If eggs, caterpillars or chrysalises are found, the plants shall be avoided with a 50-foot buffer until metamorphosis is completed and adult butterflies emerge and voluntarily leave the host plant. If the eggs, larvae, or chrysalises cannot be avoided, all eggs, larvae, and chrysalises, including the portion of the plant to which they are attached, will be translocated to an alternative location. That location must be a minimum of 50 feet outside of the impact area and contain a similarly sized or larger population of larval host plants. The portions of the plants supporting eggs or chrysalises shall be tied to the live stem of the receptor plant while caterpillars will be placed directly on a stem or leaf of a larval host plant. Should the species be listed under FESA in the future, coordination with USFWS shall be conducted prior to translocation.

6.3.4 Western Spadefoot Toad

Western spadefoot toad is a Covered Species under the SSHCP. There are a total of 16.1993 acres of aquatic habitat on the Project Site suitable for western spadefoot toad habitat. The Project would result in the permanent loss of 16.1572 acres of these aquatic sites. Thus, the Project would reduce the reproductive potential and recruitment from these aquatic sites for western spadefoot toad (if utilized by the species). The Project Site also supports 220.8 acres of annual grassland that could be occupied by western spadefoot toad during the non-breeding season. The Project would result in the loss of all 220.8 acres of such habitat. Lastly, an unknown number of western spadefoots could be disturbed, killed, or injured during earth-moving activities associated with the Project. The loss of individuals would also reduce the reproductive potential and recruitment of the species in the Project vicinity.

Mitigation Measures

Implementation of the following mitigation measures are recommended to reduce impacts from the proposed Project for western spadefoot toad:

- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement all applicable SSHCP Avoidance and Minimization Measures, including the following specific measures for western spadefoot toad:

WS-1 (Western Spadefoot Work Window): Ground-disturbing Covered Activities within western spadefoot modeled habitat (Figure 3-17) will occur outside the breeding and dispersal season (after May 15 and before October 15), to the maximum extent practicable.

WS-2 (Western Spadefoot Exclusion Fencing): If Covered Activities must be implemented in modeled habitat (Figure 3-17) after October 15 and before May 15, exclusion fencing will be installed around the project footprint before October 15, and the project site must be monitored by an approved biologist following rain events. Temporary high-visibility construction fencing will be installed along the edge of work areas, and silt fencing will be installed immediately behind the

temporary high-visibility construction fencing to exclude western spadefoot from entering the construction area. Fencing will remain in place until all construction activities within the construction area are completed. No project activities will occur outside the delineated project footprint. If a western spadefoot is encountered, refer to WS-6, below.

WS-3 (Western Spadefoot Monitoring): If Covered Activities must be implemented in modeled habitat (Figure 3-17) in the breeding and dispersal season (after October 15 and before May 15), an approved biologist experienced with western spadefoot identification and behavior will monitor the project site, including the integrity of any exclusion fencing. The approved biologist will be on site daily while construction-related activities are taking place, and will inspect the project site daily for western spadefoot prior to construction activities. The approved biologist will also train construction personnel on the required avoidance procedures, exclusion fencing, and protocols in the event that a western spadefoot enters an active construction zone (i.e., outside the buffer zone). If a western spadefoot is encountered, refer to WS-6, below.

WS-4 (Avoid Western Spadefoot Entrapment): If a Covered Activity occurs in western spadefoot modeled habitat (Figure 3-17), all excavated steep-walled holes and trenches more than 6 inches deep will be covered with plywood (or similar material) or provided with one or more escape ramps constructed of earth fill or wooden planks at the end of each work day or 30 minutes prior to sunset, whichever occurs first. All steep-walled holes and trenches will be inspected by the approved biologist each morning to ensure that no wildlife has become entrapped. All construction pipes, culverts, similar structures, construction equipment, and construction debris left overnight within western spadefoot modeled habitat will be inspected for western spadefoot by the approved biologist prior to being moved. If a western spadefoot is encountered, refer to WS-6, below.

WS-5 (Erosion Control Materials in Western Spadefoot Habitat): If erosion control (BMP-2) is implemented within western spadefoot modeled habitat (Figure 3-17), non-entangling erosion control material will be used to reduce the potential for entrapment. Tightly woven fiber netting (mesh size less than 0.25 inch) or similar material will be used to ensure that western spadefoots are not trapped (no monofilament). Coconut coir matting and fiber rolls containing burlap are examples of acceptable erosion control materials.

WS-6 (Western Spadefoot Encounter Protocol): If Covered Activities must be implemented in modeled habitat (Figure 3-17) during the breeding and dispersal season (after October 15 and before May 15), and a western spadefoot is encountered during construction activities, the approved biologist will notify the Wildlife Agencies immediately. Construction activities will be suspended in a 100-foot radius of the animal until the animal leaves the project site on its own volition. If necessary, the approved biologist will notify the Wildlife Agencies to determine the appropriate procedures related to relocation. If the animal is handled, a report will be submitted, including date(s), location(s), habitat description, and any corrective measures taken to protect the western spadefoot within 1 business day to the Wildlife Agencies. The biologist will report any

take of listed species to the U.S. Fish and Wildlife Service and California Department of Fish and Wildlife immediately. Any worker who inadvertently injures or kills a western spadefoot or who finds dead, injured, or entrapped western spadefoot(s) must immediately report the incident to the approved biologist.

6.3.5 Loggerhead Shrike, Northern Harrier, White-Tailed Kite, and Common Raptors

Loggerhead shrike, northern harrier, and white-tailed kite are Covered Raptor Species protected under the SSHCP and are known to occur within or immediately adjacent to the Project Site. In addition, common raptors (i.e., species not designated as special-status species) that are known to nest near the Project Site include red-tailed hawk, red-shouldered hawk, American kestrel, great-horned owl, and barn owl. Most of these species forage in open grassland habitats and nest in larger tree stands in the Project vicinity, but some individuals (especially red-tailed hawk and great-horned owl) may occasionally nest in "stand alone" trees.

Potential impacts to these species include direct or indirect disturbance to or loss of foraging or nesting habitat. The Project Site supports 220.8 acres of annual grassland that is potential foraging habitat for these species. Implementation of the Project would result in the loss of all 220.8 acres of such habitat. Implementation of the Project may also directly or indirectly impact trees and large shrubs within or immediately adjacent to the Project Site that may be potential nesting habitat for these species. Consequently, should tree removal, as proposed for the Project, occur during the nesting season of these species (i.e., mid-March to late August), there is the potential for the loss of eggs or juveniles during the removal activities. In addition, nesting pairs located within up to 0.25 miles of the Project Site could be adversely affected during mining-related vegetation removal or earthmoving associated with the Project. Such adverse effects are typically associated with noise and visual changes that distract individuals from being properly attentive to eggs or juveniles. As such, there is some potential for nesting pairs to be sufficiently disturbed that eggs or juveniles are abandoned or otherwise lost.

<u>Mitigation Measures</u>

The following mitigation measures are recommended to reduce the above potential impacts to protected raptor species, including loggerhead shrike, northern harrier, and white-tailed kite. Suggested mitigation for impacts to ferruginous hawk, Swainson's hawk, or western burrowing owl is discussed in a separate section.

- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement all applicable SSHCP Avoidance and Minimization Measures, including the following specific measures for protected raptors such as loggerhead shrike, northern harrier and white-tailed kite:

RAPTOR-1 (Raptor Surveys): If modeled habitat for a covered raptor species (Figures 3-20, 3-23, 3-24, or 3-28) is present within a Covered Activity's project footprint or within 0.25 mile of a project footprint, then an approved biologist will conduct a field investigation to determine if existing or

potential nesting sites are present within the project footprint and adjacent areas within 0.25 mile of the project footprint. Adjacent parcels under different land ownership will be surveyed only if access is granted or if the parcels are visible from authorized areas. The Third-Party Project Proponent will map all existing or potential nesting sites and provide these maps to the Land Use Authority Permittees and Implementing Entity. Nesting sites must also be noted on plans that are submitted to a Land Use Authority Permittee. See Chapter 10 for the process to conduct and submit survey information.

RAPTOR-2 (Raptor Pre-Construction Surveys): Pre-construction surveys will be required to determine if active nests are present with a project footprint or within 0.25 mile of a project footprint if existing or potential nest sites are found during initial surveys and construction activities will occur during the raptor breeding season. An approved biologist will conduct pre-construction surveys within 30 days and 3 days of ground-disturbing activities within the proposed project footprint and within 0.25 mile of the proposed project footprint to determine presence of nesting covered raptor species. Pre-construction surveys will be conducted during the raptor breeding season. If a nest is present, then RAPTOR-3 and RAPTOR-4 will be implemented. The approved biologist will inform the Land Use Authority Permittee and Implementing Entity of species locations, and they in turn will notify the Wildlife Agencies.

RAPTOR-3 (Raptor Nest/Roost Buffer): If active nests are found within the project footprint or within 0.25 mile of any project-related Covered Activity, the Third-Party Project Proponent will establish a 0.25 mile temporary nest disturbance buffer around the active nest until the young have fledged.

RAPTOR-4 (Raptor Nest/Roost Buffer Monitoring): If project-related Covered Activities within the temporary nest disturbance buffer are determined to be necessary during the nesting season, then an approved biologist experienced with raptor behavior will be retained by the Third-Party Project Proponent to monitor the nest throughout the nesting season and to determine when the young have fledged. The approved biologist will be on site daily while construction-related activities are taking place within the disturbance buffer. Work within the temporary nest disturbance buffer can occur with the written permission of the Implementing Entity and Wildlife Agencies. If nesting raptors begin to exhibit agitated behavior, such as defensive flights at intruders, getting up from a brooding position, or flying off the nest, the approved biologist/monitor will have the authority to shut down construction activities. If agitated behavior is exhibited, the biologist, Third-Party Project Proponent, Implementing Entity, and Wildlife Agencies will meet to determine the best course of action to avoid nest abandonment or take of individuals. The approved biologist will also train construction personnel on the required avoidance procedures, buffer zones, and protocols in the event that a covered raptor species flies into an active construction zone (i.e., outside the buffer zone).

6.3.6 Western Burrowing Owl

The western burrowing owl is a Covered Species under the SSHCP. Western burrowing owl was documented immediately adjacent to the Project Site along Elder Creek (EcoSynthesis 2024c). The initial habitat survey conducted by Ecosynthesis determined that, although somewhat suitable foraging conditions for western burrowing owl exist on the Project site, the site is not suitable for nesting by the species. Nonetheless, because potentially suitable nesting and roosting habitat for western burrowing owl exists both on the Project Site and other locations in the Project vicinity, and because the species is known to occur immediately adjacent to the Project site, the species could also occur in the Project Site.

If western burrowing owl occurs on the Project Site, individuals could be subject to entombment and mortality during mining-related vegetation removal or earthmoving. Adults may be able to escape such impacts, but eggs and juveniles could still be lost since they are unable to leave the nest burrow. Even if adults are not lost directly due to ground-disturbing activities, individuals could abandon eggs or juveniles in the nest burrow due to adjacent disturbances.

<u>Mitigation Measures</u>

The following mitigation measures are recommended to reduce the above potential impact to western burrowing owl:

- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement all applicable SSHCP Avoidance and Minimization Measures, including the following specific measures for western burrowing owl:

WBO-1 (Western Burrowing Owl Surveys): Surveys within modeled habitat are required for both the breeding and non-breeding season. If the project site falls within modeled habitat, an approved biologist will survey the project site and map all burrows, noting any burrows that may be occupied. Occupied burrows are often (but not always) indicated by tracks, feathers, egg shell fragments, pellets, prey remains, and/or excrement. Surveying and mapping will be conducted by the approved biologist while walking transects throughout the entire project site plus all accessible areas within a 250-foot radius from the project site. The centerline of these transects will be no more than 50 feet apart and will vary in width to account for changes in terrain and vegetation that can preclude complete visual coverage of the area. For example, in hilly terrain with patches of tall grass, transects will be closer together, and in open areas with little vegetation, they can be 50 feet apart. This methodology is consistent with current survey protocols for this species (California Burrowing Owl Consortium 1993). Adjacent parcels under different land ownership will be surveyed only if access is granted or if the parcels are visible from authorized areas. If suitable habitat is identified during the initial survey, and if the project does not fully avoid the habitat, pre-construction surveys will be required. Burrowing owl habitat is fully avoided if project-related activities do not impinge on a 250-foot buffer established by the approved biologist around suitable burrows. See Chapter 10 for the process to conduct and submit survey information.

WBO-2 (Western Burrowing Owl Pre-Construction Surveys): Prior to any Covered Activity ground disturbance, an approved biologist will conduct pre-construction surveys in all areas that were identified as suitable habitat during the initial surveys. The purpose of the pre-construction surveys is to document the presence or absence of burrowing owls on the project site, particularly in areas within 250 feet of construction activities. To maximize the likelihood of detecting owls, the pre-construction survey will last a minimum of 3 hours. The survey will begin 1 hour before sunrise and continue until 2 hours after sunrise (3 hours total), or begin 2 hours before sunset and continue until 1 hour after sunset. Additional time may be required for large project sites. A minimum of two pre-construction surveys will be conducted (if owls are detected on the first survey, a second survey is not needed). All owls observed will be counted and their location will be mapped. Surveys will conclude no more than 2 calendar days prior to construction. Therefore, the Third-Party Project Proponent must begin surveys no more than 4 days prior to construction (2 days of surveying plus up to 2 days between surveys and construction). To avoid last-minute changes in schedule or contracting that may occur if burrowing owls are found, the Third-Party Project Proponent may also conduct a preliminary survey up to 15 days before construction. This preliminary survey may count as the first of the two required surveys as long as the second survey concludes no more than 2 calendar days in advance of construction.

WBO-3 (Western Burrowing Owl Avoidance): If western burrowing owl or evidence of western burrowing owl is observed on the project site or within 250 feet of the project site during pre-construction surveys, then the following will occur:

During Breeding Season: If the approved biologist finds evidence of western burrowing owls within a project site during the breeding season (February 1 through August 31), all project-related activities will avoid nest sites during the remainder of the breeding season or while the nest remains occupied by adults or young (nest occupation includes individuals or family groups foraging on or near the site following fledging). Avoidance is establishment of a minimum 250-foot buffer zone around nests. Construction and other project-related activities may occur outside of the 250-foot buffer zone. Construction and other project-related activities may be allowed inside of the 250-foot non-disturbance buffer during the breeding season if the nest is not disturbed, and the Third-Party Project Proponent develops an avoidance, minimization, and monitoring plan that is approved by the Implementing Entity and Wildlife Agencies prior to project construction based on the following criteria:

- *The Implementing Entity and Wildlife Agencies approve of the avoidance and minimization plan provided by the project applicant.*
- *An approved biologist monitors the owls for at least 3 days prior to construction to determine baseline nesting and foraging behavior (i.e., behavior without construction).*

- *The same approved biologist monitors the owls during construction and finds no change in owl nesting and foraging behavior in response to construction activities.*

If there is any change in owl nesting and foraging behavior as a result of construction activities, the approved biologist will have authority to shut down activities within the 250-foot buffer. Construction cannot resume within the 250-foot buffer until any owls present are no longer affected by nearby construction activities, and with written concurrence from the Wildlife Agencies.

If monitoring by the approved biologist indicates that the nest is abandoned prior to the end of nesting season and the burrow is no longer in use, the non-disturbance buffer zone may be removed if approved by the Wildlife Agencies. The approved biologist will excavate the burrow in accordance with the latest California Department of Fish and Wildlife guidelines for burrowing owl to prevent reoccupation after receiving approval from the Wildlife Agencies.

The Implementing Entity and Wildlife Agencies will respond to a request from the Third-Party Project Proponent to review the proposed construction monitoring plan within 21 days.

During Non-Breeding Season: During the non-breeding season (September 1 through January 31), the approved biologist will establish a minimum 250-foot non-disturbance buffer around occupied burrows. Construction activities outside of this 250-foot buffer will be allowed. Construction activities within the non-disturbance buffer will be allowed if the following criteria are met to prevent owls from abandoning over-wintering sites:

- *An approved biologist monitors the owls for at least 3 days prior to construction to determine baseline foraging behavior (i.e., behavior without construction).*
- *The same approved biologist monitors the owls during construction and finds no change in owl foraging behavior in response to construction activities.*
- *If there is any change in owl foraging behavior as a result of construction activities, the approved biologist will have authority to shut down activities within the 250-foot buffer.*
- *If the owls are gone for at least 1 week, the Third-Party Project Proponent may request approval from the Implementing Entity and Wildlife Agencies that an approved biologist excavate usable burrows and install one-way exclusionary devices to prevent owls from re-occupying the site. After all usable burrows are excavated, the buffer zone will be removed and construction may continue.*

Monitoring must continue as described above for the non-breeding season as long as the burrow remains active.

WBO-4 (Western Burrowing Owl Construction Monitoring): During construction of Covered Activities, 250-foot construction buffer zones will be established and maintained around any occupied

burrow. An approved biologist will monitor the site to ensure that buffers are enforced and owls are not disturbed. The approved biologist will also train construction personnel on avoidance procedures, buffer zones, and protocols in the event that a burrowing owl flies into an active construction zone.

WBO-5 (Western Burrowing Owl Passive Relocation): Passive relocation is not allowed without the express written approval of the Wildlife Agencies. Passive owl relocation may be allowed on a case-by-case basis on project sites during the non-breeding season (September 1 through January 31) with the written approval of the Wildlife Agencies if the other measures described in this condition preclude work from continuing. Passive relocation must be done in accordance with the latest California Department of Fish and Wildlife guidelines for burrowing owl. Passive relocation will only be proposed if the burrow needing to be removed or with the potential to collapse from construction activities is the result of a Covered Activity. If passive relocation is approved by the Wildlife Agencies, an approved biologist can passively exclude birds from their burrows during the non-breeding season by installing one-way doors in burrow entrances. These doors will be in place for 48 hours to ensure that owls have left the burrow, and then the biologist will excavate the burrow to prevent reoccupation. Burrows will be excavated using hand tools only. During excavation, an escape route will be maintained at all times. This may include inserting an artificial structure into the burrow to avoid having materials collapse into the burrow and trap owls inside. Other methods of passive relocation, based on best available science, may be approved by the Wildlife Agencies over the 50-year Permit Term.

WBO-6 (Western Burrowing Owl Timing of Maintenance Activities): All activities adjacent to existing or planned Preserves, Preserve Setbacks, or Stream Setback areas will be seasonally timed, when safety permits, to avoid or minimize adverse effects on occupied burrows.

WBO-7 (Rodent Control): Rodent control will be allowed only in developed portions of a Covered Activity project site within western burrowing owl modeled habitat. Where rodent control is allowed, the method of rodent control will comply with the methods of rodent control discussed in the 4(d) Rule published in the U.S. Fish and Wildlife Service's (2004) final listing rule for tiger salamander.

6.3.7 Nesting Birds Protected Under the Migratory Bird Treaty Act

Other nesting birds have not been documented within the Project Site, but they could be present on the Project Site in the future given the presence of suitable nesting and foraging habitat. Most of these species, with the exception of introduced species, are afforded protection under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (particularly while nesting). Some of these species would nest in the onsite woody vegetation (i.e., trees and shrubs), but other species would nest on or near the ground (mostly in the annual grassland). Consequently, should tree or other vegetation removal, as proposed for the Project, occur during the nesting season of these species (i.e., mid-February to late August), there is the potential for the loss of eggs or juveniles during these activities. In addition, mining-related vegetation removal or earthmoving could result in noise and visual changes

that distract adjacent nesting individuals from being properly attentive to eggs or juveniles. Consequently, there is some potential for nesting pairs to be sufficiently disturbed that eggs or juveniles are abandoned or otherwise lost.

Mitigation Measures

The following mitigation measures are recommended to reduce the above potential impact to nesting birds:

- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement all applicable SSHCP Avoidance and Minimization Measures.
- Trees slated for removal shall be removed during the period of September 1 through January 31 to avoid the nesting season. Any trees that are to be removed during the nesting season, which is February 1 through August 31, shall be surveyed by a qualified biologist and removed only if no active nests are found.
- If mining-related vegetation removal or earthmoving is initiated within 500 feet of nesting habitat between February 1and August 31, a pre-construction nesting bird survey shall be conducted by a qualified wildlife biologist prior to any mining-related vegetation removal or earthmoving. If active nests are found during the pre-construction survey, a non-disturbance buffer shall be established and maintained around the next to prevent nest failure. The size of the buffer shall be determined by a qualified biologist. All construction activities will be avoided within this buffer area until a qualified biologist determines that the nestlings have fledged, or until September 1.

6.3.8 Swainson's Hawk

The Swainson's hawk is a Covered Species under the SSHCP. Swainson's hawks are known to nest and forage within and immediately adjacent to the Project Site. Potential impacts to Swainson's hawk include direct or indirect disturbance to or loss of foraging or nesting habitat.

The Project Site supports 220.8 acres of annual grassland that is potential foraging habitat for this species. Implementation of the Project would result in the loss of all 220.8 acres of such habitat. Implementation of the Project may also directly or indirectly impact trees within or immediately adjacent to the Project Site that may be potential nesting habitat for these species. Consequently, should tree removal, as proposed for the Project, occur during the nesting season of these species (i.e., mid-March to late August), there is the potential for the loss of eggs or juveniles during the removal activities. In addition, nesting pairs located within up to 0.25 miles of the Project Site could be adversely affected during mining-related vegetation removal or earthmoving associated with the Project. Such adverse effects are typically associated with noise and visual changes that distract individuals from being properly attentive to eggs or juveniles. As such, there is some potential for nesting pairs to be sufficiently disturbed that eggs or juveniles are abandoned or otherwise lost.

Mitigation Measures

The following mitigation measures are recommended to reduce the above potential impact to Swainson's hawk*:*

- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement the following SSHCP Avoidance and Minimization Measures applicable to Swainson's hawk:

SWHA-1 (Swainson's Hawk Surveys): If modeled habitat for Swainson's hawk (Figure 3-25) is present within a Covered Activity's project footprint or within 0.25 mile of a project footprint, then an approved biologist will conduct a survey to determine if existing or potential nesting sites are present within the project footprint and adjacent areas within 0.25 mile of the project footprint. Adjacent parcels under different land ownership will be surveyed only if access is granted or if the parcels are visible from authorized areas. Nest sites are often associated with Riparian land cover, but also include lone trees in fields, trees along roadways, and trees around structures. Nest trees may include, but are not limited to, Fremont's cottonwood (Populus fremontii), oaks (Quercus spp.), willows (Salix spp.), walnuts (Juglans spp.), eucalyptus (Eucalyptus spp.), pines (Pinus spp.), and Deodar cedar (Cedrus deodara). The Third-Party Project Proponent will map all existing and potential nesting sites and provide these maps to the Land Use Authority Permittees and Implementing Entity. Nesting sites must also be noted on plans that are submitted to a Land Use Authority Permittee. See Chapter 10 for the process to conduct and submit survey information.

SWHA-2 (Swainson's Hawk Pre-Construction Surveys): If existing or potential nest sites were found during surveys (SWHA-1), and construction activities will occur during the breeding season (March 1 through September 15), pre-construction surveys will be required to determine if active nests are present within a project footprint or within 0.25 mile of a project footprint. An approved biologist will conduct pre-construction surveys within 30 days and again within 3 days of ground-disturbing activities to determine presence of nesting Swainson's hawk. Pre-construction surveys will be conducted during the breeding season (March 1 through September 15). If a nest is present, then SWHA-3 and SWHA-4 will be implemented. The approved biologist will inform the Land Use Authority Permittee and Implementing Entity of species locations, and they in turn will notify the Wildlife Agencies.

6.3.9 Merlin and Ferruginous Hawk

Merlin and ferruginous hawk are known to winter throughout the Central Valley in small numbers (including in the vicinity of the Project Site). The ferruginous hawk is a Covered Species under the SSHCP. The loss of annual grassland associated with the Project would result in a net decrease in the local foraging habitat for these species. However, both merlin and ferruginous hawk are wide-ranging species that forage over large areas. There is a substantial amount of foraging habitat for these species within the Project vicinity and elsewhere each winter. Moreover, Teichert is participating in the SSHCP and will

pay mitigation fees which will be used to protect foraging habitat for a variety of bird species, including merlin and ferruginous hawk. Therefore, no additional mitigation measures are suggested for these species.

Mitigation Measures

No additional mitigation is required.

6.3.10 Yellow-billed Magpie

Yellow-billed magpie has not been documented nesting or communally roosting within the Project Site. However, it has been documented at many locations throughout Sacramento County (as close as one mile from the Project Site). In addition, large trees in the Project vicinity provide potential nest sites for the species. Therefore, the species could occur on the Project Site as a nesting species. Yellow-billed magpies prefer groves of trees (often near water) for communal roost sites (typically in riparian woodland or forest). Given the lack of such habitat on or adjacent to the Project Site, the species is considered to have no potential to be impacted by the Project while communally roosting. However, during the nesting season, eggs or juveniles could be abandoned or otherwise lost due to adjacent disturbances.

Mitigation Measures

The following mitigation measure would reduce the above potential impact to yellow-billed magpie associated with the Project:

- To avoid and minimize impacts to nesting yellow-billed magpie, Teichert shall not initiate mining-related vegetation removal or earthmoving during the nesting season (February 15 through August 31). All initial vegetation removal or earthmoving shall occur between September 1 and February 14 to the extent feasible.
- Alternatively, if Teichert initiates mining-related vegetation removal or earthmoving between February 15 and August 31, surveys shall be conducted for nesting yellow-billed magpies in all suitable trees that are within 200 feet of the Project boundaries. The surveys shall be conducted by a qualified biologist immediately preceding initiation of each phase of mining-related vegetation removal or earthmoving on the Project site according to the following schedule: the first visit shall occur within 14 days prior to vegetation removal or earthmoving and the second visit shall occur within 3 days prior to vegetation removal or earthmoving.
- If nesting individuals are found prior to initiation of mining-related vegetation removal or earthmoving in the year of the survey, a mining exclusion zone shall be established within 200 feet of the active nest(s) until a qualified biologist determines that the young-of-the-year are no longer reliant upon the nest.
- Alternatively, Teichert may retain a qualified biologist to monitor any active nests that are within 200 feet or less from mining-related vegetation removal or earthmoving to determine if the individuals are exhibiting any behaviors that would suggest that nest failure could occur. If

the qualified biologist determines that disturbance is sufficient to cause nest failure, all activities within 200 feet of the nest will be terminated until the young-of-the-year are no longer reliant upon the nest. Under no circumstances shall mining-related vegetation removal or earthmoving be initiated within less than 100 feet of an active nest once nesting has begun.

6.3.11 Tricolored Blackbird

The tricolored blackbird is a Covered Species under the SSHCP. Tricolored blackbirds nest as a colonial species at scattered locations throughout Sacramento County where there is suitable nesting habitat (e.g., stands of cattail, tule, willow, California blackberry, Himalayan berry, wild rose, grain fields, milk thistle, stinging nettle, etc., that provide protection from nest predators) adjacent to large open expanses of non-irrigated, annual grassland; irrigated pasture/hay; or alfalfa that support large numbers of prey species (e.g., grasshopper, butterfly larvae, etc.). Tricolored blackbirds are known to nest in the vicinity of the Project Site, but there is no suitable nesting habitat present within the Project Site. Therefore, there are no expected impacts to tricolored blackbird nesting habitat as a result of the Project. However, tricolored blackbirds have been observed foraging within the Project Site. The Project Site supports 220.8 acres of annual grassland that is potential foraging habitat for tricolored blackbirds. Therefore, implementation of the Project could result in the loss of all 220.8 acres of foraging habitat.

Mitigation Measures

The following mitigation measure is recommended to reduce the above potential impact to tricolored blackbird foraging habitat:

- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement applicable Avoidance and Minimization Measures.

6.3.12 Western Red Bat and Pallid Bat

The western red bat is a Covered Species under the SSHCP. The Pallid Bat is not a Covered Species but is designated as a Species of Special Concern. Both bat species occur in a wide variety of habitats throughout California, and use open areas such as grasslands for foraging, and trees or other structures for roosting (Sequoia 2024). Potential impacts to these bat species include direct or indirect disturbance to or loss of foraging or roosting habitat.

The Project Site supports 220.8 acres of annual grassland that is potential foraging habitat for these species. Implementation of the Project would result in the loss of 220.8 acres of such habitat. Implementation of the Project may also directly or indirectly impact trees within or immediately adjacent to the Project Site that may be potential maternity roosting habitat for these species. Consequently, should tree removal, as proposed for the Project, occur during the maternity roosting season of these species (i.e., May through August), there is the potential for the loss of juveniles during

the removal activities. In addition, roosting colonies within 300 feet the Project Site could be adversely affected during mining-related vegetation removal or earthmoving associated with the Project. Such adverse effects are typically associated with noise and other disturbance that these bat species are sensitive to. As such, there is some potential for maternity roosting colonies to be sufficiently disturbed that they are abandoned or otherwise lost.

Mitigation Measures

The following mitigation measures are recommended to reduce the potential impacts to Western red bat and pallid bat.

- Obtain coverage for the Project under the SSHCP. In addition to payment of SSHCP fees and/or dedication of land in accordance with the SSHCP, implement the following SSHCP Avoidance and Minimization Measures applicable to Western red bat (can be applied to pallid bat as well):

BAT-1 (Maternity Roost Surveys): If modeled habitat (Figure 3-30) for western red bat is present within 300 feet of a Covered Activity's project footprint, and a Covered Activity is proposed between May 1 and August 31 (when pre-flight/nursing young may be present), then an approved biologist will conduct a field investigation of the project footprint and adjacent areas within 300 feet of the project footprint to determine if a potential maternity roost is present, and to identify and map potential maternity roost sites. Adjacent parcels under different land ownership will be surveyed only if access is granted or if the parcels are visible from authorized areas. If potential maternity roost sites are found, the Third-Party Project Proponent will note their locations on project designs and will design the project to avoid all areas within a 300-foot buffer around the potential maternity roost sites. As discussed in AMM BAT-3, maternity roost habitat is fully avoided if project-related activities do not impinge on a 300-foot buffer established by the approved biologist around an existing or potential maternity roost site. See Chapter 10 for the process for Covered Activity projects to conduct and submit project survey information.

BAT-2 (Maternity Roost Pre-Construction Surveys): If the Third-Party Project Proponent elects not to avoid potential maternity roost sites within the project footprint plus a 300-foot buffer during May through August, additional western red bat surveys are required. Prior to any ground disturbance related to Covered Activities or staging of equipment in the project footprint, an approved biologist will conduct a pre-construction survey within 3 days of ground-disturbing activities (within the project footprint and 300 feet of the project footprint) to determine the presence of maternity roost sites. Pre-construction surveys will be conducted during the roosting season when pre-flight/nursing young may be present (May 1 through August 31). If a maternity roost is present, then AMM BAT-3 shall be implemented. The approved biologist will inform the Land Use Authority Permittee and SSHCP Implementing Entity (the South Sacramento Conservation Agency) of all roost sites and species locations, and they in turn will notify the Wildlife Agencies (USFWS and CDFW), and provide all survey information to the Wildlife Agencies.

BAT-3 (Maternity Roost Buffer): If active maternity roost sites are found within the project footprint or within 300 feet of the project footprint between May 1 and August 31, the Third-Party Project Proponent will establish a 300-foot temporary disturbance buffer around the active maternity roost site until bats have vacated the roost and the Wildlife Agencies concur that the roost is vacant.

Very few western red bats are expected to be present in the Action Area in the winter months (November 1 through March 31). However, if active winter hibernaculum sites are found within the project footprint or within 300 feet of the project footprint between November 1 and March 31, the Third-Party Project Proponent will establish the same 300-foot temporary disturbance buffer around the active winter hibernaculum site until bats have vacated the hibernaculum and the Wildlife Agencies concur that the hibernaculum is vacant.

BAT-4 (Bat Eviction Methods for Non-Maternity and Non-Hibernaculum Roosts): An approved biologist will determine if non-maternity and non-hibernaculum day and night roosts are present on the project site. If direct impacts to non-maternity and non-hibernaculum day and night roosts cannot be avoided, the Third-Party Project Proponent will prepare a bat eviction plan, and inform the Land Use Authority Permittee and the SSHCP Implementing Entity (the South Sacramento Conservation Agency). They in turn shall inform the Wildlife Agencies, and provide the bat eviction plan for review. If necessary, the approved biologist may be allowed to remove the bats using safe-eviction methods acceptable to the Wildlife Agencies.

Additional suggested Avoidance and Minimization Measures are provided in Attachment F.

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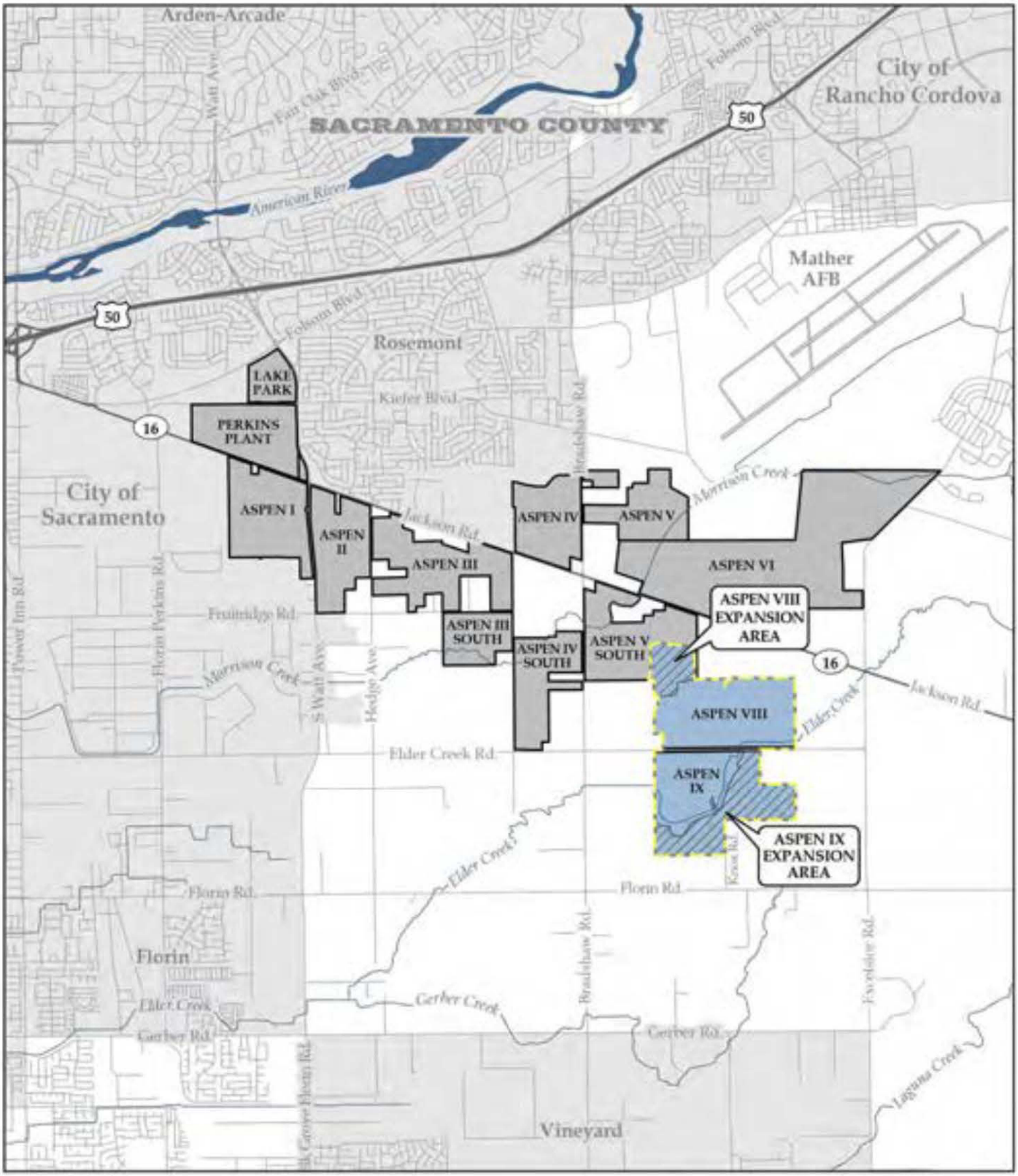
FIGURES

Figure 1	Site Vicinity Map
Figure 2	Project Site Map
Figure 3	Existing Habitats and Wetland Communities
Figure 4	Proposed Mining Areas and Preserve
Figure 5	Proposed Reclamation Plan
Figure 6	Elder Creek and Morrison Creek Watershed Map
Figure 7	Soils Map
Figure 8	CNDDB Rare Plant Locations
Figure 9	CNDDB Rare Animal Locations
Figure 10	Biological Resources and Impacts



TEICHERT MATERIALS

LEGEND:

- Project/ Expansion Area
- Aspen VIII & IX Property Boundary
- Teichert Aggregates Aspen Property Boundaries

0 0.5 1 Miles

DISCLAIMER:

The data was mapped for assessment purposes only. No liability is assumed for the accuracy of the data shown.

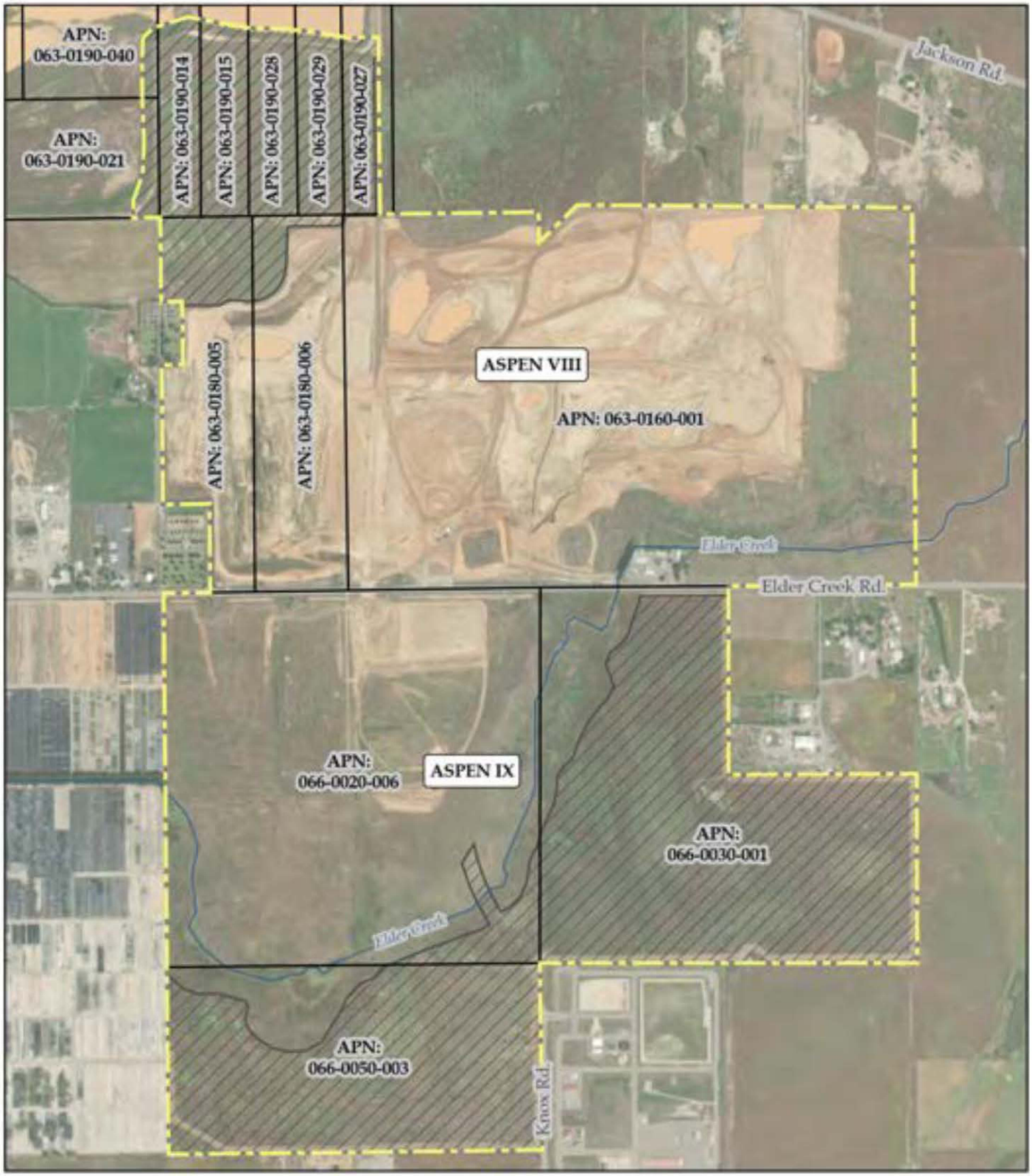
FIGURE 1

SITE VICINITY MAP

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C:\Cornelio 10/1/2024 AS89Amend_BRA.aprx (Fig1_Vicinity)



TEICHERT MATERIALS

LEGEND:

- Project/ Expansion Area
- Aspen VIII & IX Property Boundary
- Parcel Boundaries

0 500 1,000 Feet

SOURCE:
Aerial Photography Provided by ESRI Basemaps & Affiliates (Maxar: 4/26/2022)

DISCLAIMER:
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

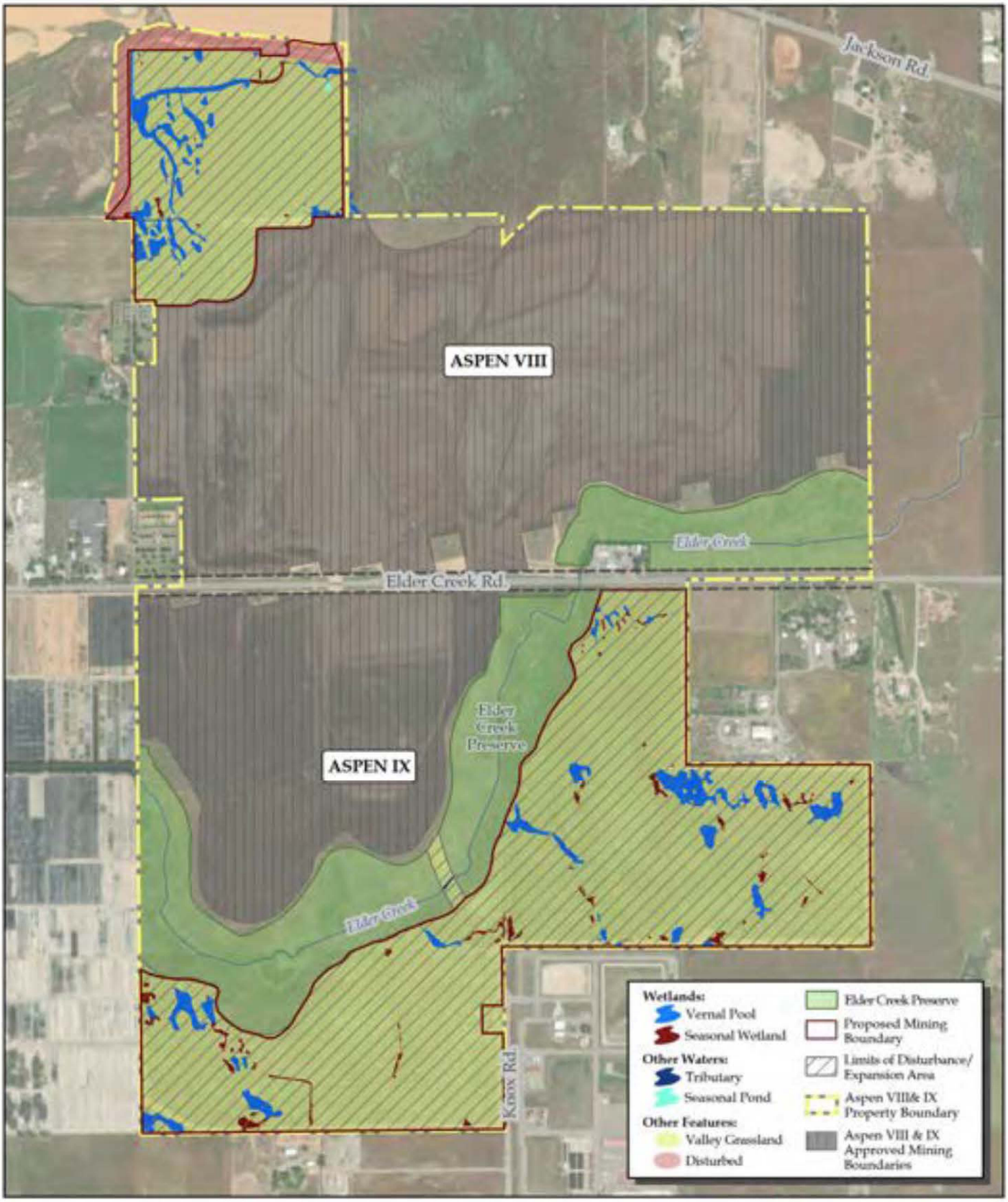
FIGURE 2

PROJECT SITE MAP

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 10/1/2024 AS89Amend_BRA.aprx (Fig2_Site)



TEICHERT MATERIALS

SOURCE:

Aquatic Resources Delineation Provided by EcoSynthesis (Sept. 2023)

Aerial Photography Provided by ESRI Basemaps & Affiliates (Maxar: 4/26/2022)

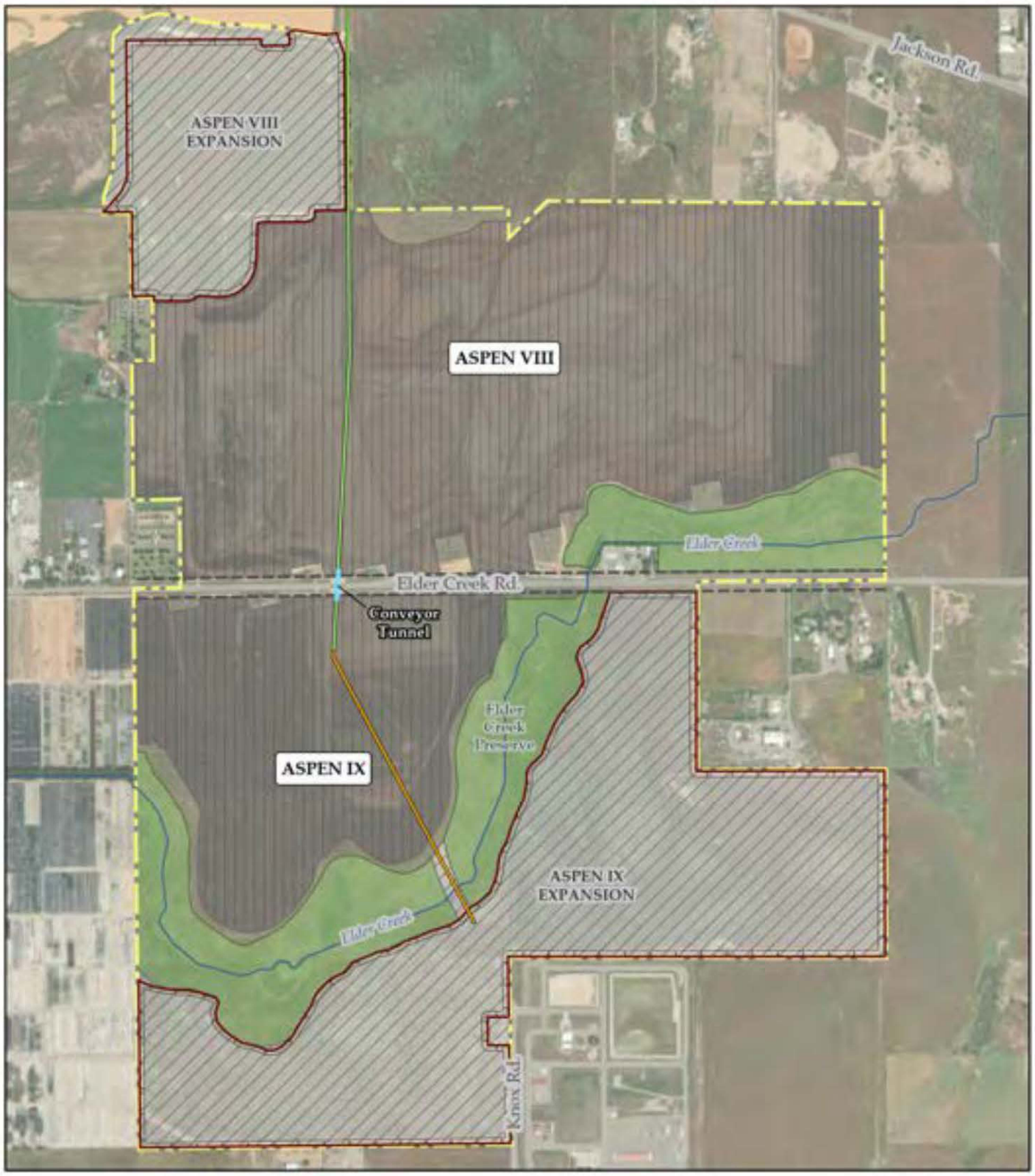
0 500 1,000 Feet

DISCLAIMER:

The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

FIGURE 3
EXISTING HABITATS AND WETLAND COMMUNITIES
BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS
SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 10/1/2024 AS89Amend_BRA.aprx (Fig3_Bio)



TEICHERT MATERIALS

LEGEND:
- Existing Conveyor Alignment
- Proposed Conveyor Alignment
- Existing Conveyor Tunnel
- Slope
- Proposed Mining Boundary
- Limits of Disturbance/ Expansion Area
- Aspen VIII & IX Property Boundary
- Aspen VIII & IX Approved Mining Boundaries

0 500 1,000 Feet

SOURCE:
Mine Plan Provided by Cunningham Engineering (March 2024)
Aerial Provided by ESRI Basemaps (Maxar: 4/26/2022)

DISCLAIMER:
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

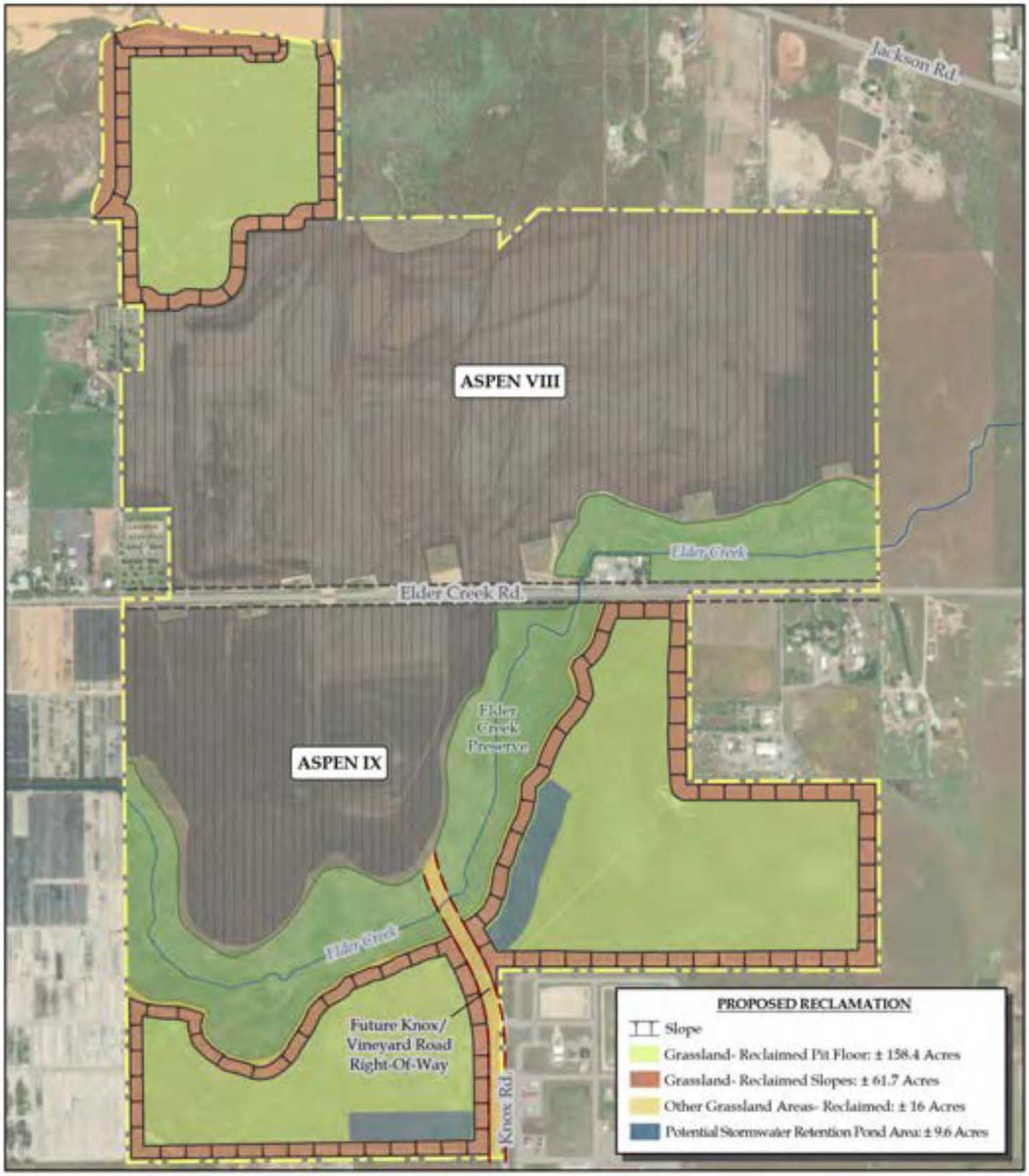
FIGURE 4

PROPOSED MINING AREAS

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 10/1/2024 AS89Amend_BRA.aprx (Fig4_Mining)



TEICHERT MATERIALS

LEGEND:

- Future Knox/ Vineyard Road Right-Of-Way
- Aspen VIII & IX Property Boundary
- Aspen VIII & IX Approved Mining Boundaries

0 500 1,000 Feet

SOURCE:
Rec Plan Provided by Cunningham Engineering (March 2024)
Aerial Provided by ESRI Basemaps (Maxar: 4/26/2022)

DISCLAIMER:
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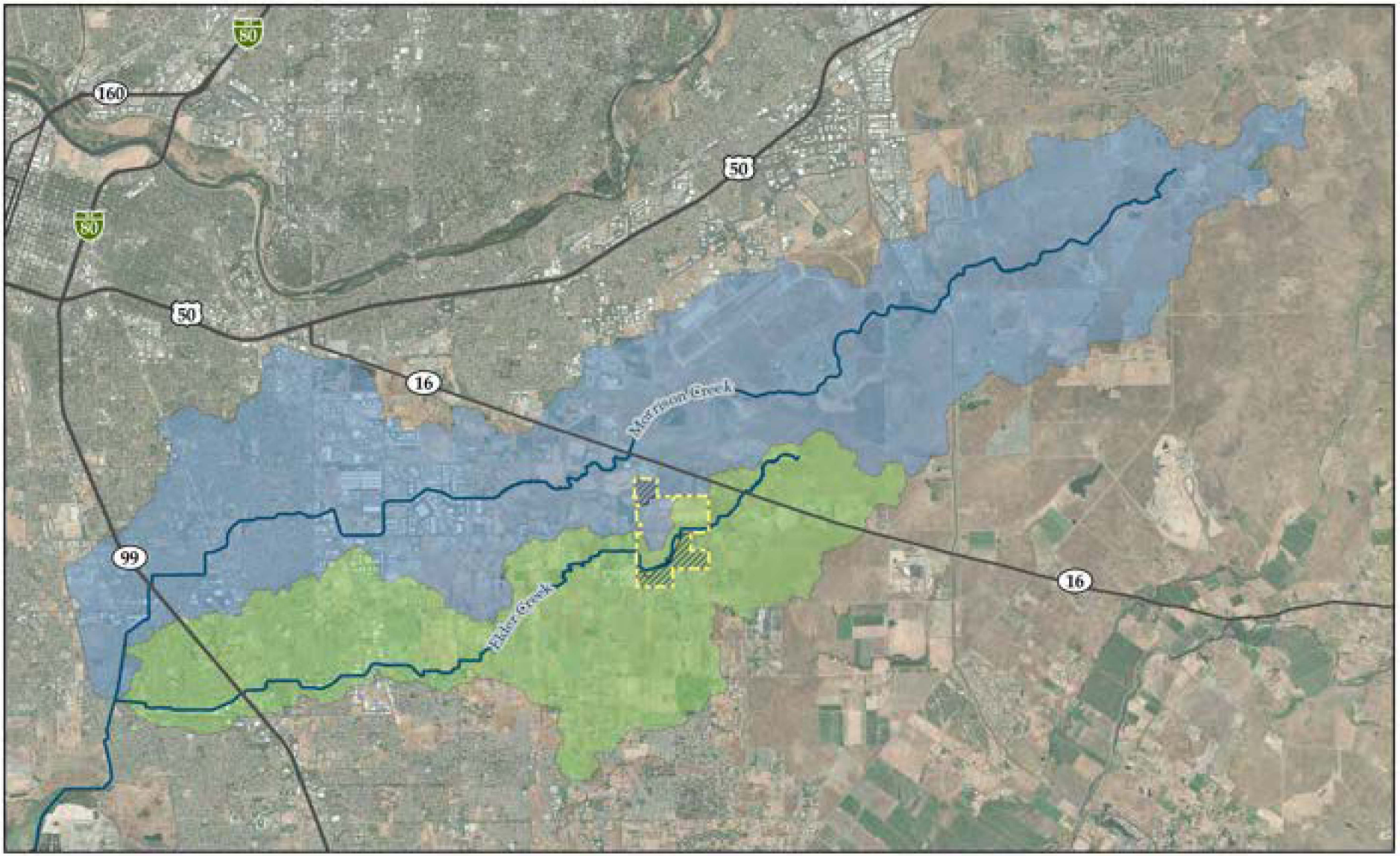
FIGURE 5

PROPOSED RECLAMATION

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 10/1/2024 AS89Amend_BRA.aprx (Fig5_ProposedRec)



TEICHERT MATERIALS

LEGEND:

- Morrison Creek & Elder Creek
- Morrison Creek Watershed
- Elder Creek Watershed
- Project/ Expansion Area
- Aspen VIII & IX Property Boundary

SOURCE:

Watersheds Provided by Foothill & Associates (2010)

Aerial Photography Provided by ESRI Basemaps & Affiliates (Maxar: April 26, 2022)

0 1 2 Miles

DISCLAIMER:

The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

FIGURE 6

MORRISON CREEK/ELDER CREEK WATERSHED MAP

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS
SACRAMENTO COUNTY, CALIFORNIA

C:\Cerespo 10/1/2024 AS89Amend_BRA.aprx (Figs_Watershed)

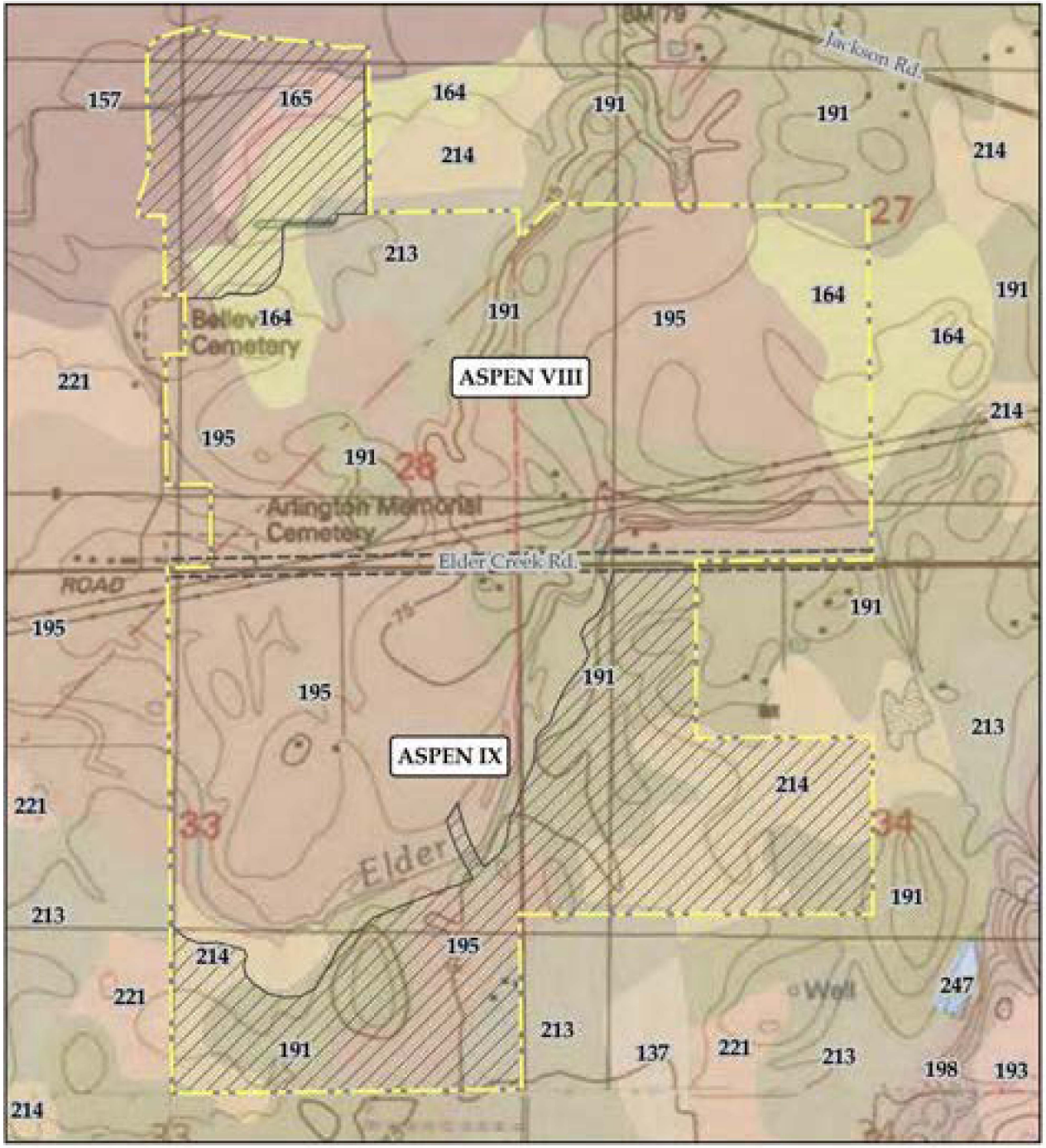


FIGURE 7

NATURAL RESOURCES CONSERVATION SERVICE SOIL TYPES

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

LEGEND:

NATURAL RESOURCES CONSERVATION SERVICE SOIL TYPES:

- 137- Durixeralfs, 0 to 1 percent slopes
- 157- Hedge loam, 0 to 2 percent slopes
- 164- Kimball silt loam, 0 to 2 percent slopes
- 165- Kimball silt loam, 2 to 8 percent slopes
- 191- Red Bluff loam, 0 to 2 percent slopes
- 193- Red Bluff-Redding complex, 0 to 5 percent slopes
- 195- Red Bluff-Xerarents complex, 0 to 2 percent slopes
- 198- Redding gravelly loam, 0 to 8 percent slopes
- 214- San Joaquin silt loam, 0 to 3 percent slopes
- 213- San Joaquin silt loam, leveled, 0 to 1 percent slopes
- 221- San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes
- 247- Water
- Project/ Expansion Area
- Aspen VIII & IX Property Boundary

0 600 1,200 Feet

SOURCE:

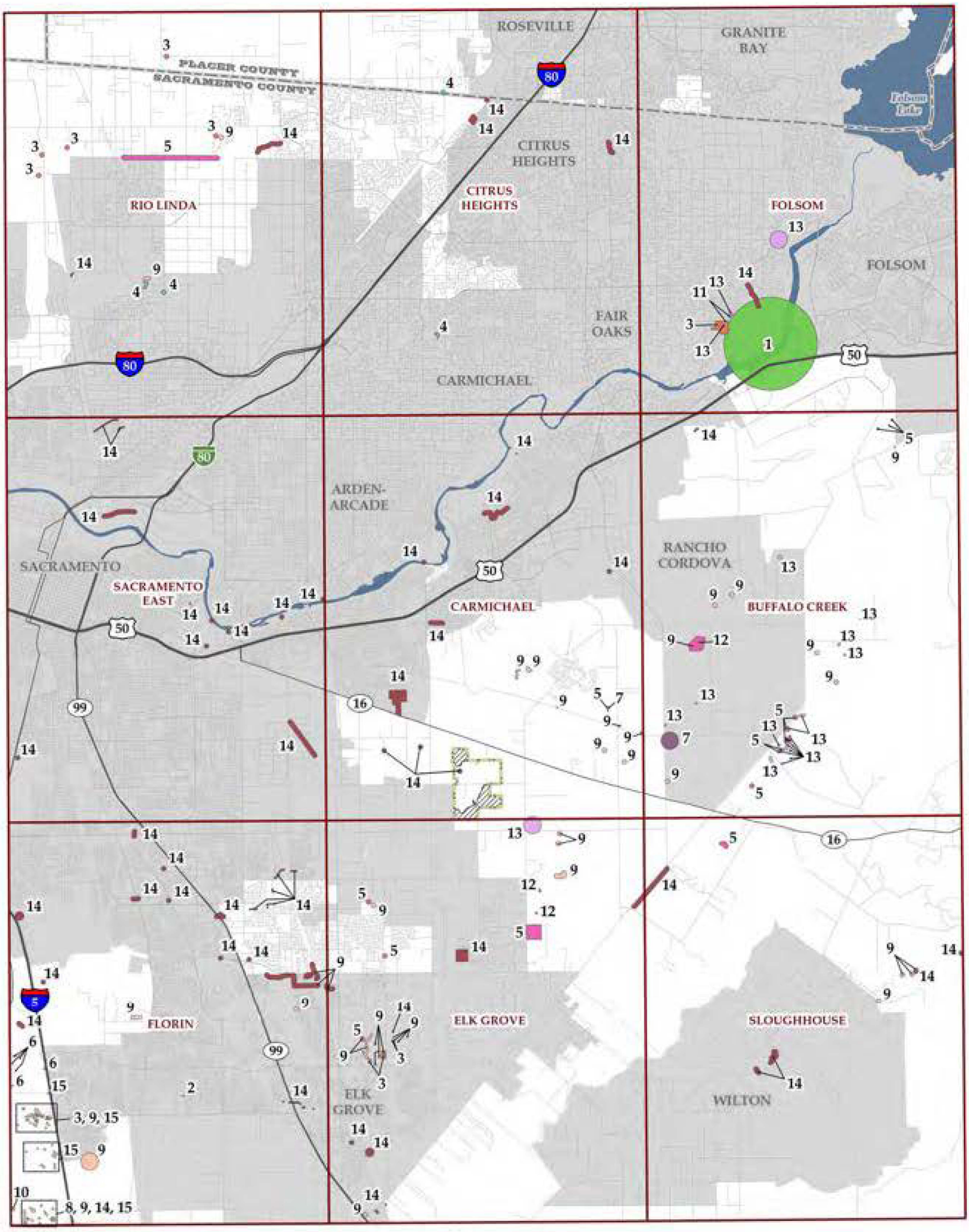
Soil Survey Provided by USDA: NRCS (version 5, Sept. 16, 2019)
USGS 7.5' Quads: Carmichael & Elk Grove

DISCLAIMER:

The data was mapped for planning purposes only.
No liability is assumed for the accuracy of the data shown.

TEICHERT MATERIALS

C:\Cenarip\10/1/2024 AS89Amend_BRA.aprx (Fig7_Soils)



CNDDB RARE PLANT SPECIES:

1 - Clarkia biloba ssp. brandegeeae
2 - Cuscuta obtusiflora var. glandulosa
3 - Downingia pusilla
4 - Fritillaria agrestis
5 - Gratiola heterosepala
6 - Hibiscus lasiocarpos var. occidentalis
7 - Juncus leiospermus var. ahartii
8 - Lasthenia chrysantha
9 - Legenere limosa
10 - Lepidium latipes var. heckardii
11 - Navarretia myersii ssp. myersii
12 - Orcuttia tenuis
13 - Orcuttia viscida
14 - Sagittaria sanfordii
15 - Trifolium hydrophilum

TEICHERT MATERIALS

LEGEND:

- Project/ Expansion Area
- Aspen VIII & IX Property Boundary
- 7.5' USGS Quad Boundaries

0 6,000 12,000 Feet

SOURCE:
CNDDB Provided by CDFW (March 2024)

DISCLAIMER:
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

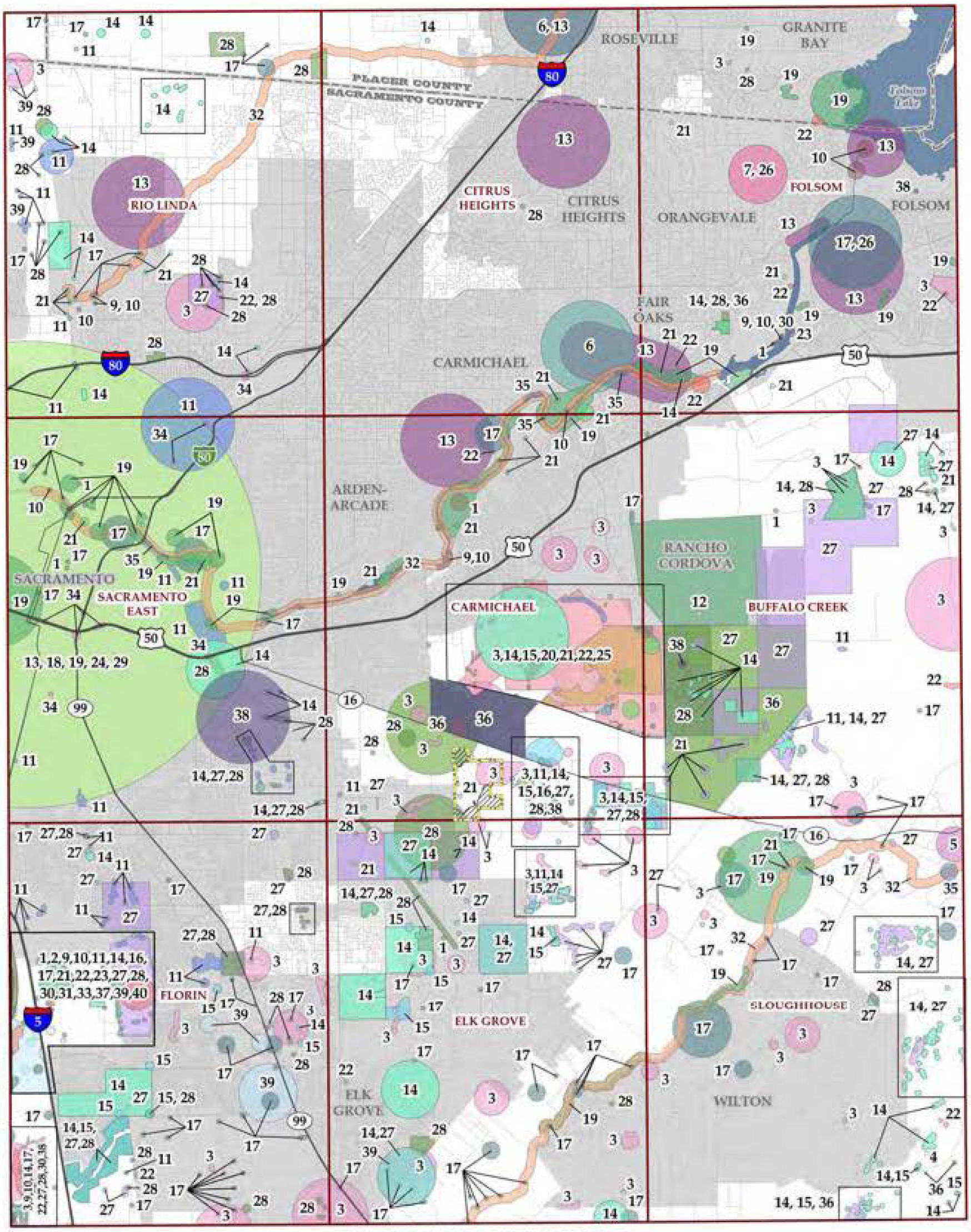
FIGURE 8

CNDDB RARE PLANT LOCATIONS

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 10/1/2024 AS89Amend_BRA.aprx (Fig8_CNDDB_Plants)



CNDDB RARE ANIMAL SPECIES:

1 - Accipiter cooperii
2 - Acipenser medirostris pop. 1
3 - Agelaius tricolor
4 - Ambystoma californiense pop. 1
5 - Andrena blennospermatis
6 - Andrena subapasta
7 - Antrozous pallidus
8 - Aquila chrysaetos
9 - Ardea alba
10 - Ardea herodias
11 - Athene cunicularia
12 - Bombus crotchii
13 - Bombus pensylvanicus
14 - Branchinecta lynchi
15 - Branchinecta mesovallensis
16 - Buteo regalis
17 - Buteo swainsoni
18 - Coccyzus americanus occidentalis
19 - Desmocerus californicus dimorphus
20 - Dumontia oregonensis
21 - Elanus leucurus
22 - Emys marmorata
23 - Falco columbarius
24 - Gonidea angulata
25 - Hydrochara rickseckeri
26 - Lasionycteris noctivagans
27 - Lepidurus packardi
28 - Linderiella occidentalis
29 - Melospiza melodia pop. 1
30 - Nannopterum auritum
31 - Nycticorax nycticorax
32 - Oncorhynchus mykiss irideus pop. 11
33 - Pogonichthys macrolepidotus
34 - Progne subis
35 - Riparia riparia
36 - Spea hammondii
37 - Spirinchus thaleichthys
38 - Taxidea taxus
39 - Thamnophis gigas
40 - Xanthocephalus xanthocephalus

TEICHERT MATERIALS

LEGEND:

- Project/ Expansion Area
- Aspen VIII & IX Property Boundary
- 7.5' USGS Quad Boundaries

0 6,000 12,000 Feet

SOURCE:
CNDDB Provided by CDFW (March 2024)

DISCLAIMER:
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

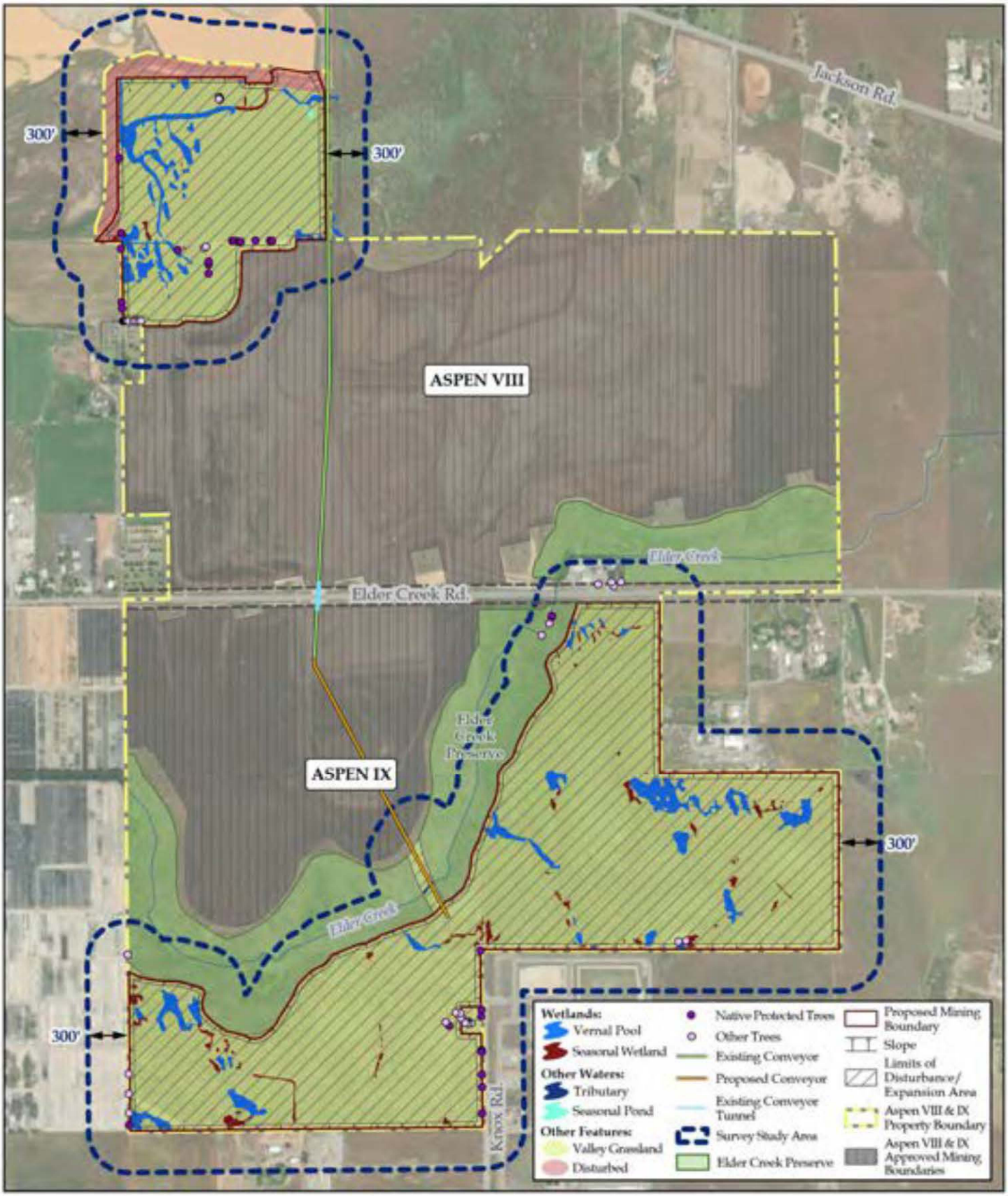
FIGURE 9

CNDDB RARE ANIMAL LOCATIONS

BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C:\Consejo 10\1\2024 AS89Amend_BRA.aprx (Fig9_CNDDB_Animal)



TEICHERT MATERIALS

SOURCE:

Aquatic Resources Delineation Provided by EcoSynthesis (Sept. 2023)

Aerial Photography Provided by ESRI Basemaps & Affiliates (Maxar: 4/26/2022)

0 500 1,000 Feet

DISCLAIMER:

The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

FIGURE 10
BIOLOGICAL RESOURCES AND IMPACTS
BIOLOGICAL RESOURCES ASSESSMENT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS
SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 10/1/2024 AS89Amend_BRA.aprx (Fig10_BioRes)

ATTACHMENT A

Teichert – Aspen VIII & IX Amendment Biological Resources Assessment
Special-Status Species Known or Potentially Known to Occur within the Project Vicinity

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
PLANTS				
DWARF DOWNINGIA *Downingia pusilla*	— / — / 2B / SSHCP / MH	Found in sites with seasonal hydrology and appropriate soils such as vernal pools, swales, ephemeral drainages, and margins of other seasonal wetlands. Observed in the Central Valley from Tehama County south to Fresno County, as well as in some valleys in northern counties.	March - May	Could Occur
TUOLUMNE BUTTON-CELERY *Eryngium pinnatisectum*	— / — / 1B / — / —	Found in swales, vernal pools, moist flats, and ephemeral drainages. Occurs in north-central Sierra Nevada Foothill and adjacent valley from Sacramento County south to Tuolumne County. Nearest occurrence is 15 miles east of the Project site in the foothills on soil types not found within in Project site.	May - August	Unlikely to Occur
BOGGS LAKE HEDGE-HYSSOP *Gratiola heterosepala*	— / SE / 1B / SSHCP / MH	Found in marshy lake margins, cattle ponds, and vernal pools of the Central Valley. Occasionally observed in the foothills between Shasta and Tulare Counties.	April - August	Could Occur
HOGWALLOW STARFISH *Hesperevax caulescens*	— / — / 4 / — / —	Found in vernal pools and seasonally saturated clay flats in the Central Valley and adjacent foothills.	March - June	Could Occur
AHART'S DWARF RUSH *Juncus leiospermus* var. *ahartii*	— / — / 1B / SSHCP / —	Found in the vernal pools, swales, and ephemeral drainages of the Eastern Sacramento Valley from Tehema County south to Sacramento County with some observations in Calaveras County.	March - May	Could Occur
LEGENERE *Legenere limosa*	— / — / 1B / SSHCP / MH	Found in shallow seasonal water such as vernal pools, seasonal wetlands, drainages, and along the margins of cattle ponds. Occurrence spans the Northern Central Valley and Inland Coast Range.	April - June	Could Occur
HECKARD'S PEPPERGRASS *Lepidium latipes* var. *heckardii*	— / — / 1B / — / —	Found in alkali flats and alkali grassland near the margins of vernal pools in the Western Sacramento Valley from Glenn County south to Solano County. The Project site does not support suitable alkali soils for this species.	March - May	Unlikely to Occur
HOARY NAVARRETIA *Navarretia eriocephala*	— / — / 4 / — / —	This species grows in wet flats, usually with heavy clay soil. Its range spans the southeastern Sacramento Valley and Sierra Nevada foothills between Yuba and Tuolumne Counties. The Project site is not within the known geographic range of this species (i.e., eastern valley and foothills).	May - June	Unlikely to Occur
PINCUSHION NAVARRETIA *Navarretia myersii* ssp. *myersii*	— / — / 1B / SSHCP / —	Grows in vernal pools, usually with acidic soil, in the eastern Central Valley and adjacent Sierra Nevada Foothills.	April - May	Could Occur
SLENDER ORCUTT GRASS *Orcuttia tenuis*	FT / SE / 1B / SSHCP / RA	This species is generally restricted to deeper vernal pools and other ephemeral wetlands with dense, clay soils. It grows in scattered populations in low- to mid-elevations from the Sacramento Valley north to the Modoc Plateau.	May - Oct	Could Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
SACRAMENTO ORCUTT GRASS *Orcuttia viscida*	FE / SE / 1B / SSHCP / RA	Often found in larger, deeper vernal pools. Known only in Sacramento County between Phoenix Field and Rancho Seco.	April - Sept	Could Occur
SANFORD'S ARROWHEAD *Sagittaria sanfordii*	— / — / 1B / SSHCP / MH	Found in the margins of small lakes, ponds, slow-moving creeks, rivers, ditches, and canals. Widely distributed throughout the Central Valley from Shasta County to Kern County at lower elevations. There are no such water types (i.e., perennially or long-term seasonally inundated wetlands) present within the Project site.	May - Aug	Unlikely to Occur
SALINE CLOVER *Trifolium depauperatum* var. *hydrophilum*	— / — / 1B / — / —	Found in salt marshes, alkali meadows, and vernal pools of central western California and southwestern Sacramento Valley. Unknown east of the Sacramento River. The closest occurrence is southwest of the Project site on soil types not present within the Project site.	April - June	Unlikely to Occur
INVERTEBRATES				
BLENNOSPERMA VERNAL POOL ANDRENID BEE *Andrena blennospermatis*	— /—/ CNDDB / — / —	Species is oligolectic on *Blennosperma*. Occurs in vernal pool grassland habitats where *Blennosperma* is found. Records include scattered locations along the edges of the Central Valley in Yolo, Solano, El Dorado, Sacramento, and Tehama Counties, and near the base of the Coast Ranges in Contra Costa, Lake, and Sonoma Counties.	Late Feb - April	Could Occur
ANDRENID BEE *Andrena subapasta*	— /—/ CNDDB / — / —	Inhabits upland areas near vernal pools. Females collect pollen primarily from *Arenaria*, but also *Triphysaria eriantha* and *Lasthenia* flowers. Occurs in vernal pool grassland habitats in El Dorado, Placer, Sacramento and San Joaquin Counties.	Late Feb - early May	Could Occur
CROTCH'S BUMBLE BEE *Bombus crotchii*	— / SC /CNDDB/ — / —	This species is nearly endemic to California, occurring in grasslands and shrublands throughout the state. Prefers hot, dry environments with scattered occurrences throughout Sacramento County. The closest occurrence is approximately four miles northeast of the Project site.	May - Sep	Could Occur
AMERICAN BUMBLEBEE *Bombus pensylvanicus*	— /—/ CNDDB / — / —	Found in grassland, farmland, and other open areas. This bumble bee species needs three things: nectar and pollen from diverse and abundant flowers from spring through autumn, undisturbed nesting sites in clumps of grass in proximity to floral resources, and overwintering sites in decaying wood for hibernating queens in proximity to spring floral resources.	May - Sep	Could Occur
CONSERVANCY FAIRY SHRIMP *Branchinecta conservatio*	FE / — / — / — / —	Typically found in alkaline pools, vernal lakes, and large vernal pools that are especially deep and turbid. Observed in several disjunct locations in the Central Valley. The pools within the Project site are too shallow to support this species.	Nov - May	Unlikely to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
VERNAL POOL FAIRY SHRIMP *Branchinecta lynchi*	FT /—/— / SSHCP / MH	Found in vernal pools and swales from Oregon, throughout the Central Valley, and west to the central Coast Ranges.	Nov - May	Likely to Occur
MID-VALLEY FAIRY SHRIMP *Branchinecta mesovallensis*	— /—/ CNDDB / SSHCP / MH	Found in vernal pools, swales, and other ephemeral freshwater habitats throughout southeastern Sacramento, Southern Sierra Foothill, San Joaquin, and Solano-Colusa regions.	Nov - May	Likely to Occur
MONARCH BUTTERFLY *Danaus plexippus plexippus*	FC / — / CNDDB / — / —	Migrant to the Central Valley during mating and breeding season (spring through early fall). Overwinters in coastal regions. Breeds in any habitat with milkweed plants (*Asclepias* spp.), their obligate larval host plant, including in urban gardens and undeveloped open spaces. Numerous occurrences throughout Sacramento County.	March - Sep	Could Occur
VALLEY ELDERBERRY LONGHORN BEETLE *Desmocerus californicus dimorphus*	FT / — / — / SSHCP / —	The subspecies occurs at scattered locations in the Central Valley and adjacent foothills of the Sierra Nevada and Coast Ranges. The subspecies is entirely dependent upon its host plant (i.e., *Sambucus* spp.) and is only found where this shrub occurs (typically in riparian vegetation associations, but occasionally in isolated shrubs or stands of the plant). Within the Project site, there is a single isolated elderberry shrub with stems significantly less than 1 inch diameter.	Year-round (exit holes)	Unlikely to Occur
Hairy water flea *Dumontia oregonensis*	— /—/ CNDDB / — / —	First described in 2003 from three pools in Oregon, this species has since been reported from southern Sacramento and Solano Counties. Little information exists regarding the species' habitat or life history requirements.	Nov - May	Could Occur
RICKSECKER'S WATER SCAVENGER BEETLE *Hydrochara rickseckeri*	— /—/ CNDDB / SSHCP / MH	Known historically from pond habitats, vernal pools, and other large seasonally inundated wetlands primarily around the San Francisco Bay area.	Nov - May	Could Occur
VERNAL POOL TADPOLE SHRIMP *Lepidurus packardi*	FE / — / — / SSHCP / MH	Occurs in vernal pools, swales, and other ephemeral freshwater habitats from Shasta to Merced Counties, with the majority of populations occurring in the Sacramento Valley.	Nov - May	Likely to Occur
CALIFORNIA FAIRY SHRIMP *Linderiella occidentalis*	—/—/ CNDDB / — / —	Found in vernal pools, swales, and other ephemeral freshwater habitats from Shasta County south to Fresno County, across the Central Valley and some of the coast ranges.	Nov - May	Likely to Occur
AMPHIBIANS				
CALIFORNIA TIGER SALAMANDER *Ambystoma californiense*	FT / ST / — / SSHCP / —	Restricted to large vernal pools, seasonal ponds, or stock ponds that hold water for at least 4 months during spring for breeding and larval development. Adult non-breeding habitat is generally grasslands and oak savannah. In Sacramento County, known only from southeastern areas (south of the Cosumnes River). There is no SSHCP modeled habitat within the Project site for this speices. This species is	March - May	Unlikely to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
		also not typically found in fragmented valley floor sites.		
California Red-Legged Frog *Rana draytonii*	FT / — / SSC / — / —	Found mainly near ponds in humid forests, woodlands, grasslands, coastal scrub, and stream-sides with plant cover. Most common in lowlands or foothills along the California coast and surrounding the Central Valley. Only a handful of scattered populations within the Central Valley. Within the Project site, the seasonal presence of surface water is too short to complete breeding and maturation for this species. In addition, the Project is not within movement distance of any known breeding site of this species.	Jan – Feb	Unlikely to Occur
Western Spadefoot Toad *Spea hammondii*	— / — / SSC / SSHCP / MHA & MHU	Restricted to vernal pools, seasonal wetlands, stock ponds, and quiet in-channel pools for breeding and larval development. Adult non-breeding habitat is generally grasslands. Known to occur within the Central Valley and surrounding foothills from Colusa County to Tulare County. In Sacramento County, known from southeastern areas (mostly south of the Cosumnes River), but also at Mather Field vernal pool complex.	March - May	Could Occur
REPTILES				
Western Pond Turtle *Actinemys marmorata*	— / — / SSC / SSHCP / —	Year-round resident of most of California except east of the Sierra Nevada range and desert regions. Habitat is permanent or nearly permanent ponds, lakes, streams, irrigation ditches, and pools. Requires basking sites. Scattered observations throughout Sacramento County. Within the Project site, the seasonal presence of surface water is too short for this primarily aquatic species.	March - Oct	Unlikely to Occur
Giant Garter Snake *Thamnophis gigas*	FT / ST / — / SSHCP / —	Found in marshes, low gradient streams, and adjacent rice fields supported by perennial fresh water in the Central Valley. All credible occurrences in Sacramento County are west of State Route 99. The Project site does not support perennial waters, nor is the site within the known geographic range of this species.	April - Sept	Unlikely to Occur
BIRDS				
Cooper's Hawk *Accipiter cooperii* (nesting)	—/—/ CNDDB / SSHCP / —	Nests in dense riparian or oak woodland. Hunts and winters in wide variety of woodland and forest vegetation communities. Most nesting occurrences in Sacramento County are associated with riparian habitat along the larger rivers or large urban stands of trees. Woodland habitat is not present within the Project site.	May - July	Unlikely to Occur
Tricolored Blackbird *Agelaius tricolor* (nesting)	— / ST / SSC / SSHCP / MHF & MHNF	Nests in dense stands of emergent freshwater marsh, willow, blackberry, thistle, nettles, or grasses. Forages in grassland or rangeland	April - July	Known to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
		providing an abundant source of food (e.g., grasshoppers or butterfly larvae) - often within at least three miles of the nest colony. Nesting colonies are scattered throughout Sacramento County.		
GRASSHOPPER SPARROW *Ammodramus savannarum* (nesting)	—/—/ SSC / — / —	Nests in dense, dry, expansive grasslands (sometimes with scattered shrubs). Forages in similar habitat. Species exhibits extreme site fidelity. In Sacramento County known only from southeastern county (mostly along Meiss Road). The Project site is not within the known narrow regional range of this species.	April - July	Unlikely to Occur
GOLDEN EAGLE *Aquila chrysaeto* (nesting & wintering)	—/—/ CFP / — / —	Nests on secluded cliffs, but may also use large, isolated trees. Hunts widely over open areas. Most records in Sacramento County are winter occurrences from the far eastern portions of the county. The Project site is too urban for this disturbance-sensitive species. In addition, there is insufficient suitable prey except in winter when waterfowl are present.	Year-round	Unlikely to Occur
GREAT EGRET *Ardea alba* (nesting colony)	—/—/ CNDDB / — / —	Nesting colonies are located in large trees adjacent to bodies of water, such as lakes, ponds, marshes and estuaries. Foraging habitat includes a variety of wetland habitats. Known to breed in Sacramento County only along the American and Cosumnes Rivers and the Delta region. There are no suitable nesting opportunities (i.e., large trees near large bodies of water) available within the Project site for this species.	March - July	Unlikely to Occur
GREAT BLUE HERON *Ardea herodias* (nesting colony)	—/—/ CNDDB / — / —	Breeding colonies are located in trees near isolated swamps or on islands, or near lakes and ponds bordered by forests. Foraging habitat includes freshwater and saltwater wetlands/water bodies, as well as grasslands and agricultural fields. Known to breed in Sacramento County only along the American and Cosumnes Rivers and the Delta region. There are no suitable nesting opportunities (i.e., large trees near large bodies of water) available within the Project site for this species.	Feb – July	Unlikely to Occur
SHORT-EARED OWL *Asio flammeus* (nesting)	—/—/ SSC / — / —	Nests on dry ground with vegetative cover. Found in open areas with few trees but dense vegetation such as grasslands, dunes, meadows, and wetlands. Few recorded observations in Sacramento County. No processed CNDDB observations in Sacramento County. While the vegetation and prey availability within the Project site are potentially suitable for this species, there does not seem to be incidence of this species within the Project region.	April - July	Unlikely to Occur
LONG-EARED OWL *Asio otus*	—/—/ SSC / — / —	This species requires grassland or other open spaces for foraging, as well as dense tall shrubs	Feb - July	Unlikely to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
(nesting)		or trees for nesting and roosting. Scattered populations exist in the mountain and coastal regions of the state. No records exist for this species within Sacramento County. There are no suitable nesting opportunities (i.e., dense trees or shrubs) available within the Project site for this species.		
WESTERN BURROWING OWL *Athene cunicularia hypugaea* (burrow sites & some wintering sites)	—/SC/ SSC / SSHCP / MHNW & MHW	Nests and winters in low open grassland or other low, open habitats with abundant small mammal burrows. Forages in similar habitats.	Year-round	Known to Occur
FERRUGINOUS HAWK *Buteo regalis* (wintering)	—/—/ CNDDB / SSHCP / MH	Winter migrant at lower elevations of Modoc Plateau, Central Valley, and Coast Ranges. Nests in natural or man-made elevated structures such as cliffs, shrubs, trees, hills, and boulders surrounding by expansive, open vegetation such as grassland, shrub, or desert. Observed throughout Sacramento County.	Sep - April	Could Occur
SWAINSON'S HAWK *Buteo swainsoni* (nesting)	— /ST / — / SSHCP / MHF	Summer migrant at the Central Valley, Modoc Plateau, and transmontane southeastern Sierra Nevada range. Nests in large, isolated trees or in low density juniper, riparian, or oak woodlands adjacent to open desert, grassland, or cropland for foraging. Observed throughout Sacramento County.	March - Oct	Known to Occur
MOUNTAIN PLOVER *Charadrius montanus* (wintering)	— / — / SSC / — / —	Found patchily distributed as a wintering species in California where it occurs on relatively level lands with short grass, plowed or burned agricultural fields, and sprouting grain or alfalfa fields. Species tends to show high site fidelity and has never been recorded in Sacramento County. The grassland habitat within the Project site is too tall and dense for this species. This species also does not appear to be present within the Project region.	Sep - March	Unlikely to Occur
NORTHERN HARRIER *Circus hudsonius* (nesting)	— / — / SSC / SSHCP / MHF & MHNF	Year-round resident of lower elevations throughout California with winter range including coastal mountains, Sierra Nevada foothills, and interior deserts. Nests on the ground in tall grasses, marshes, grain fields, desert sinks, and shrubby vegetation. Forages in open vegetation. Occurs throughout Sacramento County.	Year-round	Known to Occur
WESTERN YELLOW-BILLED CUCKOO *Coccyzus americanus occidentalis* (nesting)	FT / SE / — / — / —	Scattered populations in Central Valley and transmontane deserts. Nests in dense riparian forests dominated by willows and cottonwoods adjacent to slow-moving watercourses. No recent observations in Sacramento County. There is no riparian forest habitat present within the Project site.	June - Sep	Unlikely to Occur
WHITE-TAILED KITE *Elanus leucurus*	— / — / CFP / SSHCP / MHF	Found throughout the lower elevation portions of California in low rolling grasslands with	Year-round	Known to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
(nesting)		scattered oaks and river bottomlands or marshes adjacent to deciduous woodland. Requires grasslands, meadows, or marshes (for foraging) located near dense-topped trees (for nesting and roosting). Occurs throughout Sacramento County.		
MERLIN *Falco columbarius* (wintering)	—/—/ CNDDB / — / —	Occurs in a variety of low elevation, relatively flat habitats that include wooded areas, coastlines, open grasslands, savannah, and the periphery of lakes. It is less often found in open desert. It typically requires dense stands of trees for cover and roosting. It is most often found where there are substantial populations of small birds (the primary prey item). It is a regular winter visitor to Sacramento County.	Oct - March	Could Occur
PRAIRIE FALCON *Falco mexicanus* (nesting)	— / — / SSC / — / —	Nests on secluded cliffs, bluffs, or rock outcrops (particularly with southeastern exposure). Hunts in open terrain (grassland, oak savannah, and early succession stages of shrub and woodland habitats). Most records in Sacramento County are winter occurrences from the far eastern portions of the county. There are no rock outcrops or cliffs present within the Project site.	April - Aug	Unlikely to Occur
AMERICAN PEREGRINE FALCON *Falco peregrinus anatum* (nesting)	FD/SD/CNDDB/ — / —	Year-round resident of coastal and high elevation areas throughout California, with winter range including the Central Valley and transmontane mid-elevations. Nests in high cliffs or manmade structures near water. Observations in Sacramento County associated with large water bodies. There are no cliffs or tall buildings within the Project site.	March – Aug	Unlikely to Occur
BALD EAGLE *Haliaeetus leucocephalus* (nesting & wintering)	FD / SE / CFP / — / —	Year-round resident in northeastern California and Sierra Nevada foothills, and winter migrant along coast, Central Valley, and transmontane mid-elevations. Nests and winters in large trees near large lakes, rivers, or wetlands. Observations in Sacramento County associated with large water bodies. There are no large water bodies present within the Project site.	Oct - March	Unlikely to Occur
LEAST BITTERN *Ixobrychus exilis* (nesting)	— / — / SSC / — / —	Breeds in tall emergent vegetation in marshes, primarily freshwater, less commonly in coastal brackish marshes and mangrove swamps. Breeding populations known from throughout California, including the Central Valley. In Sacramento County, only known to occur in far eastern portion of county. There is no marsh habitat present within the Project site.	March – Aug	Unlikely to Occur
LOGGERHEAD SHRIKE *Lanius ludovicianus* (nesting)	— / — / SSC / SSHCP / MHF & MHNF	Year-round resident throughout California, except the northwest and high elevations of Sierra Nevada range. Found in open habitats with low cover and sparse shrubs, trees, or other perches. Scattered observations throughout Sacramento County.	April - July	Known to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
CALIFORNIA GULL *Larus californicus* (nesting colony)	—/—/ CNDDB / — / —	A fairly common nester at alkali and freshwater lacustrine habitats east of the Sierra Nevada and Cascade ranges, and an abundant visitor to coastal and interior lowlands in nonbreeding season. Observations in Sacramento County associated with large water bodies. There is no lacustrine habitat within the Project site.	April - Aug	Unlikely to Occur
SONG SPARROW (MODESTO POPULATION) *Melospiza melodia* "Modesto" (nesting)	— / — / SSC / — / —	The Modesto Song Sparrow is found in areas containing extensive wetlands, such as the Sacramento-San Joaquin Delta. It prefers freshwater marsh and riparian forest habitats with available water, open areas for foraging, and moderately dense vegetation cover for nesting. Known to occur in Sacramento County only from the Sacramento River and Delta region. There is no marsh or riparian habitat within the Project site.	March - Aug	Unlikely to Occur
DOUBLE-CRESTED CORMORANT *Nannopterum auritus* (nesting colony)	—/—/ CNDDB / — / —	Breeding colonies are typically formed in clusters of large trees near aquatic bodies (lakes, ponds) large enough to support a mostly fish diet. Only records from Sacramento County are from the American River and the Delta region. There are no suitable nesting opportunities (i.e., large trees near large bodies of water) available within the Project site for this species.	April – Aug	Unlikely to Occur
BLACK-CROWNED NIGHT HERON *Nycticorax nycticorax* (nesting)	—/—/ CNDDB / — / —	Fairly common, yearlong resident in lowlands and foothills throughout most of California except high elevations. Nests and roosts in dense trees and emergent vegetation. Observations in Sacramento County associated with large water bodies. There are no suitable nesting opportunities (i.e., dense trees or emergent vegetation) available within the Project site for this species.	Year-Round	Unlikely to Occur
OSPREY *Pandion haliaetus* (nesting)	—/—/ CNDDB / — / —	Found in northern California from Cascade Ranges south to Lake Tahoe, and along the coast south to Marin County. Regular breeding sites include large inland lakes, reservoirs, and rivers. Nests in large platforms of sticks in tall trees, cliffs, and human-made structures. Associated with large, open, fish-bearing waters, primarily in forested habitats. Observations in Sacramento County associated with large water bodies. There are no large water bodies with fish present within the Project site.	Year-Round	Unlikely to Occur
AMERICAN WHITE PELICAN *Pelecanus erythrorhynchos* (nesting colony)	— / — / SSC / — / —	In California, now nests only at large lakes in Klamath Basin, but formerly bred in Central Valley and Salton Sea. Winter range includes San Francisco Bay-Delta region and southern California coasts and inland. May be found year-round in Central Valley. Scattered observations in Sacramento County associated with large	March - July	Unlikely to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
		water bodies. There are no large water bodies with fish present within the Project site.		
YELLOW-BILLED MAGPIE *Pica nuttalli* (nesting & communal roosts)	—/—/ CNDDB / — / —	Found as a resident and wintering species throughout the lower elevations of California in grasslands, saltbush scrub, chaparral, oak savannah, and other open woodland habitats near water (generally where there are large trees with dense cover for nesting and roosts). Scattered observations throughout Sacramento County.	Year-round	Could Occur
PURPLE MARTIN *Progne subis* (nesting)	— / — / SSC / — / —	Extremely localized and limited distribution along Central to North Coast, Sierra Nevada and Cascades, southern California mountains, and Sacramento. Nests mostly in old woodpecker cavities in tall, old, isolated trees or snags. However, the small population in Sacramento County appears to be limited to the drainage holes on the underside of bridges (mostly along the I-5, US 50, and I-80 corridors). There are no suitable nesting opportunities (i.e., woodpecker holes and other cavities) available within the Project site for this species.	April - Sept	Unlikely to Occur
BANK SWALLOW *Riparia riparia* (nesting)	— / ST / — / — / —	Formerly found as a summer nesting species within a larger California distribution along the coast and adjacent to larger streams and rivers. Range is now concentrated along Central Valley streams and rivers. Nests in vertical banks and cliffs with fine-textured sandy soils. No existing nesting habitat for the species occurs on the project site, but mining activities can create habitat that is sometimes then used by the species. There have been no occurrences of nesting in mining sites in Sacramento County. There are incised creek banks adjacent to the Project site along Elder Creek, but the banks are too low and too compact for this species to use.	April - July	Unlikely to Occur
MAMMALS				
PALLID BAT *Antrozous pallidus*	— / — / SSC / — / —	Resident in all desert, grassland, shrub, woodland, and forest habitats from low to mid elevations. Day roosts are typically found in buildings, bridges, rocky outcrops, mines, caves, and trees. Roosts must provide sufficient protection from high temperatures. Very sensitive to roost disturbance. Few occurrences are known for Sacramento County.	April - Sept	Could Occur
TOWNSEND'S BIG-EARED BAT *Corynorhinus townsendii*	— / — / SSC / — / —	Found throughout California, but the details of its distribution are not well known. This species is found in all but subalpine and alpine habitats and may be found at any season throughout its range. It is most abundant in mesic habitats. There are no suitable roosting sites (i.e., caves,	April - Oct	Unlikely to Occur

Table A-1
Special-Status Species Known or Potentially Known to Occur within the Aspen VIII/IX Amendment Project Vicinity

Common Name *Scientific Name*	Status Fed / State/ Other / SSHCP	Habitat and Distribution	Survey Period	Potential For Occurrence
		abandoned buildings, or large tree cavities) within the Project site for this species.		
WESTERN MASTIFF BAT *Eumops perotis*	— / — / SSC / — / —	Uncommon resident in southeastern San Joaquin Valley and Coastal Ranges from Monterey County southward through southern California. Occurs in a wide variety of open, arid habitats. There are no suitable roosting sites (i.e., crevices in cliffs, high buildings, trees, or tunnels) within the Project site for this species.	Year-Round	Unlikely to Occur
SILVER-HAIRED BAT *Lasionycteris noctivagans*	—/—/ CNDDB / — / —	Year-round resident of coastal and montane forests, foothill woodlands, and riparian habitats. During migration may be found anywhere in California. Roosts in crevices and caves. Few occurrences in Sacramento County. There are no suitable roosting sites (i.e., forested habitat with tree cavities/crevices) within the Project site for this species.	May - Aug	Unlikely to Occur
WESTERN RED BAT *Lasiurus blossevillii*	— / — / SSC / SSHCP / MHF	Occurs at scattered locations throughout the lowland portions of California west of the Sierra Nevada crest and desert regions in riparian forest or orchards. Roosting sites are found in tree or shrub foliage (typically in large cottonwoods, sycamores, walnuts, and willows). Few historical occurrences in Sacramento County.	April - Sept	Could Occur
YUMA MYOTIS *Myotis yumanensis*	—/—/ CNDDB / — / —	Found in a variety of habitats (including coastal vegetation communities and urban areas) with nearby sources of water over which the species forages. Day roosts are found in caves, mines, buildings, or crevices. Night roosts are typically associated with bridges, buildings, and other man-made structures. Scattered occurrences recorded throughout Sacramento County. There are very few suitable roosting sites (i.e., tree crevices) within the Project site for this species. There are no water bodies with the Project site during the warm season when the species migrates northward.	April - Sept	Unlikely to Occur
AMERICAN BADGER *Taxidea taxus*	— / — / SSC / SSHCP / MH	Found as a resident species at scattered localities throughout California (except in the coastal redwood region). Generally occurs in extensive, open habitats in the vicinity of abundant rodent populations. In Sacramento County, known mostly from the far eastern portions of the county. The Project site is too urban and fragmented for this disturbance-sensitive species. There is also a lack of large prey available for this species.	Year-round	Unlikely to Occur

SPECIAL STATUS CODE ABBREVIATIONS AND DEFINITIONS

FEDERAL

FE Federally listed as Endangered

FT	Federally listed as Threatened
FPE	Federally proposed as Endangered
FPT	Federally proposed as Threatened
FC	Federal Candidate Species (former Category 1 candidates)
FD	Federally Delisted

STATE

SE	State listed as Endangered
ST	State listed as Threatened
SR	State listed as Rare
SD	State Delisted
SC	State Candidate for Listing

OTHER

CFP	California Department of Fish and Wildlife designated "Fully Protected"
SSC	California Department of Fish and Wildlife designated "Species of Special Concern"
1A	California Rare Plant Rank - Presumed extinct
1B	California Rare Plant Rank - Rare or Endangered in California and elsewhere
2A	California Rare Plant Rank - Presumed extirpated in California, more common elsewhere
2B	California Rare Plant Rank - Rare or Endangered in California, more common elsewhere
3	California Rare Plant Rank - Plants About Which More Information is Needed, A Review List
4	California Rare Plant Rank - Plants of Limited Distribution, A Watch List
CNDDB	Species is tracked by the California Department of Fish and Wildlife's "California Natural Diversity Database"

SOUTH SACRAMENTO HABITAT CONSERVATION PLAN (SSHCP)

SSHCP	South Sacramento Habitat Conservation Plan (SSHCP) Covered Species
MH	The SSHCP has modeled habitat for this species within the Project Site
MHA	The SSHCP has modeled aquatic habitat for this species within the Project Site
MHF	The SSHCP has modeled foraging habitat for this species within the Project Site
MHNF	The SSHCP has modeled nesting-foraging habitat for this species within the Project Site
MHNW	The SSHCP has modeled nesting-wintering habitat for this species within the Project Site
MHU	The SSHCP has modeled upland habitat for this species within the Project Site
MHW	The SSHCP has modeled wintering habitat for this species within the Project Site
RA	The SSHCP does not have modeled habitat for this species within the Project site, but the Project Site is within 1 mile of the Mather Core Recovery Area

LIKELIHOOD OF OCCURRENCE DEFINITIONS

Known to Occur	Taxon was observed at the Project site during recent surveys.
Likely to Occur	Taxon previously reported within or immediately adjacent to the Project site or otherwise expected to occur due to neighboring occurrences and substantial habitat on the Project site.
Could Occur	Suitable habitat is available at the Project site; however, there is little to no other indicators that the taxon might be present.
Unlikely to Occur	Taxon is unlikely to be present due to poor habitat quality, lack of suitable habitat features, or known restricted current distribution that does not include the Project area.

ATTACHMENT B

Teichert Aspen VIII & IX Amendment Biological Resources Assessment
Aspen VIII & IX Amendment Botanical Survey (2024)

1.0 INTRODUCTION

1.1. PURPOSE AND SCOPE

This Attachment B documents a floristic special status plant survey throughout the Aspen Amendment Site, conducted on various dates in 2024 to determine whether any plant species that are listed as endangered, threatened, or rare, or which should be evaluated as such pursuant to CEQA Guideline 15380 (namely, CRPR lists 1 and 2, or on a case by case basis list 3), are present on the project site.

Although the survey was particularly focused on species that were determined to have the potential to occur on the site, based on their geographic range and habitat occurrence (the "target species"), it was a floristic survey, in which every plant observed was identified at least to the taxonomic level needed to determine whether it was a special status species or not. Discussion of target species is provided in the main body of the BRA, and a list of target species appears in Attachment A.

The vegetation and soils setting, and map of the study area, is provided in the main body of the BRA.

2.0 METHODS

The botanical survey was carried out by Adrian Juncosa, PhD, who has 35 years of experience conducting floristic botanical surveys in California, elsewhere in the U.S., and overseas on a total of over 50,000 acres of habitat. He formerly taught California floristics and plant systematics at UC Davis and is particularly expert in vernal pool plant surveys, with project experience on numerous sites in Amador, Butte, Fresno, Madera, Merced, Nevada, Placer, Sacramento, Solano, Shasta, and Yolo counties.

Botanical survey work and the contents of this Attachment generally followed the procedures provided in CDFW (2018), with the sole exception that target species were not confirmed to be evident and identifiable at reference sites at the same time as the survey work within the project site took place. However, appropriate phenology of target species was assured by visiting the site repeatedly and conducting the main survey at the optimal time for the majority of species, then returning later and resurveying pools that had still been inundated or too wet to survey (no plants yet present or definitively identifiable in wettest areas).

To this end, botanical visits to the site began in April, which as expected was too early for a botanical survey targeted at the species covered in the South Sacramento Habitat Conservation Plan and warranting evaluation during CEQA compliance. Most of the vernal pools remained completely inundated at that time, and even the plants on fringes (small ephemerals such as *Juncus uncialis* or, possibly, *Juncus leiospermus* ssp. *ahartii*) were not yet fully flowering. The main botanical survey took place during May 7-10; phenology at that time is shown in Photos 1 and 2 (following the text pages of this Attachment). Revisits were made May 17-19 at which time the wettest pools were resurveyed for such later-flowering species as *Legenere limosa*.

The standard approach to reference site visits is problematic for any botanical survey including vernal pools in the project region, because many (though not all) of the target species are characteristically or only found in pools whose combined season of shallow inundation and high soil moisture lasts until a relatively late date in the spring, whereas most of the potentially suitable habitat (vernal pools and seasonal wetlands), in particular within the present study site, dries up much earlier. Consequently, delaying field surveys until there has been confirmation of presence of identifiable material of the target species means that a substantial portion of the potentially suitable habitat will not be surveyed until the soil and most of the plants have dried up and become unidentifiable to the desired taxonomic level.

Parallel transects were walked at approximately 50 foot spacing throughout the entire study area, and, relying on the aquatic resources delineation map to ensure that all wetland features were visited, additional meandering transects were walked throughout the delineated wetlands, so that virtually every point within them could be observed from a distance no greater than about 10 feet. This combination of survey methods ensured that the survey was as comprehensively floristic as was reasonably feasible.

A very comprehensive plant list was available from earlier surveys of Teichert's Aspen project areas for the 2015 BRA. The coverage area of that survey overlapped but was not entirely the same as the Amendment Site, and, more importantly, summer irrigation that was occurring at that time was discontinued thereafter, so that some areas that supported marsh species such as cattails and tules (and the special status species *Sagittaria sanfordii*) in 2015 were either not included in the present survey area or no longer experienced summer inundation in 2024. Accordingly, the previous botanical survey list was used as a reference and a preliminary checklist, but no species found on the 2015 list that was not directly observed in 2024 is included in the list in this Attachment B.

All plant species present were identified by sight or by reference to Baldwin et al. (2009), the Jepson online eFlora (2024), and Flora of North America North of Mexico (FNANM; various volumes) and were noted on the checklist from the previous botanical survey of the Aspen project areas combined (thus, a larger study area than that of the present Amendment Site).

3.0 RESULTS

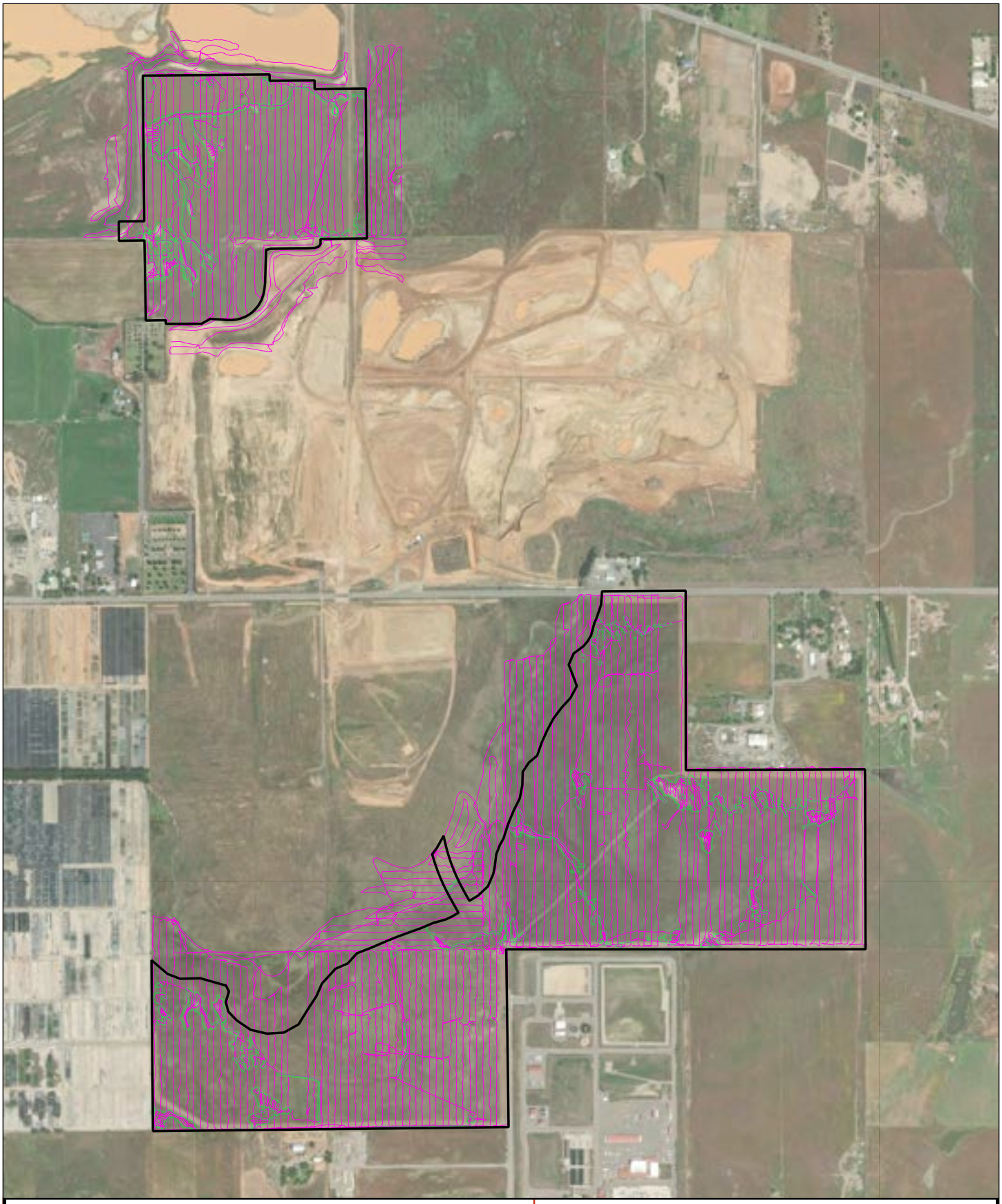
Three types of supplemental materials follow the text of this Attachment. Survey tracks are shown in Figure 1. Photographs illustrating the phenology of a typical vernal pool at the time of survey work, and of one plant (*Gratiola ebracteata*) that flowers at about the same time as some of the target species but is relatively ephemeral. The list of plant species observed forms Table 1 (end of the Attachment).

A total of 184 plant species were observed in the Amendment Site; none were either state- or federally listed as endangered, threatened, or rare, or were California Rare Plant Rank list 1, 2, or 3. Plants found and identified include several tiny, ephemeral species typical of both briefly inundated microsites (e.g., *Juncus uncialis, Limosella acaulis*) and habitat that is inundated until later in the spring (*Elatine brachysperma*). *Juncus uncialis* was found in only two locations, but was confirmed as that species by floral morphology (styles, anthers). No *Orcuttia* material, vegetative or reproductive, was seen anywhere in the study area at any time. No vascular plants or plant fragments were found during the survey that were either pre- or post-flowering and for that reason could not be definitively identified to a taxonomic level sufficient to determine whether a special status plant was present on site.

4.0 REFERENCES

Baldwin, et al. 2012. *The Jepson Manual: Vascular Plants of California (Second Edition).* University of California Press, Berkeley, California.

California Department of Fish and Wildlife (CDFW). 2018. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. Digital file downloaded from https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18959&inline.



Teichert Aspen Amendment Project
Biological Resources Assessment Attachment B
Figure 1. Botanical Survey Tracks
Scale: Approximately 1:12,000 (1″=1,000′)

North

Legend

Amendment Site boundary
Botanical and bird survey tracks
Wetland boundaries

Photo 1. Typical vernal pool at the time of most of the field survey work (May 7), showing peak flowering condition of species that have similar phenology to many of the target special status species.





Photo 2. Similar phenology photo of *Gratiola* ebracteata, which has generally similar phenology to its congener *G. heterosepala*.

Table B-1. Plant species observed in the Teichert Aspen Amendment Site in 2024, listed by groups (mosses, ferns, flowering dicots, and monocots) then alphabetically by family within groups. Nomenclature follows Baldwin et al. (2009) and FNANM (for mosses).

BRYOPHYTES	MOSSES (LISTED BY GENUS)
Bryum argenteum	
Dicranoweisia cirrata	
Fissidens crispus	
Funaria hygrometrica	
Scleropodium cespitans	
Syntrichia pagorum=laevipila	Synonymy according to FNANM.
PTERIDOPHYTES	FERNS
MARSILEACEAE	MARSILEA FAMILY
Pilularia americana	American pillwort
ANGIOSPERMS – DICOTYLEDONS	FLOWERING PLANTS
ADOXACEAE	MUSKROOT FAMILY
Sambucus nigra ssp. *caerulea*	Blue elderberry (single plant, all stems <<1" diameter)
AMARANTHACEAE	AMARANTH FAMILY
*Amaranthus albus**	Tumbleweed
Amaranthus californicus	Redroot pigweed
ANACARDIACEAE	SUMAC OR CASHEW FAMILY
*Pistacia atlantica**	Mt. Atlas mastic tree
APIACEAE	CARROT FAMILY
Eryngium castrense	Great Valley coyote thistle
APOCYNACEAE	DOGBANE FAMILY
Asclepias eriocarpa	Kotolo
Asclepias fascicularis	Narrow-leaf milkweed
ASTERACEAE	SUNFLOWER FAMILY
*Anthemis cotula**	Dog-fennel
Carduus pycnocephalus subsp. *pycnocephalus**	Italian thistle
*Centaurea solstitialis**	Yellow star-thistle
Centromadia fitchii	Fitch's spikeweed
*Cichorium intybus**	Chicory
*Cirsium vulgare**	Bull thistle
*Cotula coronopifolia**	Brass-buttons
*Dittrichia graveolens**	Stinkwort
Gnaphalium palustre	Western marsh cudweed
*Helminthotheca echioides**	Bristly ox-tongue
Heterotheca grandiflora	Telegraph weed
Holocarpha virgata subsp. *virgata*	Sticky tarweed
*Hypochaeris glabra**	Smooth cat's-ear
*Lactuca serriola**	Prickly lettuce
Lasthenia glaberrima	Smooth goldfields
Lasthenia fremontii	Fremont's goldfields *Leontodon*

ASTERACEAE (CONTINUED)	
Leontodon saxatilis subsp. *longirostris**	Common hawkbit
*Logfia gallica**	Daggerleaf cottonweed
*Matricaria discoidea**	Pineapple weed
*Pseudognaphalium luteoalbum**	Common cudweed *Psilocarphus*
Psilocarphus brevissimus var. *brevissimus*	Dwarf woolly-marbles
Psilocarphus oreganus	Oregon woolly-marbles
Psilocarphus tenellus	Slender woolly-marbles
*Senecio vulgaris**	Common groundsel
*Silybum marianum**	Milk thistle
*Soliva sessilis**	Common soliva, Field burrweed
Sonchus asper subsp. *asper**	Prickly sow thistle
Wyethia angustifolia	Narrow-leaved mule's ear
*Xanthium spinosum**	Spiny cocklebur
Xanthium strumarium	Cocklebur
BORAGINACEAE	BORAGE FAMILY
Amsinckia menziesii	Small-flowered fiddleneck
Plagiobothrys fulvus	popcornflower
Plagiobothrys greenei	Greene's popcornflower
Plagiobothrys stipitatus var. *micranthus*	Common vernal pool popcornflower
BRASSICACEAE	MUSTARD FAMILY
*Brassica rapa**	Field mustard, Turnip
*Capsella bursa-pastoris**	Shepherd's purse
Cardamine oligosperma	Western bittercress
*Hirschfeldia incana**	Perennial mustard
*Lepidium latifolium**	Perennial pepperweed/tall whitetop
Lepidium nitidum	Shining peppergrass
*Raphanus sativus**	Radish
Rorippa curvisiliqua	Western yellow cress, curvepod yellow cress
Rorippa palustris	Bog yellow cress
CAMPANULACEAE	BELLFLOWER FAMILY
Downingia bicornuta var. *picta*	Doublehorn downingia
Downingia ornatissima var. *ornatissima*	Folded downingia
CARYOPHYLLACEAE	PINK FAMILY
*Cerastium glomeratum**	Sticky mouse-ear chickweed
*Petrorhagia dubia**	Hairy pink
*Silene gallica**	Small-flower catchfly, Windmill pink
*Spergula arvensis**	Stickwort, Starwort
*Spergularia rubra**	Red sand-spurrey
*Stellaria media**	Common chickweed
CHENOPODIACEAE	GOOSEFOOT FAMILY
*Chenopodium album**	Lamb's quarters
*Chenopodium murale**	Nettleleaf goosefoot
CONVOLVULACEAE	MORNING-GLORY FAMILY
*Convolvulus arvensis**	Bindweed
Cuscuta howelliana	Vernal pool dodder

CRASSULACEAE	STONECROP FAMILY
Crassula aquatica	Water pygmy-weed
*Crassula tillaea**	Moss pygmy-weed, Mediterranean pygmy-weed
ELATINACEAE	WATERWORT FAMILY
Elatine brachysperma	Shortseed waterwort
EUPHORBIACEAE	SPURGE FAMILY
Croton setigerus	Turkey-mullein, Doveweed
*Sapium sebiferum**	Chinese tallow tree
FABACEAE	LEGUME FAMILY
Acmispon americanus var. *americanus*	Spanish clover
*Lotus corniculatus**	Bird's-foot trefoil
Lupinus bicolor	Miniature lupine
Lupinus nanus	Sky lupine
*Medicago polymorpha**	Common burclover
*Melilotus indicus**	Sourclover
Trifolium depauperatum var. *depauperatum*	Dwarf sack clover
*Trifolium dubium**	Shamrock
*Trifolium glomeratum**	Clustered clover
Trifolium incarnatum	Tomcat clover
*Trifolium campestre**	Hop clover
*Trifolium hirtum**	Rose clover
*Trifolium repens**	White clover
Trifolium variegatum var. *variegatum*	Variegated clover, White-tipped clover
Trifolium willdenovii	Cow clover
Vicia sativa subsp. *sativa**	Spring vetch
Vicia villosa var. *varia**	Winter vetch
FAGACEAE	OAK FAMILY
Quercus lobata	Valley oak
Quercus wislizenii var. *wislizenii*	Interior live oak
GENTIANACEAE	GENTIAN FAMILY
*Centaurium tenuiflorum**	Slender centaury
Cicendia quadrangularis	Timwort
GERANIACEAE	GERANIUM FAMILY
*Erodium botrys**	Longbeak filaree, Broadleaf filaree
*Erodium brachycarpum**	Short-fruit filaree, Whitestem filaree
*Erodium cicutarium**	Redstem filaree
*Erodium moschatum**	Greenstem filaree
*Geranium dissectum**	Cut-leaved geranium
HYPERICACEAE	ST. JOHN'S WORT FAMILY
Hypericum perforatum subsp. *perforatum**	Klamathweed
JUGLANDACEAE	WALNUT FAMILY
Juglans sp. (or hybrid)	black walnut

LAMIACEAE	MINT FAMILY
*Marrubium vulgare**	Horehound
*Mentha pulegium**	Pennyroyal
Trichostema lanceolatum	Vinegar weed
LIMNANTHACEAE	MEADOWFOAM FAMILY
Limnanthes douglasii ssp. *rosea*	Rosy Douglas' meadowfoam
LINACEAE	FLAX FAMILY
*Linum bienne**	Pale flax
LYTHRACEAE	LOOSESTRIFE FAMILY
*Lythrum hyssopifolia**	Hyssop loosestrife
*Lythrum portula**	Spatulaleaf loosestrife
MALVACEAE	MALLOW FAMILY
*Malva nicaeensis**	Bull mallow
MONTIACEAE	MINER'S LETTUCE FAMILY
Calandrinia ciliata	Red maids
Claytonia perfoliata subsp. *perfoliata*	Miner's lettuce
Montia fontana	Water chickweed, Blinks
MORACEAE	MULBERRY FAMILY
*Ficus carica**	Edible fig
*Morus alba**	White mulberry
MYRSINACEAE	MYRSINE FAMILY
*Lysimachia (Anagallis) arvensis**	Scarlet pimpernel
Lysimachia (Centunculus) minima	Chaffweed
OLEACEAE	OLIVE FAMILY
*Olea europaea**	Olive
ONAGRACEAE	EVENING PRIMROSE FAMILY
Epilobium brachycarpum	Annual willowherb
Epilobium ciliatum ssp. *ciliatum*	Fringed willowherb, Northern willowherb
Epilobium cleistogamum	willowherb
Ludwigia peploides subsp. *peploides**	Creeping water primrose
OROBANCHACEAE	BROOMRAPE FAMILY
Castilleja attenuata	Valley tassels
*Parentucellia viscosa**	Yellow glandweed
Triphysaria eriantha subsp. *eriantha*	Butter-and-eggs, Johnny-tuck
Triphysaria pusilla	Dwarf owl's-clover
Triphysaria versicolor subsp. *faucibarbata*	Yellow owl's-clover
PAPAVERACEAE	POPPY FAMILY
Eschscholzia californica	California poppy
PHRYMACEAE	LOPSEED FAMILY
Mimulus tricolor	Tricolor monkeyflower

PLANTAGINACEAE	PLANTAIN FAMILY
Callitriche heterophylla var. *heterophylla*	Varied leaved water starwort
Callitriche marginata	Winged water starwort
Gratiola ebracteata	hedge-hyssop
*Plantago lanceolata**	English plantain
Veronica peregrina subsp. *xalapensis*	Purslane speedwell
POLEMONIACEAE	PHLOX FAMILY
Navarretia leucocephala ssp. *leucocephala*	White-flowered navarretia
POLYGONACEAE	BUCKWHEAT FAMILY
Polygonum aviculare subsp. *depressum**	Common knotweed
*Rumex acetosella**	Sheep sorrel
*Rumex conglomeratus**	Clustered dock
*Rumex crispus**	Curly dock
*Rumex pulcher**	Fiddle dock
RANUNCULACEAE	BUTTERCUP FAMILY
Ranunculus aquatilus var. *hispidulus*	Fern-leaf water buttercup
Ranunculus bonariensis var. *trisepalus*	Vernal pool buttercup
*Ranunculus muricatus**	Spiny-fruit buttercup
RHAMNACEAE	BUCKTHORN FAMILY
Ceanothus sp.	California lilac
Frangula californica	California coffee-berry
ROSACEAE	ROSE FAMILY
Prunus sp.*	Apricot/plum tree
*Rubus bifrons (armeniacus, discolor, procerus)**	Himalayan blackberry
RUBIACEAE	MADDER FAMILY
Galium aparine	Goose grass
*Galium parisiense**	Wall bedstraw
SALICACEAE	WILLOW FAMILY
Populus fremontii subsp. *fremontii*	Fremont cottonwood
SCROPHULARIACEAE	FIGWORT FAMILY
Limosella acaulis	Owyhee mudwort
SOLANACEAE	NIGHTSHADE FAMILY
Solanum americanum	White nightshade
Solanum rostratum	Buffalobur nightshade
URTICACEAE	NETTLE FAMILY
Urtica urens	Dwarf nettle

MONOCOTYLEDONS	FLOWERING PLANTS - MONOCOTS
AGAVACEAE	CENTURY PLANT FAMILY
Chlorogalum pomeridianum	Soap plant
CYPERACEAE	SEDGE FAMILY
Carex praegracilis	Field sedge
Cyperus eragrostis	Tall nutsedge
Eleocharis acicularis	Least spikerush
Eleocharis macrostachya	Creeping spikerush
JUNCACEAE	RUSH FAMILY
Juncus balticus	Baltic rush
Juncus bufonius var. *bufonius*	Common toad rush
*Juncus capitatus**	Leafybract dwarf rush
Juncus uncialis	Inch high rush
POACEAE	GRASS FAMILY
*Agrostis avenacea**	Pacific bentgrass
*Aira caryophyllea**	Silver European hairgrass
Alopecurus saccatus	Vernal pool foxtail
*Avena barbata**	Slender wild oat
*Briza minor**	Little quaking grass
*Bromus diandrus**	Ripgut grass
*Bromus hordeaceus**	Soft-chess brome
*Cynodon dactylon**	Bermuda grass
Deschampsia danthonioides	Annual hairgrass
*Elymus caput-medusae**	Medusa head
*Festuca bromoides**	Brome fescue
*Festuca myuros**	Six-weeks fescue, Rattail fescue
*Festuca perennis**	Ryegrass
*Glyceria declinata**	Waxy mannagrass
Hordeum marinum ssp. *gussoneanum**	Mediterranean barley
Hordeum murinum ssp. *leporinum**	Hare barley
*Poa annua**	Annual blue grass
*Poa bulbosa**	Bulbous blue grass
*Polypogon monspeliensis**	Annual beard grass
THEMIDACEAE	BRODIAEA FAMILY
Brodiaea coronaria subsp. *coronaria*	Harvest brodiaea
Brodiaea elegans subsp. *elegans*	Elegant brodiaea
Brodiaea nana	Vernal pool brodiaea
Dichelostemma capitatum ssp. *capitatum*	Blue dicks
Triteleia laxa	Ithuriel's spear
Triteleia hyacinthina	White brodiaea

ATTACHMENT C

Teichert Aspen VIII & IX Amendment Biological Resources Assessment
Aspen VIII & IX Use Permit Amendment Arborist Report (2024)

ASPEN VIII & IX USE PERMIT AMENDMENT

ARBORIST REPORT

Teichert Materials – Sacramento County





Prepared For:

Sacramento County
Planning and Environmental Review Division
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Date: August 2024

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ASPEN VIII & IX USE PERMIT AMENDMENT
TEICHERT – SACRAMENTO COUNTY

Arborist Report
August 2024

1.0 INTRODUCTION

This Arborist Report has been prepared for Teichert Materials' (Teichert's) Aspen VIII and IX Use Permit Amendment (Project). The Project is an expansion of Teichert's existing Aspen VIII and IX surface mining operations located in Sacramento County, California. The Project is located approximately 0.5 miles south of Jackson Road (Highway 16) and 0.5 miles east of Bradshaw Road and is bisected by Elder Creek Road (Figure 1). The purpose of this report is to present the results of a tree survey conducted for the Project, including information about the species, size, condition, and location of the trees within and immediately adjacent to the proposed amended limits of disturbance. This information will be used to evaluate Project tree and tree canopy impacts and create appropriate mitigation pursuant to Sacramento County Code (Chapter 19.12 *Tree Preservation and Protection*) and policies of the Sacramento General Plan Conservation Element.

1.1 Project Overview

The existing Aspen VIII and IX Use Permit allows for surface mining on approximately 353 acres of a 683-acre project site. The proposed amendment would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres. (Figure 2). In addition to expanding the mine boundary, the Project will also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of Aspen IX (Figure 2). Aggregate resource material mined from the site will be transported via the existing conveyor belt to Teichert's Perkins processing plant, approximately 4 miles to the northwest.

1.2 Regulatory Context

The Sacramento County Tree Preservation Ordinance and policies within the General Plan Conservation Element afford various protections to native vegetation and the urban forest. Requirements for the protection of native oak trees are found in Sacramento County Code 19.12. This policy and ordinance require a project applicant to obtain authorization from the County for any project impacts which would encroach within the dripline of or destroy, kill, or remove any "tree," as defined, with the urban area of

the unincorporated area of Sacramento County, or any property, public or private. The ordinance defines "trees" as follows:

> "Any living native oak tree having at least one trunk of six inches or more in diameter measured four and one-half feet above the ground, or a multi-trunked native oak tree having an aggregate diameter of ten inches or more, measured four and one-half feet above the ground (DBH)."

In addition to protection of oak trees, the Conservation Element of the Sacramento County General Plan includes policies that build on Sacramento County's Tree Preservation and Protection Ordinance. Specifically, CO-138 and CO-139 require that other native trees (California sycamore and California black walnut), with a single trunk measuring six inches DBH or with an aggregate of multiple trunks measuring ten inches DBH, also be protected or otherwise mitigated for in accordance with existing tree replacement policies and standards for native oaks (i.e., on an inch-by-inch basis). Sacramento General Plan Policies CO-140 and CO-141 further expand on native tree protections by addressing tree canopy and other mitigation requirements for native oak woodlands, oak savannah and mixed riparian areas. Impacts to non-native tree canopy are addressed in the Urban Forest Management section of the General Plan under policies CO-145 and CO-146, which require mitigation for loss of non-native tree canopy as a result of development.

For projects that will substantially impact or remove on-site or off-site trees, an arborist report is typically required as part of the Planning Application. Impacted trees are defined as all on-site and off-site trees meeting the County's criteria of a 'protected' tree that have canopies overhanging the site or that may be impacted by off-site project-related construction.

1.3 Existing Conditions

The Aspen VIII property (Sacramento Co. Assessor's Parcel Numbers [APNs] 063-0180-005,-006, and 063-0160-001) is an approximately 319-acre site bounded by Elder Creek Road to the south, Bellevue and Arlington Cemeteries to the west, and agricultural land (grazing) to the north and east (Figure 2). The expansion from the Aspen VIII property would extend the northwest corner by approximately 60 acres (APNs 063-0190-014, -015, -016, -027, -028, and -029). The Aspen IX property (APNs 066-0020-006, 066-0030-001 and 066-0050-003) is an approximately 363-acre site located immediately south of Elder Creek Road, 0.5 mile east of Bradshaw Road, 0.25 mile north of Florin Road and 0.5 mile west of Excelsior Road (Figure 2). The proposed expansion would extend the property approximately 180 acres further west and south within APNs 066-0030-001 and -003. Current land uses surrounding the site include rural residential, agricultural cropland, rangeland, and a water treatment facility.

Biological communities within the Project are characterized primarily as annual valley grassland and wetlands (Figure 3). Much of the Project is valley grassland, totaling approximately 233.5 acres. These areas consist of relatively flat to moderately rolling hills dominated by soft chess (*Bromus hordeaceus*), ripgut brome (*Bromus diandrus*), wall barley (*Hordeum murinum*), Mediterranean barley (*Hordeum marinum* subsp. *gussoneanum*), brome fescue (*Festuca bromioides*), ryegrass,

longbeak filaree (*Erodium botrys*), perennial mustard (*Hirschfeldia incana*), winter vetch (*Vicia villosa* var. *varia*), common fiddleneck (*Amsinckia intermedia*), yellow star-thistle (*Centaurea solstitialis*), and bindweed (*Convolvulus arvensis*). Vernal pools and seasonal wetlands are common within these relatively undisturbed landscapes.

Wetlands identified and mapped on the Property include vernal pool, seasonal wetland, riverine, and seasonal pond (Figure 3). In addition, Elder Creek occurs on both Aspen VIII and IX, whereby it enters at the southeast corner of Aspen VIII and exits at the western boundary of Aspen IX (Figure 3). The creek is channelized throughout the Aspen VIII portion of the site, where it eventually enters an artificial expansion "pond" before flowing under Elder Creek Road and into Aspen IX. Once entering Aspen IX, the creek maintains its natural course before exiting the site on the west where it is once again channelized. The creek was previously a perennial feature due to inputs from adjacent irrigated pasture. Irrigation was terminated with the start of mining on the property, and Elder Creek now acts as an ephemeral drainage, filling with runoff during the rainy season but is dry the remainder of the year.

Trees are largely absent on the property except along borders where other features exist (i.e., homes, commercial structures, ditches, ponds, etc.). Most trees on site are the result of ornamental landscape plantings around current or previously existing residential homes. Himalayan blackberry (*Rubus armeniacus*) brambles are also interspersed with trees throughout the site along fence lines, irrigation ditches/ponds, and portions of Elder Creek.

Features surrounding the property include a rural residential home and associated farm/equipment storage buildings, Everde Growers Bradshaw Farm nursery, Bellview Cemetery, and a Sacramento County Water Resources facility. A remnant house foundation and grazing pastures are also present throughout the Property.

2.0 TREE SURVEY REPORT- IDENTIFICATION, INVENTORY AND ASSESSMENT

2.1 Survey Methods

An aerial photo of the site was used to determine potential tree locations and to develop field survey maps. Trees were then surveyed on foot by Teichert biologist R. Tueller (ISA Certified Arborist, Cert. #WE-13795A) on 09 and 10 April 2024 to verify and map all trees located within and immediately adjacent to the proposed amended limits of disturbance. In general, surveys were focused to areas within 150 feet of the proposed limits of disturbance. For trees located within the survey area but in adjacent properties not owned by Teichert, measurements were estimated due to lack of access onto these adjacent properties. Adjacent properties were not inventoried if their trees were determined to be well outside of potential impacts.

All trees with trunks equal to or greater than four inches in diameter were inventoried and mapped using a Trimble Juno global positioning system (GPS) unit with sub-meter accuracy. The Sacramento County Tree Preservation Ordinance and Conservation Element specifies trees measuring a minimum of

six inches DBH, however, trees measuring minimum of four inches DBH were documented to prevent exclusion of trees close to the six-inch DBH cutoff and to account for any growth occurring between time of survey and impact. All recorded trees were closely examined to determine species type and their diameter at breast height (DBH). To determine DBH, a diameter tape was used to verify each trunk diameter at the industry standard of 54 inches above grade. In addition, dripline radius was assessed based upon the measurement from the trunk to the end of the longest lateral limb, which defines the protection zone of the tree. The dripline radius was used to calculate the area (acreage) of the canopy for each tree.

The overall vigor of each tree was rated according to the Tree Vigor Rating System (Table 1 below). Vigor consists of a combined assessment of the health and structure of a tree. The health rating component considers factors such as the size, color, and density of the foliage; the amount of deadwood within the canopy; bud viability; evidence of wound closure; and the presence or evidence of stress, disease, nutrient deficiency, and insect infestation. The structural rating component reflects the trunk and branch configuration; canopy balance; the presence of included bark and other structural defects such as decay; and the potential for structural failure.

TABLE 1. ASPEN VIII & IX USE PERMIT AMENDMENT ARBORIST REPORT (2024) - TREE VIGOR RATING SYSTEM

Vigor Rating	Tree Health	Tree Structure
4	Healthy tree or shrub, free of signs and symptoms of disease. Leaf size, color, and density are typical for the species; buds are normal size, viable and abundant; current and past growth increments are better than average.	No wounds, cavities, decay, or indication of hollowness evident in the root crown, trunk, or primary and secondary limbs; no anchor roots exposed; no dead primary or secondary limbs present; there have been no major limb failures; limbs are not overburdened; branching structure appropriate for species.
3	Tree with moderate vigor, with very little evidence of stress or disease. Some thinning of crown and somewhat poor leaf color; buds are normal size and viable; current and past growth increments are generally average.	Average amount of deadwood/dieback with respect to the tree's size and growing environment; there have been no major limb failures; limbs are not overburdened; branching structure is appropriate for species; any callusing is vigorous; any decay is limited to small dead branches/stubs.
2	Tree in decline, with moderate evidence of stress, disease, nutrient deficiency, and/or insect infestation; epicormic growth evident; current and past growth increments below average; buds small and few; tree may be slow to callus around old wounds.	Dieback of medium to large branches; limbs slightly overburdened; branching structure and/or canopy balance moderately altered by the tree's growing environment; small to moderate wounds, cavities, decay, and indication of hollowness evident in the root crown, trunk, and/or primary and secondary limbs; some anchor roots may be exposed.
1	Tree in severe decline; most of the foliage is from epicormic growth; major evidence of stress, disease, nutrient deficiency and/or insect infestation; poor leaf color; buds unviable.	Dieback of scaffold branches and/or trunk; significant wounds, cavities, decay, and/or indication of hollowness evident in the root crown, trunk, and/or primary and secondary limbs; anchor roots exposed; limbs may be severely overburdened.
0	Tree is dead; no living tissue evident.	Extensive dieback evident, with branches completely dry and breaking easily; trunk and major limbs hollow; tree has lost all anchorage.

The following data was collected for each tree:

1. Tree tag number;
2. Species identification;
3. Location;
4. Trunk diameter at breast height (DBH);
5. Visual estimate of dripline radius; and
6. Visual assessment for health and structural condition using a 0-4 scale, defined in Table 1.

2.2 Survey Results

A total of 132 trees, representing 29 species, were surveyed. The numbers and types of trees surveyed are shown in Table 2 below. Data for all trees surveyed on-site and those which were accessible within 150 feet of the limits of disturbance boundary can be found in Appendix A. The number and locations of each tree surveyed on-site of the proposed expansion areas can be found in Figure 4.

Table 2. Aspen VIII & IX Use Permit Amendment Arborist Report (2024) Tree Species Surveyed

Common Name	Scientific Name	No. of Trees Surveyed
Valley oak	*Quercus lobata*	18
California black walnut	*Juglans hindsii*	13
Oleander	*Nerium oleander*	13
Black locust	*Robinia pseudoacacia*	13
Italian Cypress	*Cupressus sempervirens*	8
Prunus shrub	*Prunus spp.*	8
Goodding's black willow	*Salix gooddingii*	8
Mimosa	*Albizia julibrissin*	6
Olive	*Olea spp.*	6
Fremont cottonwood	*Populus fremontii*	6
Red gum*	*Eucalyptus camaldulensis*	5
Pear	*Pyrus spp.*	4
Tree of Heaven*	*Ailanthus altissima*	3
Dawn Redwood	*Metasequoia glyptostroboides*	3
Mulberry	*Morus spp.*	3
Ornamental willow	*Salix matsudana*	3
London Planetree	*Platanus acerifolia*	2
White Alder	*Alnus rhombifolia*	1
Common Hackberry	*Celtis occidentalis*	1
Citrus	*Citrus spp.*	1
European smoke tree	*Continus coggygria*	1
Edible fig*	*Ficus carica*	1
Coffeeberry	*Frangula tomentella*	1
Mount Atlas Mastic Tree	*Pistacia atlantica*	1
Chinese pistache	*Pistacia chinensis*	1
Interior live oak	*Quercus wislizenii*	1
Chinese tallowtree*	*Triadica sebifera*	1

*The California Invasive Plant Council classifies this tree as a "Not-Native Invasive" species with moderate status regarding potential impact to local native ecosystems.

Most of the trees observed were along property fence lines, ditches, ponds, and residential/business landscapes (Figure 4). The most frequently occurring native tree species found were Northern California black walnut and valley oak. Black walnut trees were generally found to be growing as individuals along fence lines. Valley oaks are common in California annual grasslands, and several valley oak trees were found scattered within the survey area but did not form an oak woodland canopy. Only two of the heritage oak trees surveyed, measuring over 18 inches DBH, have potential to be impacted by the project. Goodding's black willow trees are common California native trees that are colonizers of disturbed sites with a continuous water supply. All surveyed black willows existed adjacent to irrigation water sources, with the majority concentrated along an irrigation pond and connected ditches in the northwestern portion of Aspen VIII. Oleander, Black locust, and Italian Cypress were the most common non-native trees surveyed. These were found along fence lines of residential and business properties. Oleander and Italian cypress trees are common non-native landscape trees, usually planted for a wind break or along driveways.

In general, the highest concentrations of trees were found in association with residential landscapes and consisted of planted assemblages of ornamental species. Most surveyed trees were under 25 feet in height, multi-stemmed, and shrub-like in structure. A combination of neglect, ground disturbance, and heavy browsing by livestock has likely contributed to poor structure. Four dead native trees recorded on the property in previous tree inventories have since died, presumably during recent drought years.

Additional ornamental and landscape trees were observed within adjacent private properties to the west, south, and east of the Project boundary, but were not accessible and thus not mapped. These trees are well outside of potential impacts and will be protected by required mining setbacks.

2.3 General Recommendations

The proposed amended limits of disturbance include a total of approximately 233.5 acres consisting of annual grassland and seasonal wetland habitats. Of the 132 trees surveyed on the property, 62 were found to be within or immediately adjacent to (i.e., with overhanging canopies into) the proposed amended limits of disturbance and have the potential to be removed or otherwise disturbed due to Project activities (Figure 4).

A total of 20 native trees (Table 3) onsite were of a sufficient size to be regulated by the Sacramento County Tree Preservation Ordinance, were located within the proposed amended limits of disturbance, and may be impacted by the Project. For these protected native trees (Valley Oak, Goodding's Black Willow, Fremont Cottonwood, and Northern California Black Walnut) that would be directly or indirectly impacted (i.e., ground disturbance within existing driplines), Teichert will comply with the Sacramento Tree Preservation Ordinance and Sacramento General Plan Policy CO-139 and CO-146 by replacing these trees on an inch-by-inch basis or by paying contributions to the Greenprint fund, a local mitigation fund, in an amount proportional to the tree canopy of the Project. Table 3 summarizes the total potential impacts to native protected trees by the proposed Project, assuming all protected trees are impacted.

Table 3. Potential Impacts to Native Protected Trees – Aspen VIII and IX Use Permit Amendment (2024)			
Common Name	**Scientific Name**	**No. Trees**	**Total Inches DBH**
California Black Walnut	*Juglans hindsii*	9	117.2
Goodding's Black Willow	*Salix gooddingii*	4	54.2
Fremont's Cottonwood	*Populus fremontii*	1	25
Valley Oak	*Quercus lobata*	6	116.7
TOTAL:		**20**	**313.1**

Sacramento General Plan Policies address losses to mixed riparian forest canopy (Policy CO-140) and other tree canopy (Policies CO-145 and CO-146) by requiring the creation of an on-site mitigation area equal in size to the acreage of canopy lost. Table 4 below summarizes the impacts to on-site native, riparian forest/scrub canopy and non-native tree canopy. Riparian forest/scrub canopy includes all native protected species. Trees directly impacted are those within the Amendment Project Boundary. Trees indirectly impacted are those which driplines and/or root structure extend into the Boundary and could potentially be impacted by Project activities. The total native and non-native tree canopy potentially impacted by the proposed Project is approximately 0.53 acres (Table 4 and Figure 5).

Table 4. Impacts to On-Site Canopy (Acres) - Aspen VIII and IX Use Permit Amendment (2024)			
Canopy	**Directly Impacted**	**Indirectly Impacted**	**Total Direct and Indirect (Potentially) Impacted Canopy**
Riparian Forest/ Scrub	0.18	0.05	0.23
Other	0.10	0.06	0.30
			0.53

3.0 SUMMARY

A total of 62 trees, representing 0.39 acre of tree canopy, were recorded within and immediately adjacent to the proposed amended limits of disturbance. Of the trees potentially impacted, 20 are native trees (i.e., Valley Oak, Fremont Cottonwood, Goodding's Black Willow, and Northern California Black Walnut) protected by the Sacramento County Tree Preservation Ordinance, with a cumulative DBH of 313.1 inches. In addition, a total of 0.39 acre of protected native and non-native tree canopy may be impacted. Upon Use Permit Amendment approval, Teichert will decide whether to pay into the local mitigation fund or complete site mitigation internally. If performing the mitigation internally, Teichert would prepare a detailed mitigation plan addressing impacts to native protected trees and other tree canopy loss (excluding invasive species), developed in accordance with the County Ordinance, General Plan policies, and final mitigation measures for the Project. This Mitigation Plan would include the

species to be planted, planting locations and densities, planting methods, a maintenance plan (e.g., for irrigation, weeds, and herbivory), and monitoring and performance requirements.

4.0 REFERENCES

California Invasive Plant Council (Cal-IPC). 2023. California Invasive Plant Inventory. Published by the California Invasive Plant Council, February 2023.

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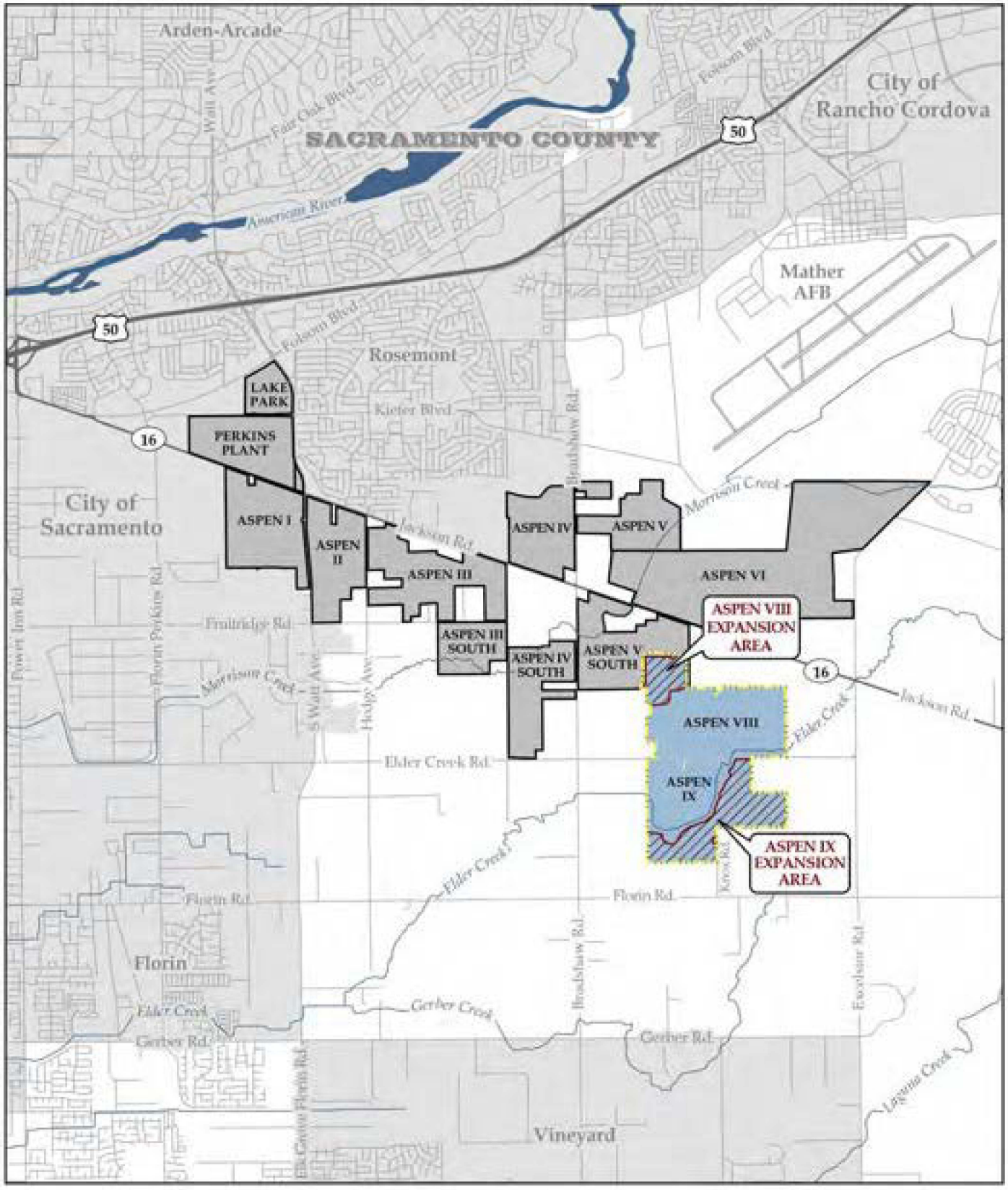
Figure 1 – Site Vicinity Map

Figure 2 –Project Site Map

Figure 3 – Existing Habitats and Wetland Communities Map

Figure 4 – Tree Survey Results Map

Figure 5 – Tree Canopy Map



TEICHERT MATERIALS

LEGEND:

- Aspen VIII & IX Expansion Areas
- Aspen VIII & IX Amendment Project Boundary
- Aspen VIII & IX Mine Area Boundary
- Teichert Aggregates Aspen Property Boundaries

0 500 1,000 Feet

DISCLAIMER:

The data was mapped for assessment purposes only. No liability is assumed for the accuracy of the data shown.

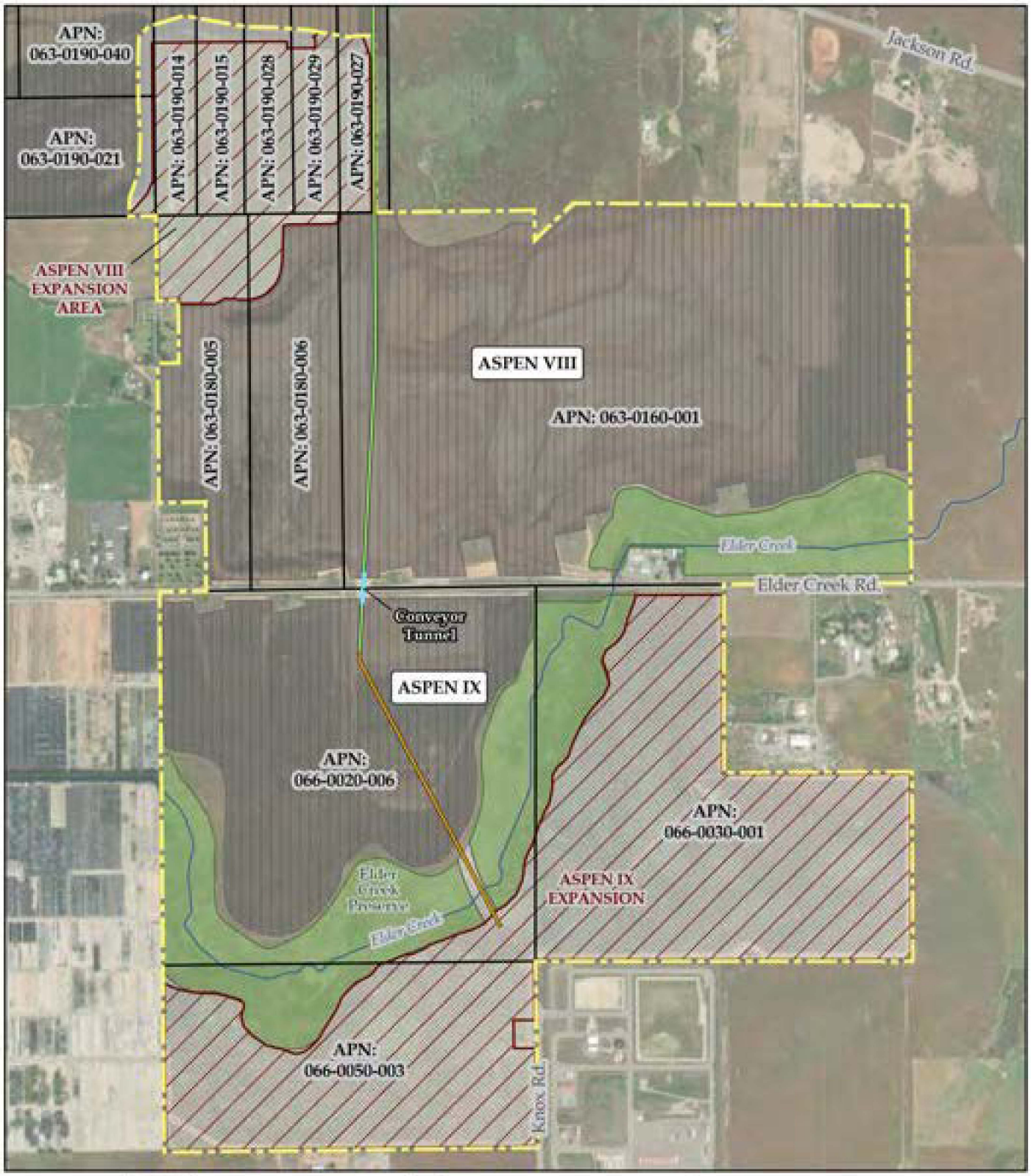
FIGURE 1

SITE VICINITY MAP

ARBORIST REPORT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C:\Cerarp\3\14\2024 ASSRAmend_ArboristLayers (Fig1_Vicinity)



TEICHERT MATERIALS

LEGEND:
- Existing Conveyor Alignment
- Proposed Conveyor Alignment
- Existing Conveyor Tunnel
- Proposed Mining Boundary
- Limits of Disturbance
- Amendment Project Boundary
- Aspen V South, Aspen VIII & IX Approved Mining Boundaries
- Parcel Boundaries

0 500 1,000 Feet

SOURCE:
Mine Plan Provided by Cunningham Engineering (March 2024)
Aerial Provided by ESRI Basemaps (Maxar: 4/26/2022)

DISCLAIMER:
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

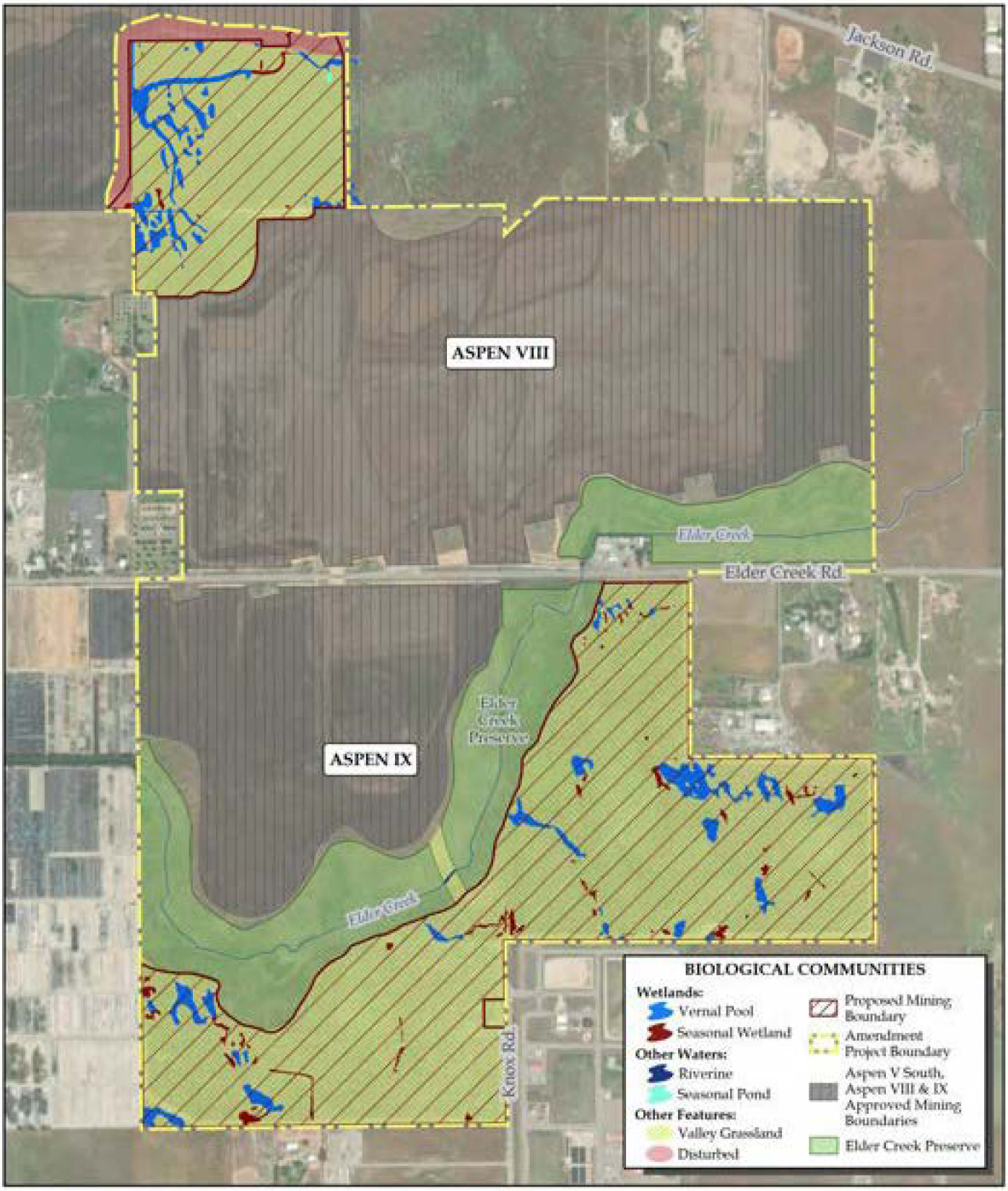
FIGURE 2

PROJECT SITE MAP

ARBORIST REPORT ASPEN VIII & IX AMENDMENT TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C:\Cenarp\3/14/2024 AS8Amend_ArboristLagrs (Fig2 Site)



TEICHERT MATERIALS

SOURCE:

Aquatic Resources Delineation Provided by EcoSynthesis (Sept. 2023)

Aerial Photography Provided by ESRI Basemaps & Affiliates (Maxar: 4/26/2022)

0 500 1,000 Feet

DISCLAIMER:

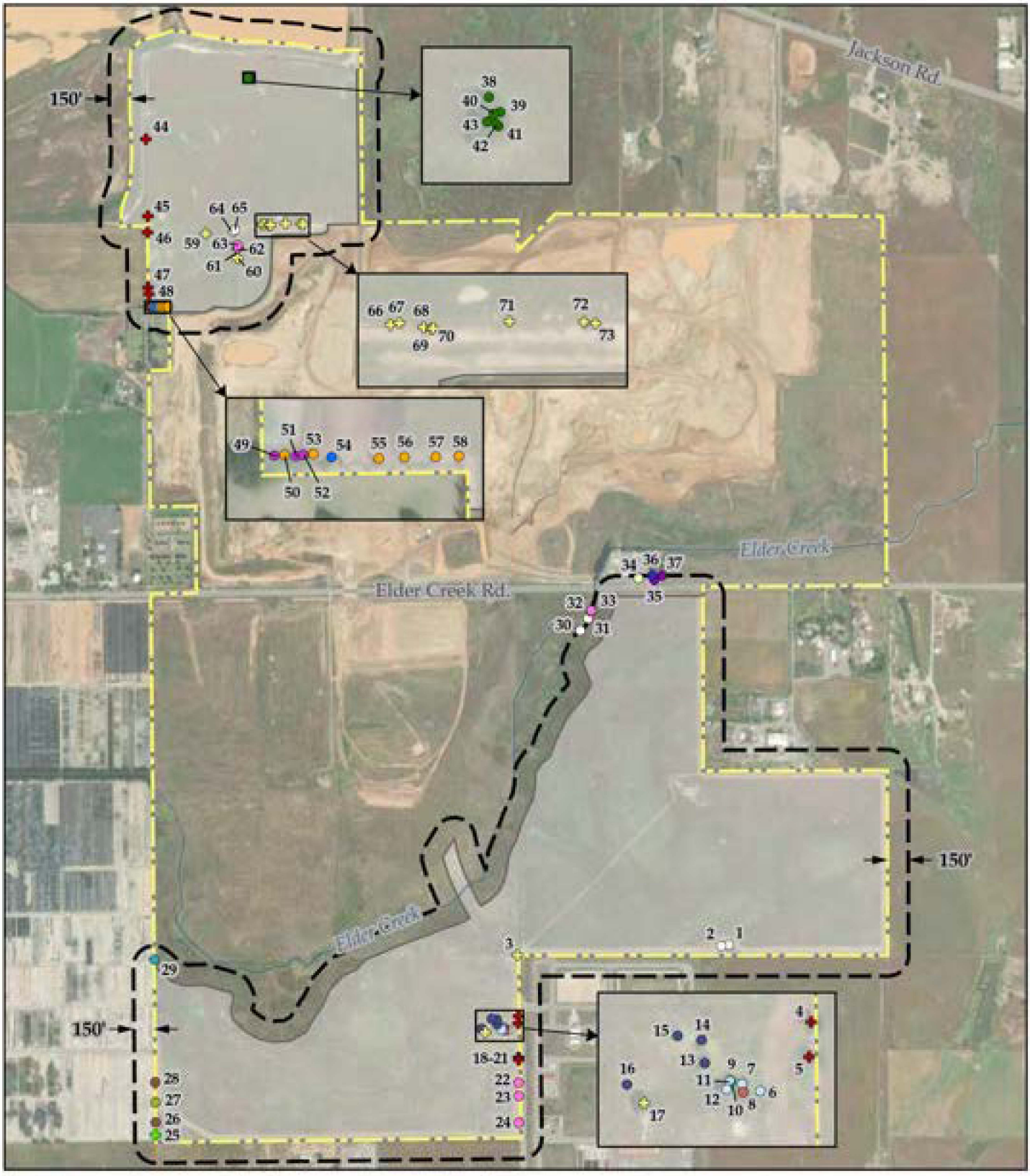
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

FIGURE 3

EXISTING HABITATS AND WETLAND COMMUNITIES

ARBORIST REPORT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS
SACRAMENTO COUNTY, CALIFORNIA

C:\Cenarp\3/14/2024 AS8&Amend_Arborist.aprx (Fig3_HabWetlands)



LEGEND:

Native Protected Species:
- Interior Live Oak
- Northern CA Black Walnut
- Valley Oak
- Arborist Survey Area
- Limits of Disturbance
- Amendment Project Boundary

Other Species:
- Citrus
- Coffeeberry
- Common Hackberry
- Edible Fig
- Fremont Cottonwood
- Goodding's Black Willow
- Italian Cypress
- London Planetree
- Mimosa
- Mt Atlas Mastic Tree
- Mulberry
- Oleander
- Olive
- Pear
- White Alder

0 500 1,000 Feet

SOURCE:
Arborist Survey (April-May 2024)
Aerial Provided by ESRI Basemaps (Maxar: 4/26/2022)

DISCLAIMER:
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

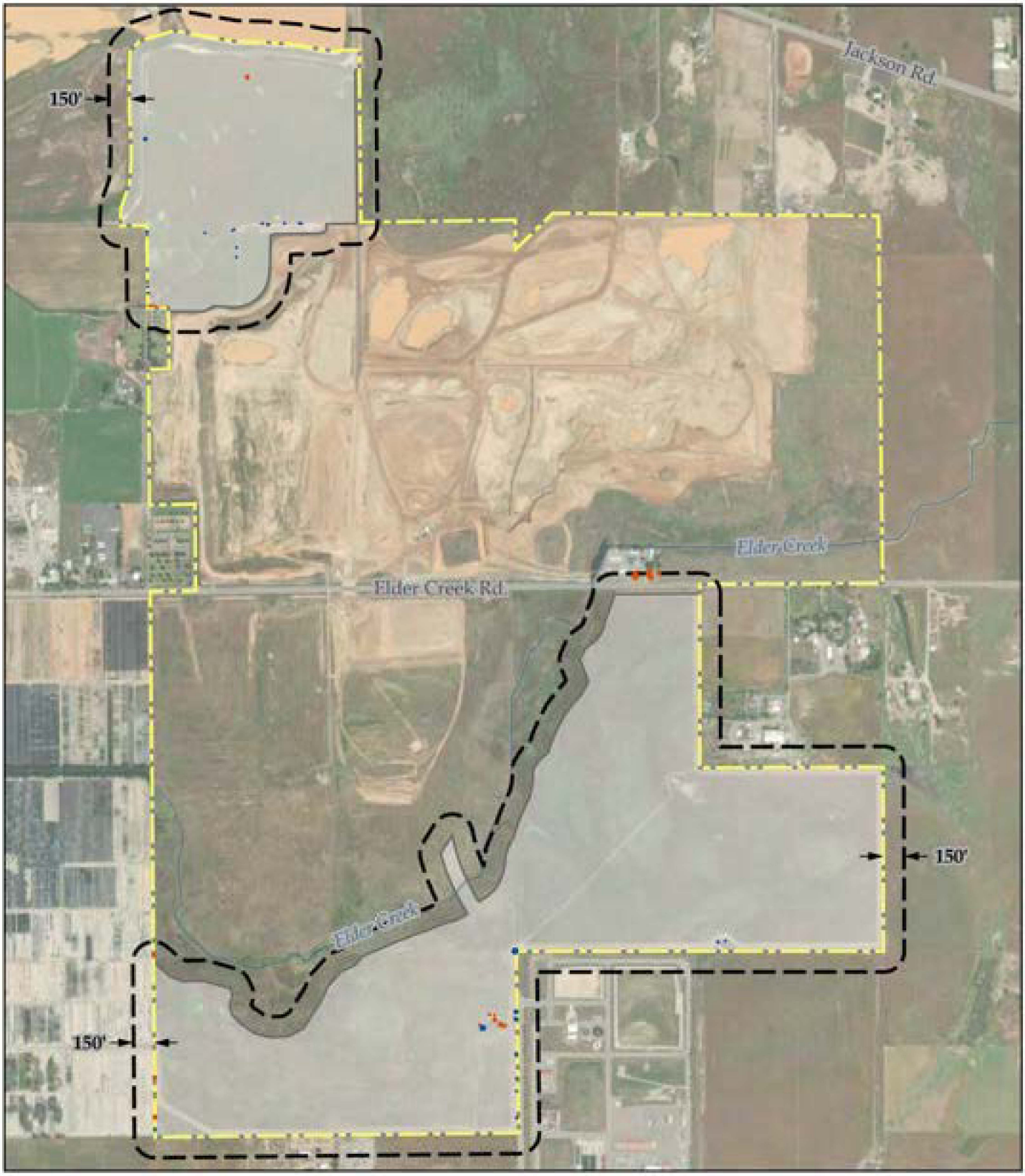
FIGURE 4

TREE SURVEY

ARBORIST REPORT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS

SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 5/14/2024 ASB9/Arborist_Arborist_Layers (Trpt_TreeSurvey)



TEICHERT MATERIALS

LEGEND:
- Riparian Forest/Scrub Canopy: ± 0.23 Acres
- Other Canopy: ± 0.3 Acres
- Arborist Survey Area
- Limits of Disturbance
- Amendment Project Boundary

0 500 1,000 Feet

SOURCE:
Arborist Survey (April/May 2024)
Aerial Provided by ESRI Basemaps (Maxar: 4/26/2022)

DISCLAIMER:
The data was mapped for planning purposes only. No liability is assumed for the accuracy of the data shown.

FIGURE 5
TREE CANOPY
ARBORIST REPORT
ASPEN VIII & IX AMENDMENT
TEICHERT MATERIALS
SACRAMENTO COUNTY, CALIFORNIA

C. Cornejo 5/14/2024 ASP8Amend_ArboristLayers (Fig5_TreeCanopy)

APPENDIX A

Teichert Aggregates – Aspen VIII and IX Use Permit Amendment
Tree Survey Data

Table A-1. Aspen VIII & IX Expansion Arborist Report - Tree Survey Data							
Tree ID#	Common Name	Scientific Name	Health	DBH (in)	No. Stems	Dripline Radius (ft)	Potentially Impacted by Project (Yes/No)
1	CA Black Walnut	*Juglans californica*	3	8.5	3	3.0	No
2	CA Black Walnut	*Juglans californica*	3	6.0	1	5.0	No
3	Black Locust	*Robinia pseudoacacia*	3	8.0	2	10.0	No
4	Black Locust	*Robinia pseudoacacia*	2	12.0	2	8.0	No
5	Black Locust	*Robinia pseudoacacia*	2	10.0	2	7.0	No
6	Black Locust	*Robinia pseudoacacia*	2	8.0	2	5.0	No
7	Black Locust	*Robinia pseudoacacia*	2	12.0	2	10.0	No
8	Black Locust	*Robinia pseudoacacia*	3	6.0	1	4.0	No
9	Black Locust	*Robinia pseudoacacia*	2	6.0	1	4.0	No
10	Black Locust	*Robinia pseudoacacia*	1	9.0	1	8.0	No
11	Black Locust	*Robinia pseudoacacia*	2	12.0	3	10.0	No
12	Black Locust	*Robinia pseudoacacia*	1	6.0	1	3.0	No
13	Black Locust	*Robinia pseudoacacia*	1	7.0	1	5.0	No
14	Black Locust	*Robinia pseudoacacia*	2	5.0	2	4.0	No
15	Black Locust	*Robinia pseudoacacia*	3	9.0	5	8.0	No
16	Red Gum*	*Eucalyptus camaldulensis*	4	17.0	1	30.0	No
17	Red Gum*	*Eucalyptus camaldulensis*	3	20.0	1	28.0	No
18	Tree of Heaven*	*Ailanthus altissima*	3	11.0	4	6.0	No
19	Tree of Heaven*	*Ailanthus altissima*	3	10.0	2	8.0	No
20	Red Gum*	*Eucalyptus camaldulensis*	1	28.5	1	20.0	No
21	Red Gum*	*Eucalyptus camaldulensis*	1	26.0	1	20.0	No
22	Ornimental Willow	*Salix matsudana*	2	12.0	6	8.0	No
23	Mulberry	*Morus spp.*	2	4.0	3	4.0	No
24	Ornimental Willow	*Salix matsudana*	2	18.0	7	8.0	No
25	Ornimental Willow	*Salix matsudana*	2	14.0	6	8.0	No
26	Chinese tallow tree	*Triadica sebifera*	0	10.0	5	0.0	No
27	Mulberry	*Morus spp.*	3	11.0	5	10.0	No
28	European Smoketree	*Continus coggygria*	3	12.0	6	8.0	No
29	Red Gum*	*Eucalyptus camaldulensis*	3	33.0	1	35.0	No
30	Shrub	*Prunus spp.*	3	6.4	3	4.0	No
31	Shrub	*Prunus spp.*	1	12.3	5	10.0	No
32	Shrub	*Prunus spp.*	3	14.1	4	8.0	No
33	Shrub	*Prunus spp.*	3	15.2	4	10.0	No
34	Shrub	*Prunus spp.*	4	4.3	2	4.0	No
35	Shrub	*Prunus spp.*	3	7.8	3	6.0	No
36	Shrub	*Prunus spp.*	3	14.3	5	10.0	No
37	Shrub	*Prunus spp.*	4	11.1	3	8.0	No
38	Tree of Heaven*	*Ailanthus altissima*	3	9.6	2	6.0	No
39	Fremont Cottonwood	*Populus fremontii*	1	4.0	1	8.0	Yes

Table A-1. Aspen VIII & IX Expansion Arborist Report - Tree Survey Data							
Tree ID#	Common Name	Scientific Name	Health	DBH (in)	No. Stems	Dripline Radius (ft)	Potentially Impacted by Project (Yes/No)
40	Fremont Cottonwood	*Populus fremontii*	3	25.0	1	10.0	Yes
41	Valley oak	*Quercus lobata*	3	47.5	1	22.0	No
42	CA Black Walnut	*Juglans californica*	3	16.3	1	16.0	Yes
43	CA Black Walnut	*Juglans californica*	3	15.8	1	13.0	Yes
44	Mimosa	*Albizia julibrissin*	4	7.2	2	8.0	Yes
45	Mimosa	*Albizia julibrissin*	1	21.3	4	6.0	Yes
46	Citrus	*Citrus spp.*	3	34.0	3	13.0	Yes
47	Mimosa	*Albizia julibrissin*	3	22.9	5	10.0	Yes
48	Mimosa	*Albizia julibrissin*	3	6.2	1	5.0	Yes
49	Mimosa	*Albizia julibrissin*	3	11.8	3	6.0	Yes
50	Mimosa	*Albizia julibrissin*	1	15.0	1	10.0	Yes
51	Pear	*Pyrus spp.*	3	33.6	5	15.0	Yes
52	Pear	*Pyrus spp.*	3	28.2	6	9.0	Yes
53	Pear	*Pyrus spp.*	2	11.6	1	9.0	Yes
54	Pear	*Pyrus spp.*	1	13.7	1	8.0	Yes
55	Valley oak	*Quercus lobata*	3	19.0	1	21.0	Yes
56	CA Black walnut	*Juglans californica*	3	7.3	2	6.0	No
57	CA Black walnut	*Juglans californica*	3	15.0	5	10.0	No
58	CA Black walnut	*Juglans californica*	3	15.6	4	8.0	No
59	CA Black walnut	*Juglans californica*	3	13.1	5	11.0	No
60	Goodding's Black Willow	*Salix gooddingii*	4	14.2	4	8.0	No
61	Goodding's Black Willow	*Salix gooddingii*	3	10.8	2	8.0	No
62	Goodding's Black Willow	*Salix gooddingii*	4	15.2	4	10.0	No
63	Goodding's Black Willow	*Salix gooddingii*	3	11.6	1	9.0	No
64	Interior Live oak	*Quercus wislizenii*	4	7.2	2	8.0	Yes
65	White Alder	*Alnus rhombifolia*	3	30.4	5	17.0	Yes
66	Coffeeberry	*Frangula tomentella*	4	9.6	4	6.0	Yes
67	White Alder	*Alnus rhombifolia*	3	27.6	4	14.0	Yes
68	Edible Fig*	*Ficus carica*	4	46.0	13	16.0	No
69	Fremont Cottonwood	*Populus fremontii*	0	31.0	1	0.0	Yes
70	Fremont Cottonwood	*Populus fremontii*	0	52.0	1	0.0	Yes
71	Goodding's Black Willow	*Salix gooddingii*	0	7.0	1	0.0	Yes
72	Goodding's Black Willow	*Salix gooddingii*	0	14.0	1	0.0	Yes
73	Olive	*Olea spp.*	3	19.9	5	12.0	Yes
74	Olive	*Olea spp.*	3	6.8	2	7.0	Yes
75	Olive	*Olea spp.*	3	12.1	3	8.0	Yes

Table A-1. Aspen VIII & IX Expansion Arborist Report - Tree Survey Data							
Tree ID#	Common Name	Scientific Name	Health	DBH (in)	No. Stems	Dripline Radius (ft)	Potentially Impacted by Project (Yes/No)
76	Olive	*Olea spp.*	3	6.7	2	7.0	Yes
77	Olive	*Olea spp.*	3	5.8	1	8.0	Yes
78	Olive	*Olea spp.*	3	21.5	5	10.0	Yes
79	CA Black walnut	*Juglans californica*	2	11.8	1	14.0	Yes
80	CA Black walnut	*Juglans californica*	0	21.5	1	0.0	Yes
81	CA Black walnut	*Juglans californica*	3	10.0	2	9.0	Yes
82	CA Black walnut	*Juglans californica*	3	8.5	2	8.0	Yes
83	CA Black walnut	*Juglans californica*	3	12.3	6	8.0	Yes
84	Valley oak	*Quercus lobata*	4	17.0	1	13.0	No
85	Oleander	*Nerium oleander*	4	4.0	1	5.0	No
86	Valley oak	*Quercus lobata*	4	16.0	1	15.0	No
87	Oleander	*Nerium oleander*	3	9.2	2	7.0	No
88	Oleander	*Nerium oleander*	3	4.0	4	6.0	No
89	Valley Oak	*Quercus lobata*	4	16.0	1	10.0	No
90	Oleander	*Nerium oleander*	3	12.0	3	8.0	No
91	Oleander	*Nerium oleander*	3	6.0	3	7.0	No
92	Oleander	*Nerium oleander*	3	6.0	5	6.0	No
93	Valley Oak	*Quercus lobata*	4	16.0	1	10.0	No
94	Oleander	*Nerium oleander*	3	10.0	4	8.0	No
95	Oleander	*Nerium oleander*	3	11.0	2	8.0	No
96	Oleander	*Nerium oleander*	3	15.0	3	8.0	No
97	Valley Oak	*Quercus lobata*	4	19.8	1	23.0	No
98	Oleander	*Nerium oleander*	3	12.0	3	8.0	No
99	Oleander	*Nerium oleander*	3	11.0	3	7.0	No
100	Italian Cypress	*Cupressus sempervirens*	3	4.0	1	2.0	No
101	Oleander	*Nerium oleander*	3	17.0	6	9.0	No
102	Oleander	*Nerium oleander*	3	15.0	5	8.0	No
103	Italian Cypress	*Cupressus sempervirens*	3	6.2	1	2.0	No
104	Mt Atlas Mastic Tree	*Pistacia atlantica*	3	8.0	2	7.0	No
105	Dawn Redwood	*Metasequoia glyptostroboides*	3	17.0	1	9.0	No
106	Dawn Redwood	*Metasequoia glyptostroboides*	2	10.0	1	8.0	No
107	Dawn Redwood	*Metasequoia glyptostroboides*	3	12.0	1	9.0	No
108	Italian Cypress	*Cupressus sempervirens*	3	9.0	1	2.0	No
109	Italian Cypress	*Cupressus sempervirens*	3	6.0	1	2.0	No
110	Italian Cypress	*Cupressus sempervirens*	3	6.0	1	2.0	No
111	Italian Cypress	*Cupressus sempervirens*	3	6.0	1	2.0	No
112	Italian Cypress	*Cupressus sempervirens*	3	8.0	1	3.0	No
113	Italian Cypress	*Cupressus sempervirens*	3	9.0	1	3.0	No

Table A-1. Aspen VIII & IX Expansion Arborist Report - Tree Survey Data							
Tree ID#	**Common Name**	**Scientific Name**	**Health**	**DBH (in)**	**No. Stems**	**Dripline Radius (ft)**	**Potentially Impacted by Project (Yes/No)**
114	Valley Oak	*Quercus lobata*	3	5.7	2	7.0	Yes
115	Valley Oak	*Quercus lobata*	2	4.0	3	6.0	Yes
116	Valley Oak	*Quercus lobata*	3	5.0	2	5.0	Yes
117	Goodding's Black Willow	*Salix gooddingii*	1	14.0	7	7.0	Yes
118	Goodding's Black Willow	*Salix gooddingii*	0	35.6	3	0.0	Yes
119	Fremont Cottonwood	*Populus fremontii*	2	4.0	1	5.0	Yes
120	Fremont Cottonwood	*Populus fremontii*	1	4.0	1	7.0	Yes
121	Valley Oak	*Quercus lobata*	3	4.0	3	4.0	Yes
122	Valley Oak	*Quercus lobata*	3	10.0	2	8.0	Yes
123	Valley Oak	*Quercus lobata*	3	12.4	2	9.0	Yes
124	Valley Oak	*Quercus lobata*	3	8.0	3	6.0	Yes
125	Valley Oak	*Quercus lobata*	3	6.0	6	4.0	Yes
126	Valley Oak	*Quercus lobata*	3	12.0	3	8.0	Yes
127	Valley Oak	*Quercus lobata*	3	15.8	2	9.0	Yes
128	Valley Oak	*Quercus lobata*	2	7.0	4	6.0	Yes
129	Common Hackberry	*Celtis occidentalis*	4	16.5	1	30.0	No
130	London Planetree	*Platanus acerifolia*	4	15.1	1	20.0	No
131	Mulberry	*Morus spp.*	4	19.7	1	25.0	No
132	London Planetree	*Celtis occidentalis*	4	12.7	1	15.0	No

ATTACHMENT D

Teichert Aspen VIII & IX Amendment Biological Resources Assessment
Aspen VIII & IX Bumble Bee Survey (2024)

1.0 INTRODUCTION

This attachment documents pollinator surveys in the Aspen Amendment Site, specifically directed toward the presence or absence of Crotch bumble bee (*Bombus crotchii*).

1.1. SUMMARY

The only one of the four bumble bee species that are candidates for listing as endangered or threatened in California that occupies a geographic range including the study site is Crotch bumble bee. Neither it nor any of the other candidates were observed within or near (within 250 feet of) the site. Only two species were observed within the site: yellow bumble bee (*B. fervidus*) and yellow-faced or vosnesenski bumble bee (*B. vosnesenskii*).

Observations are discussed in the context of records shown in Williams et al. (2014) and found in the California Bumble Bee Atlas (data located within bumblebeewatch.org) and iNaturalist (inaturalist.org). Discussion is provided on other pollinators that were observed within the site and on bumble bees that do occur on site, nearby, and more widely within Sacramento County.

2.0 METHODS

The pollinator survey was carried out by Adrian Juncosa, PhD, who has graduate-level education in entomology and four decades of experience applying that training in the field. He has completed California Bumble Bee Atlas (CABBA) training, participated in six additional bumble bee webinars and two field events with agency insect experts, and has conducted 13 CABBA-protocol surveys, documenting 14 of California's 25 bumble bee species.

Surveys within the project site were visual and photographic, not capture-based, due to delays in the permitting process. Although they require more careful observation and knowledge of range of variation, such surveys can be sufficiently definitive in the project region, because all color morphs of both male and worker bees of the sole special status bumble bee in the area (Crotch bumble bee) are quite distinctive in the context of the few other species that occur here.

Surveys were carried out by moving slowly through the landscape to patches where flowering resources that are desirable to bumble bees (that is, ones providing abundant pollen with at least some nectar) were concentrated and/or extensive. Periods of bee survey work were achieved by suspending other transect-based surveys and spending 20-30 minute periods observing only for bees in promising looking microsites (thus, alternately, not concurrently, with bird or plant survey work). These observation periods were mostly devoted to standing still waiting for bees to pass by, then moving to another spot. This method is effective where floral resources tend to be concentrated in patches of suitable soils and topography. Other habitat types where flowers are thinly and more evenly distributed might be better surveyed by continuous slow movement through the landscape.

Dates during which this kind of targeted bumble bee visual survey work occurred included April 30; May 3, 7, 19; and June 27. A total of more than 9 hours was devoted to observation solely of bees and other pollinators.

3.0 RESULTS

Nine individuals of only two bumble bee species were seen within the Amendment Site: yellow bumble bee (*Bombus fervidus*) and yellow-faced bumble bee (*Bombus vosnesenskii*). By far the preferred plant species on site for bumble bees is winter vetch, though one of the bees was observed on yellow star-thistle. Once the vetch was no longer flowering, no bumble bees were seen on site on any flower species.

Surprisingly, no pollinators at all were observed on the many large patches of hairy hawkbit (*Leontodon saxatilis*) in full flower in many parts of the site in May 2024. The overwhelmingly most abundant vernal pool forb species on the study site, navarretia (*Navarretia leucocephala*) and popcorn flower (*Plagiobothrys stipitatus*), were visited almost exclusively by small flies, especially bee flies (Bombyliidae) but also other families of flies (Syrphidae, Calliphoridae) and one small bee in the Halictidae. Honey bees and members of four other bee families (Andrenidae, Anthophoridae, Megachilidae, and one not yet indentified definitively to family) were seen on vetch and several other common flowers on site.

CABBA surveys conducted by Dr. Juncosa and others in other locations in southern Sacramento County have detected three species in all: *B. crotchii* (a candidate for state listing as threatened or endangered), *B. fervidus*, and *B. vosnesenskii*. Individual Bumble Bee Watch observations elsewhere in the county, including urbanized areas, have detected an additional three species (*B. melanopygus, nevadensis*, and *vandykei*). The record of *B. nevadensis* is outside the geographic range shown in Williams et al. (2014), but from the posted photograph appears to be correctly identified.

In summary, although Crotch bumble bee was not observed on site, it is commonly detected in the region, albeit in much lower numbers than other species.

4.0 REFERENCES

Messinger Carril, O., and J.S. Wilson. 2023. *Common Bees of Western North America*. Princeton University Press, Princeton, NJ.

Powell, J.A., and C.L. Hogue. 1979. *California Insects.* University of California Press, Berkeley, CA. (Second edition by different authors covers a similar number of species with expanded text and illustrations.)

Triplehorn, C.A., and N.F. Johnson. *Borror and DeLong's Introduction to the Study of Insects, 7th edition.* Brooks/Cole, Belmont, CA.

Williams, P., R. Thorp, L. Richardson, and S. Colla. 2014. *Bumble Bees of North America: An Identification Guide.* Princeton University Press, Princeton, NJ.

Photo 1A and 1B. Two views of the same *Bombus fervidus* bee foraging on yellow star-thistle. At left, photo shows black hair and some pollen on head and face (vs. yellow hair there in *B. vosnesenskii* which was also seen on site). Both species have the same color pattern on thorax (yellow toward the front, black elsewhere)and abdomen (one yellow stripe on T4). At right, same bee showing yellow hair on T4 segment of abdomen (vs. T3 in the generally similar species *B. vandykei*). The purpose of these photos is to illustrate that, in some geographic areas where the diversity is modest and the species have distinctive, even minor, visible differences, it is feasible to perform definitive bumble bee surveys visually, much as bird surveys are conducted.







Photo 2. No bumble bees were observed foraging on any vernal pool plant species on the study site in 2024. Most of the vernal pool pollinators on this study site were flies of several families (such as this bombyliid fly foraging on *Navarretia leucocephala*), but also included a small bee species in the Halictidae. Other species certainly use the vernal pool floral resource, but the focus of the survey was bumble bees, so those other species were not collected or identified.

ATTACHMENT E

Teichert Aspen VIII & IX Amendment Biological Resources Assessment
Aspen VIII & IX Amendment Bird Surveys (2024)

1.0 INTRODUCTION

This attachment documents special status bird surveys and opportunistic observations within the Amendment Site and surrounding potential indirect impact areas.

The following species of interest are discussed:

- Northern harrier (*Circus cyaneus*)
- White-tailed kite (*Elanus leucurus*)
- Swainson's hawk (*Buteo swainsoni*)
- Western burrowing owl (*Athene cunicularia* subsp. *hypugaea*)
- Loggerhead shrike (*Lanius ludovicianus*)
- Tricolored blackbird (*Agelaius tricolor*)

Background information on target species was derived from the South Sacramento Habitat Conservation Plan, Billerman et al. (2024), Johnsgard (1990), Kaufman (1996), and Sibley (2003).

Bird observations were made during field work on site by Adrian Juncosa from March 2023 through July 2024, using Swarovski SLC 8x30WB binoculars, supplemented by observations of birds and sign (western burrowing owl, loggerhead shrike, Swainson's hawk) by Jessica Johnston in the course of regular general and biological inspections of the Elder Creek preserve, most notably on November 18, 2024.

Field work dates included the following:

2023: March 3 and 16; July 7, 9, 17-19, 31; and August 21.

2024: April 10, 11, 30; May 1-3, 7-10, 17-19; June 27; and November 18, 2024 (Jessica Johnston).

Methods vary somewhat for the different species of interest, so this attachment is organized by species or group (raptors).

1.1. SUMMARY

In March 2023, a pair of white-tailed kites were observed exhibiting nesting behaviors in a large valley oak tree within the Amendment Site (see Photo 1; photo pages are at end of this Attachment), but by July, they were no longer present and a single Swainson's hawk seemed to be in control of the territory, being observed hunting or perched in trees near the site boundary on nearly every day of field work. In 2024, a pair of Swainson's hawks nested successfully in a tree directly above the Teichert field office, within about 170 feet of the site boundary.

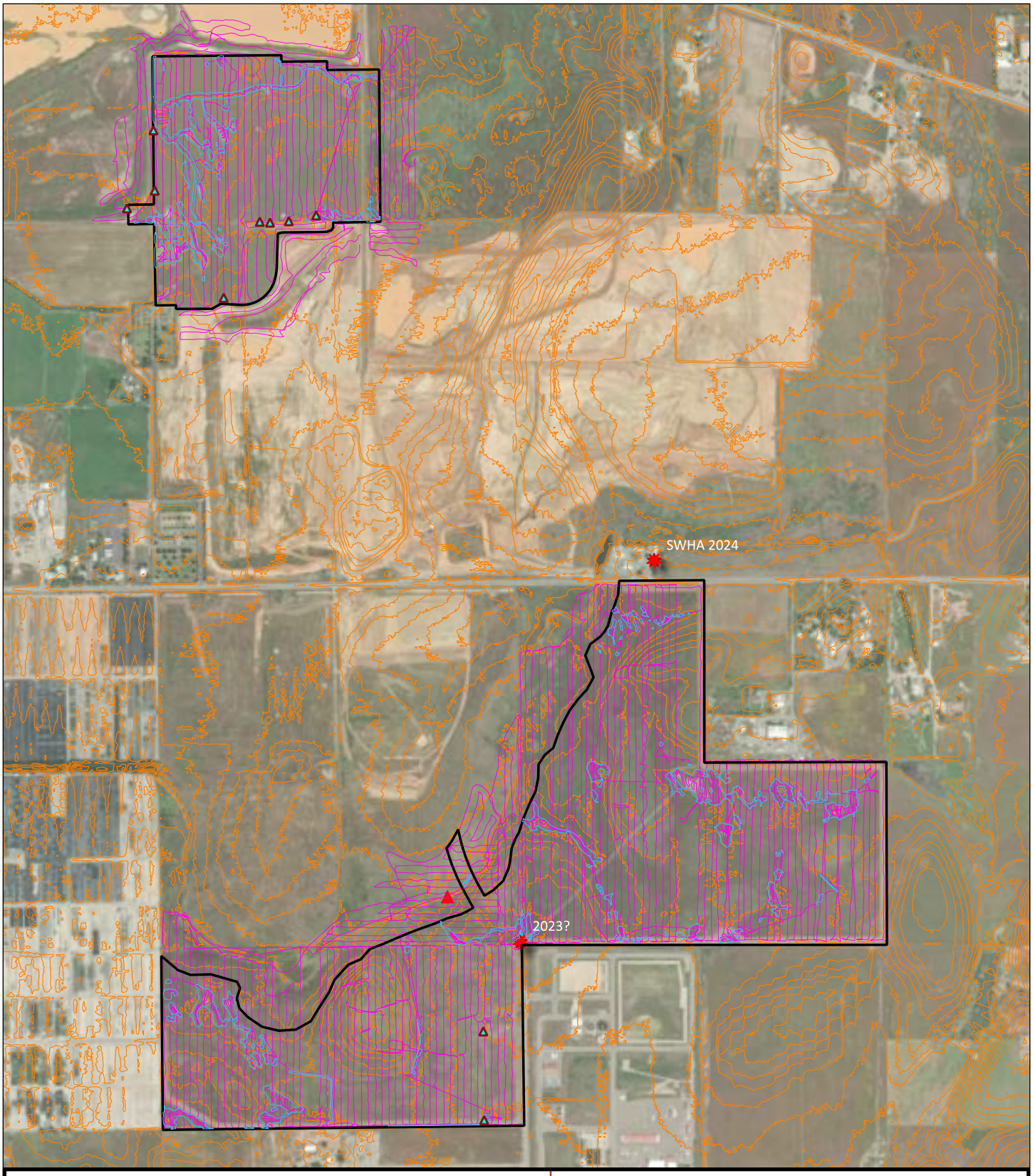
A single western burrowing owl was observed in winter (November) within the Elder Creek preserve, adjacent to the project site and within 125 feet of the conveyor crossing of Elder Creek and 155 feet of the boundary of the mining amendment site. No other burrowing owls or signs of burrow or surrogate occupation were observed anywhere within the site or a 250-foot (minimum) survey area outside it.

Individual northern harriers were observed on more than one occasion within and outside the site, but no nearby nest sites have been identified.

A loggerhead shrike was observed slightly more than 500 feet from the site boundary, but no nest site was definitively identified.

Tricolored blackbirds were observed foraging within the site in summer 2024, seemingly having arrived there from a nesting colony located west of the site (there is no habitat suitable for nesting use by this species within the site).

Figure 1 shows transects and locations of known nest sites or other relevant bird observations during the study period.



Teichert Aspen Amendment Project
Biological Resources Assessment Attachment E
Figure 1. Burrowing Owl Survey Tracks and
Swainson's Hawk Nest Trees

Scale: Approximately 1:12,000 (1"=1,000')

North

Legend

- Amendment Site boundary
- Survey tracks
- Unoccupied burrows and surrogates
- Burrow occupied by single BUOW November 2024
- Nest trees

2.0 RAPTORS AND OWL

Initial raptor observations were primarily opportunistic, that is, they were made in the course of other field work on the project site and of the daily presence of Teichert employees at the field office that is located directly across Elder Creek Road from the site's entrance gate. Subsequently, during almost every other site visit, observations were made at locations the birds had been seen previously.

One or another of all three species (northern harrier, white-tailed kite, and Swainson's hawk) was seen flying or foraging over the site on nearly every one of the 23 field visits in 2023 and 2024. Northern harrier was observed only as single birds and was never observed to roost, whereas the other two species were observed both as single birds roosting or foraging and as putative nesting pairs.

The earliest observation of any raptor species nesting behavior was in spring 2023, when a pair of adult white-tailed kites were observed in a large valley oak (see Figure 1). One of the birds remained stationary in a stick nest for long periods of time (>20 minutes), but since male and female are visually indistinguishable from a distance, it is not certain that this was a female incubating eggs. Less than two months later, and thereafter, white-tailed kites were not observed roosting in this tree at any time in 2023 or 2024. Instead, throughout the remainder of 2023, a single Swainson's hawk was observed in it, exhibiting territorial behavior.

Beginning early in 2024, a pair of Swainson's hawks were observed building or improving a nest in a tree at the Teichert field office. The pair were never seen together in the on-site valley oak nest tree in 2024 during the nesting season, but on July 16, two adults and two juveniles were observed roosting in this tree and hunting over the site. Hundreds of dead meadow mice were observed directly under the tree and elsewhere in the site, possible evidence that the adults had been successfully introducing the fledged young to hunting.

These observations are interpreted as indicating that the Amendment Site is part of a single Swainson's hawk nesting territory, with at least two alternate nest trees within or immediately adjacent to the site.

3.0 WESTERN BURROWING OWL

Study of the Amendment Site to determine whether burrowing owls nest within it or within a 250-foot radius, or nest even further but occasionally forage on site, generally followed principles provided in CDFG (2012). A major element of the relevant field work was the survey of transects over the entire site area and 250-foot radius, spaced at 50 foot intervals (or in places more closely), recording the locations of burrows or anthropogenic items such as discarded pipes that were of a suitable diameter to be used as nesting sites by burrowing owls (see Figure 1). These transects were surveyed between March 15 and April 15, 2024, and the very few suitable nest burrows were revisited in the course of other subsequent (unrelated) work on site. Weather conditions during all transect surveying were cloudless or nearly so, winds <12.5 mph, and temperatures >70 degrees F. Revisits to the very few potentially suitable nest burrows were made in early to mid-morning or mid-afternoon to sundown; each was revisited at least twice during May and June. However, given the distances that needed to be traversed and one of the important purposes of those transects (locating potentially suitable western burrowing owl nest sites in burrows or burrow surrogates), the transect surveys as a whole were not limited to the periods before 10 AM or two hours before sunset.

Teichert staff (Jessica Johnston) make regular observations of the Elder Creek preserve, which abuts the southern Amendment project parcel on its northwest side, lying between that parcel and ongoing active mining on the northwest side of the preserve. One such visit took place on November 18, 2024.

3.1. OBSERVATIONS

In the course of the transect surveys, every bird larger than about seven inches in total length that was detected was identified to species (Table 1). This included every one of the numerous mourning doves and western meadowlarks that were seen, to ensure that no bird in the approximate size class of a burrowing owl went unidentified. Thus, the transect study also served as a (partial) general bird survey although some additional birds that are much smaller than the burrowing owl size class (that is, less than 8-9 inches in overall length; e.g., sparrows and related families) probably use the site but were not identified to species and do not appear in Table 1.

Seven burrows of generally suitable opening dimensions (11 to 25 cm) for burrowing owl nesting were observed during the transect surveys. No owls or owl sign (tracks in any loose soil, large enough patches of whitewash on the soil, pellets, or feathers) were observed near any of these burrows. Three possible burrow surrogates (concrete or other material pipes, 20 cm inner diameter, 100 to 125 cm long) were found, one with a vole nest inside. Additional discussion appears below in section 3.2, and representative photographs of burrows and burrow surrogates are provided at the end of this Attachment.

During the November 18, 2024, inspection of the Elder Creek preserve, Jessica Johnston observed a western burrowing owl flying from the vicinity of a large burrow in the creek bank (see Photos 5 and 6), then walked the creek to see if any more such burrows (or owls) were present. Finding none but returning to the original burrow, she observed the same bird returning to the same spot. Whitewash is present outside the burrow opening, exactly as one sees around a site occupied by burrowing owls. Accordingly, these observations confirm winter occupation by a single western burrowing owl of a burrow within 155 feet of the main site boundary and 125 feet of the parcel spur where the conveyor crossing is proposed to be installed over Elder Creek.

This burrow was not seen during the nesting season transect surveys, including one transect walked in the bed of Elder Creek for its downstream 3,000 feet, specifically searching both creek banks because they might provide ideal burrowing owl sites if any burrows were present, and passing about 11 feet from the burrow location. Close inspection of the photographs confirms that it is a newly excavated one. Loose, more reddish-brown soil can be seen forming a shallow cone below the burrow opening, lying on top of grass stubble from the 2024 growing season and extending to cover the outer edge of the creek bed, which is scoured of loose fines every winter. No live ground squirrels were observed on site during many days of field work, although small groups of black-tailed hares (jackrabbits) were seen frequently. However, hares do not excavate burrows, so it is unclear what species excavated this one. Nevertheless, its presence indicates that some species that excavates burrows of suitable size for burrowing owl occupation is present within or near the study area. Burrowing owls prefer to nest gregariously, or if as a single pair, where multiple alternate burrows are present, so the site of observation would not be expected to be a preferred breeding site, but it is a possible one.

A small population of burrowing owls probably still occupies lands near Mather Air Force Base, and have been seen within 2023 or 2024 on the fence on the south and west side of Mather Road. It is not known whether the bird observed at Elder Creek came from the Mather vicinity or from some more distant location. Conard (cited in CBD et al., 2024) states that the number of breeding burrowing owls in Sacramento County has declined to a very low number but that additional birds are seen in winter, having come from unknown locations.

Table 1. Birds observed within the Amendment Site and surrounding areas on public or Teichert-owned lands, listed in currently generally accepted phylogenetic order; not a comprehensive survey of all birds that ever use or even nest within the site. Not all species smaller than the target special status species were sought and identified. Notes about nesting are only those species that were confirmed to do so.

Common Name	**Scientific Name**	**Notes**
Great blue heron	*Ardea herodias*	In off-site formerly mined area
Great (common) egret	*Ardea alba*	In off-site formerly mined area
Canada goose	*Branta canadensis*	
Mallard	*Anas platyrhynchos*	
Turkey vulture	*Cathartes aura*	
Northern harrier	*Circus cyaneus*	
White-tailed kite	*Elanus leucurus*	
Swainson's hawk	*Buteo swainsoni*	Nests within or near site
American kestrel	*Falco sparverius*	
Wild turkey	*Meleagris gallopavo*	
California quail	*Callipepla californica*	
Killdeer	*Charadrius vociferus*	In off-site formerly mined area
American avocet	*Recurvirostra americana*	In off-site formerly mined area
Rock dove (feral pigeon)	*Columba livia*	
Mourning dove	*Zenaida macroura*	
Western burrowing owl	*Athene cunicularia* ssp. *hypugaea*	Single wintering bird, burrow in bank of Elder Creek (off site)
Black phoebe	*Sayornis nigricans*	Seen near detention basin
Western kingbird	*Tyrannis verticalis*	
Loggerhead shrike	*Lanius ludovicianus*	Seen about 500 feet off site
American crow	*Corvus brachyrhynchos*	
Horned lark	*Eremophila alpestris*	
Cliff swallow	*Petrochelidon pyrrhonota*	
Northern mockingbird	*Mimus polyglottos*	Nests within site
European starling	*Sturnus vulgaris*	
Savannah sparrow	*Passerculus sandwichensis*	
White-crowned sparrow	*Zonotrichia leucophrys*	
Western meadowlark	*Sturnella neglecta*	
Red-winged blackbird	*Agelaius phoenicius*	
Tricolored blackbird	*Agelaius tricolor*	
Brewer's blackbird	*Euphagus cyanocephalus*	
House finch	*Carpodacus mexicanus*	

3.2. BURROWING OWL HABITAT SUITABILITY

Simplifying somewhat, CDFG (2012) identifies three main habitat requirements for burrowing owls: suitable vegetation, adequate prey resource, and presence of burrows in just the right size range to allow for owl use without admitting larger predators.

The vegetation of the site is non-native grassland with scattered trees and shrubs, mostly around the perimeter. The vast majority of this vegetation is too tall (24"+) and dense to be optimal for use by burrowing owls (impossible for a bird of the size of a burrowing owl to fly through in pursuit of prey), but patches of shorter and/or sparser grass do occur, especially in portions of the 250-foot radius off-site areas. The site was judged to be marginally suitable with respect to vegetation.

Adequate prey resource is unequivocally present, in the form of many thousands of meadow mice (voles; *Microtus* sp.), some western fence lizards, occasional garter snakes, and innumerable grasshoppers and a few other similarly large insects. Dragonflies would likely be available, at least during the season that the wetlands contain surface water. The site is highly suitable with respect to prey base.

The abundant population of meadow mice has excavated thousands of small burrows, but these are 4-6 cm in diameter, much smaller than the minimum entrance size of 11-15 cm for western burrowing owls. In all of the many site visits throughout 2023 and 2024, only one ground squirrel was ever observed: a carcass found near a large metal culvert pipe being used as a den by a family of coyotes. A total of seven burrows of suitable diameter (one observed and photographed by Jessica Johnston later than the transect survey) and four burrow surrogates (at least one probably too short, less than four feet long) were found, a very low number for the 240-acre study site (plus additional acreage within 250 feet). Importantly, except for the winter-occupied burrow (see below), no whitewash, owl pellets, tracks, or other evidence of burrowing owl occupancy was observed, and in no location were more than two or three suitable burrows found in close proximity. As explained in CDFG (2012), and possibly for multiple reasons, burrowing owls tend to nest only where alternate burrows are present nearby. Finally, burrowing owls are capable of excavating (or at least improving) burrows in friable soils for nesting use, but they rarely do so, and the surface soils on the site are almost entirely clay loam that is very sticky when wet and becomes extremely hard when dry. Accordingly, with respect to breeding opportunity, the Amendment Site was judged generally but not entirely unsuitable for nesting by burrowing owls; only the one burrow in Elder Creek exhibited signs of owl occupation (in winter only, but this burrow has not yet existed during any nesting season). Revisits after May 15 to the seven unoccupied burrows and three burrow surrogates did not reveal any burrowing owls or sign.

Although no burrowing owls were observed during many hours of survey work during the nesting season, and the almost universally tall, dense grass cover is unsuitable or not ideal for foraging, a small number of potentially usable burrows do exist, and winter occupation by one bird indicates that at least one of them is habitable by the species.

4.0 LOGGERHEAD SHRIKE

No loggerhead shrike was observed within the site on any occasion, though potentially suitable nesting habitat (a few isolated but densely foliated shrubs and trees) is present. Numerous very careful binocular observations were made of mockingbirds, which are visually very similar, but in every case the identification was confirmed as that species. However, loggerhead shrike was observed just over 500 feet outside the Amendment Site (see Figure 1), and prey was observed impaled on fence barbs at a different location but similar distance outside the site, suggesting that the bird's use of the Elder Creek Preserve area, at least, was somewhat regular.

5.0 TRICOLORED BLACKBIRD

In the course of transect surveys in the southwestern part of the northern parcel of the Amendment Site, at least 20 tricolored blackbirds were observed visiting the site, perching on perimeter fences and sometimes foraging or obtaining water within it. When flushed, they flew in a westerly or southwesterly direction to what appeared through binoculars to be suitable cattail or tule nesting habitat. This habitat was located on satellite imagery and mapped as a putative nesting colony location (Figure 1).

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Photo 1. Two white-tailed kites (arrows) in valley oak nest tree within the Amendment Site, photographed on March 16, 2023. Bird at right remained in the stick nest for prolonged periods of time. Subsequently in 2023 and 2024, kites were never seen roosting in this tree, but it was often occupied by Swainson's hawks, either singly or, in summer 2024, two adults and two juveniles (interpreted as young fledged from the tree at the Teichert field office).

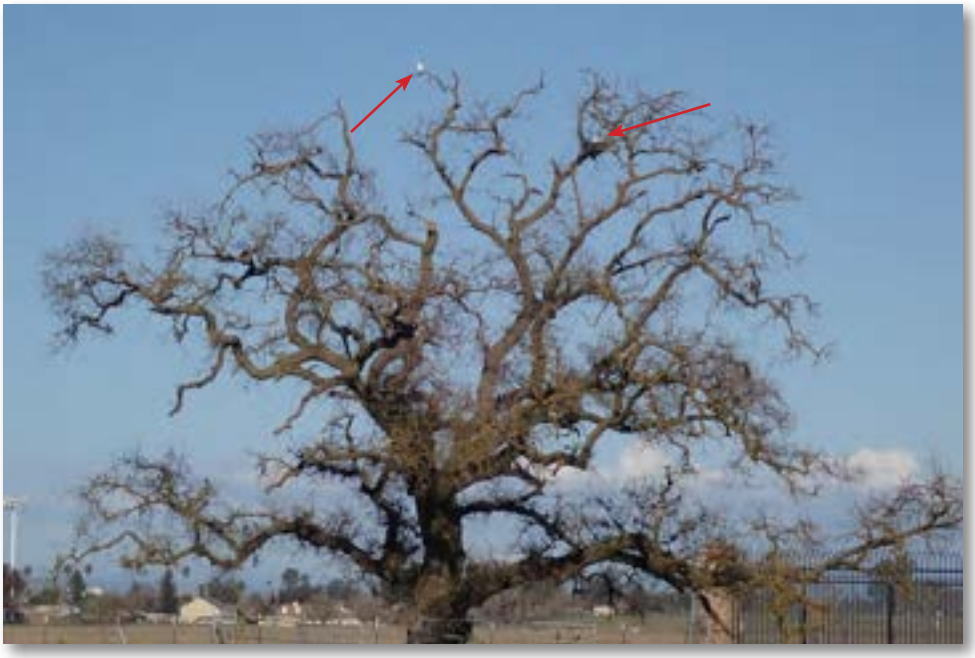



Photo 2. Burrow suitable for nesting use by burrowing owls, about 13-15 cm diameter (plastic ruler in photo is 20 cm long). No indications of such use either in the past or during the current nesting season (2024) were observed. Preferred burrowing owl nesting territory includes multiple suitable burrows in close proximity, something that was not seen on site.

Photo 3. Group of probably interconnected meadow mouse (vole) burrows. Thousands of such burrows occur on site, but they are too small (4-6 cm diameter) to be suitable for burrowing owl nesting, and the soils are not friable enough for the owls to renovate them. The rodents would be an ideal and abundant prey base if suitable burrows were present.





Photo 4. Burrow surrogate concrete pipes. These would be theoretically suitable for nesting use by burrowing owls, being about 15 cm inner diameter (albeit a bit short since they are open at both ends). Discarded pipes on site are not numerous and vary from too small (10 cm) to too large (>20 cm).

Photo 5. Side view of burrow at top of bank of Elder Creek, occupied by wintering western burrowing owl on November 18, 2024. This burrow was not seen during transects surveyed in March/April 2024, and appears to have been excavated not long before November by an unknown animal: slightly more reddish brown B horizon soil (bracket) is visible forming a cone covering grass stubble on and at the base of the bank, and extending to cover the creekbed drift (dead vegetative debris visible both up- and downstream of the soil) and the scoured edge of the bed of the creek.





Photo 6. Closer view into burrow shown in Photo 5. Pattern of whitewash next to burrow is characteristic of occupations by a burrowing owl, and the bird was observed and definitively identified as using this burrow.

ATTACHMENT F

Teichert Aspen VIII & IX Amendment Biological Resources Assessment
Aspen VIII & IX Amendment Bat Habitat Assessment (2024)

SEQUOIA
Ecological Consulting, Inc.

Date: June 15, 2024

To: Jessica Johnston | Project Coordinator
Triangle Properties, Inc.
10151 Elder Creek Road
Sacramento, CA 95829

From: Scott Newton | Project Biologist
Sequoia Ecological Consulting, Inc.

Kimberly Oldehoeft | Biologist / Project Manager
Sequoia Ecological Consulting, Inc.

RE: **Bat Habitat Assessment**
Aspen VIII & IX Use Permit Amendment
Sacramento County, California

1.0 INTRODUCTION

This report provides the results of Sequoia Ecological Consulting, Inc.'s (Sequoia) bat habitat assessment performed in support of Teichert's Aspen VIII & IX Use Permit Amendment Project (Project). The objectives of this assessment were to:

- Satisfy the requirements of South Sacramento Habitat Conservation Plan Avoidance and Minimization Measure BAT-1: Maternity Roost Surveys (See Section 2.3 below);
- Characterize potential habitat on site that meets the requirements of South Sacramento Habitat Conservation Plan (SSHCP) Covered Species;
- Characterize potential habitat on site that meets the requirements of special-status species, per the California Environmental Quality Act (CEQA);
- Recommend year-round avoidance and minimization measures that are compliant with CEQA and SSHCP to avoid impacts on all special-status bat species.

Below we provide a brief overview of the Project, discuss legal protections of bats, and provide our survey methods and results.

2.0 PROJECT OVERVIEW

The Project involves the following:

- Expansion of the mine boundary to allow for continued surface mining on adjacent lands previously not identified for mining.
- Amendment of Condition of Approval 6 to permit the use of an electronic conveyor system.
- Amendment of Condition of Approval 7 to extend the permit term to December 31, 2046.

- Amendment of Condition of Approval 17 regarding embankment and slope design adjacent to Elder Creek in the Aspen IX South expansion area.

3.0 LEGAL PROTECTIONS

Protected bat species include species that have been formally listed, are proposed as endangered or threatened, or are candidates for listing under the Federal Endangered Species Act or California Endangered Species Act. Additionally, the California Department of Fish and Wildlife (CDFW) designates special-status species as Species of Special Concern (SSC) and California Fully Protected species. Bat species are further evaluated for conservation status by the Western Bat Working Group (WBWG), a non-governmental entity. WBWG-designated bats of "High Priority" or "Medium Priority" for conservation by the WBWG are typically considered special-status and considered under CEQA. WBWG designates priority based on ecoregions, and the project area is within Ecoregion 5.

California Environmental Quality Act (CEQA)

CEQA (§§ 21000-21177) requires State agencies, local governments, and special districts to evaluate and disclose potential environmental impacts of proposed projects. In addition to state- and federally- listed species, CEQA Guidelines §15380 states that SSCs should be included in analysis of project impacts if they can be shown to meet certain sensitivity criteria. CEQA Guidelines §15063 and §15065 describe criteria to determine the significance of project impacts. When there are significant potential project impacts to listed species, CEQA requires a specific analysis such as an Environmental Impact Report. Additionally, Appendix G of the CEQA Guidelines provides significance criteria to determine significance of project-related impacts which include "…imped(ing) the use of native wildlife nursery sites". If project impacts are determined to be significant to SSCs or their nursery sites, the analysis typically addresses population-level effects, proportion of the taxon's range affected by a project, regional effects, and impacts to habitat features.

Three SSC bats that are subjected to CEQA considerations have potential to be present within the project area: pallid bat (*Antrozous pallidus)*, Townsend's big-eared bat (*Corynorhinus townsendii*), and western red bat (*Lasiurus frantzii*).

California Fish and Game Code

Roosting bats, or more generally bats, are classified as nongame mammals, which are listed under California Fish and Game Code (CFGC) §4150: "A mammal naturally occurring in California that is not a game mammal, fully protected mammal, or fur-bearing mammal, is a nongame mammal. A nongame mammal may not be taken or possessed except as provided in this code or in accordance with regulations adopted by the commission." Under this code, take of bats is prohibited which includes harassment, harm, capture, or kill of any individual.

Five bat species that are protected by CFGC §4150 have potential to be present within the project area and are: pallid bat, Townsend's big-eared bat, silver-haired bat (*Lasionycteris noctivagans*), hoary bat (*Lasiurus cinereus*), and western red bat.

South Sacramento Habitat Conservation Plan

The SSHCP is a regional effort providing development and infrastructure projects with streamlined federal and state permitting processes. It also creates a Preserve System to protect habitat, open space, and agricultural lands. Via the SSHCP, local Land Use Authority Permittees are given the ability to extend incidental take coverage provided by the SSHCP ITPs to activities and projects implemented by Third-Party Project Proponents. This expedites Third-Party Project Proponents negotiation and processing involved in obtaining individual project permits the state and federal Endangered Species Acts. The Plan provides take authorization for 28 Covered Species. Covered Species were selected for based on potential to occur within the SSHCP area, potential to be adversely affected by Covered Activities as described in the SSHCP, availability of information to adequately evaluate impacts to the species, and ability to adequately protect the species. The SSHCP includes conservation actions to protect all 28 Covered Species regardless of listing status.

The Project is entirely within the SSHCP coverage area. Western red bat is the only SSHCP Covered bat species, and large portions of project footprint are included in SSHCP modeled habitat. The following avoidance and minimization measures are required by the SSHCP for western red bat but should be applied to all special-status bats within the project site.

SSHCP Avoidance and Minimization Measures for Western Red Bat

SSHCP AMM BAT-1 (Maternity Roost Surveys): *If modeled habitat (Figure 4) for western red bat is present within 300 feet of a Covered Activity's project footprint, and a Covered Activity is proposed between May 1 and August 31 (when pre-flight/nursing young may be present), then an approved biologist will conduct a field investigation of the project footprint and adjacent areas within 300 feet of the project footprint to determine if a potential maternity roost is present, and to identify and map potential maternity roost sites. Adjacent parcels under different land ownership will be surveyed only if access is granted or if the parcels are visible from authorized areas. If potential maternity roost sites are found, the Third-Party Project Proponent will note their locations on project designs and will design the project to avoid all areas within a 300-foot buffer around the potential maternity roost sites. As discussed in AMM BAT-3, maternity roost habitat is fully avoided if project-related activities do not impinge on a 300-foot buffer established by the approved biologist around an existing or potential maternity roost site. See Chapter 10 [of the SSHCP] for the process for Covered Activity projects to conduct and submit project survey information.*

SSHCP AMM BAT-2 (Maternity Roost Pre-Construction Surveys): *If the Third-Party Project Proponent elects not to avoid potential maternity roost sites within the project footprint plus a 300-foot buffer during May through August, additional western red bat surveys are required. Prior to any ground disturbance related to Covered Activities or staging of equipment in the project footprint, an approved biologist will conduct a pre-construction survey within 3 days of ground-disturbing activities (within the project footprint and 300 feet of the project footprint) to determine the presence of maternity roost sites. Pre-construction surveys will be conducted during the roosting season when pre-flight/nursing young may be present (May 1 through August 31). If a maternity roost is present, then AMM BAT-3 shall be implemented. The approved biologist will inform the Land Use Authority Permittee and SSHCP*

Implementing Entity (the South Sacramento Conservation Agency) of all roost sites and species locations, and they in turn will notify the Wildlife Agencies (USFWS and CDFW), and provide all survey information to the Wildlife Agencies.

SSHCP AMM BAT-3 (Maternity Roost Buffer): *If active maternity roost sites are found within the project footprint or within 300 feet of the project footprint between May 1 and August 31, the Third-Party Project Proponent will establish a 300-foot temporary disturbance buffer around the active maternity roost site until bats have vacated the roost and the Wildlife Agencies concur that the roost is vacant.*

Very few western red bats are expected to be present in the Action Area in the winter months (November 1 through March 31). However, if active winter hibernaculum sites are found within the project footprint or within 300 feet of the project footprint between November 1 and March 31, the Third-Party Project Proponent will establish the same 300-foot temporary disturbance buffer around the active winter hibernaculum site until bats have vacated the hibernaculum and the Wildlife Agencies concur that the hibernaculum is vacant.

SSHCP AMM BAT-4 (Bat Eviction Methods for Non-Maternity and Non-Hibernaculum Roosts): *An approved biologist will determine if non-maternity and non-hibernaculum day and night roosts are present on the project site. If direct impacts to non-maternity and non-hibernaculum day and night roosts cannot be avoided, the Third-Party Project Proponent will prepare a bat eviction plan and inform the Land Use Authority Permittee and the SSHCP Implementing Entity (the South Sacramento Conservation Agency). They in turn shall inform the Wildlife Agencies and provide the bat eviction plan for review. If necessary, the approved biologist may be allowed to remove the bats using safe-eviction methods acceptable to the Wildlife Agencies.*

4.0 METHODS

Prior to conducting the habitat assessment, Sequoia reviewed relevant databases and literature to gather baseline information on the potential occurrence of bat species and the presence of suitable habitat on the project site and its immediate vicinity. The review included the following sources:

- SSHCP western red bat modeled habitat and occurrence data
- Aerial photographs (Google Earth 2024)
- CDFW CNDDB 9 Quad Element List (CNDDB 2024)

Sequoia's habitat assessment covered expansion portions of Teichert's existing mining sites at Aspen VIII and an undeveloped site at Aspen IX in unincorporated Sacramento County, California (Figures 1 and 2). This reconnaissance-level survey was conducted to locate any potential day or night bat roosting/maternity sites and to evaluate the potential for bat foraging and roosting activity within the project footprint and a 300-foot buffer of project site boundaries (Figure 3). Areas of interest included tree roosts, crevices, and cavities.

Sequoia qualified biologist, Scott Newton, conducted surveys on the project site on May 24, 2024, to document biological resources related to bat species. Surveys involved walking meandering transects

with binoculars throughout the project area, including a 300-foot buffer for roosting bats, stopping frequently to search all on-site bat habitat for bat sign (bats, guano, urine and body oil staining, desiccated placentas, insect parts) that may indicate roosting activity (Figure 3). The survey included an inspection of all visually accessible, potential roosting features (e.g., cavities, crevices in wood and bark, exfoliating bark for colonial species, suitable canopy for foliage roosting species). All potentially suitable habitat and potential maternity roost sites were recorded utilizing ESRI ArcGIS Field Maps during the survey. Sequoia cross-referenced the habitats occurring on the project site with the habitat requirements of regional special-status bats to determine if the proposed project could directly or indirectly impact these species.

5.0 REGIONAL SPECIAL-STATUS BAT SPECIES

Based on a desktop review, five special-status bat species have potential to occur within the survey area: pallid bat, Townsend's big-eared bat, silver-haired bat, hoary bat, and western red bat. None are formally listed under state or federal Endangered Species Acts but all are considered either SSC by CDFW and/or are ranked medium to high priority by WBWG. Maternity roost habitat requirements are summarized for all five species in Table 1.

Table 1. Roosting Substrate Usage by Local Bat Species

Species	Foliage	Crevice and Crack	Cavity
pallid bat		X	X
Townsend's big-eared bat			X
silver-haired bat		X (Trees only)	X (Trees only)
hoary bat	X		
western red bat	X		

5.1 Pallid Bat

Pallid bat is a CDFW SSC and a WBWG species of "High Priority" in Ecoregion 5. It is a social species and is locally common throughout much of California (Harris 2004). It is distributed in low elevation (<6,000 feet) rocky arid deserts and canyonlands, shrub-steppe grasslands, karst formations, and higher elevation coniferous forests (>7,000 feet) (Sherwin and Rambaldini 2005). It will use multiple roosting substrates including anthropogenic structures and crevices and cavities of snags and trees. While finding a pallid bat roost is easy in man-made structures, roost detection in tree cavities is difficult to impossible. For foraging, it prefers open grasslands where it hunts mainly along the ground or foliage for invertebrate prey including crickets, grasshoppers, centipedes, and scorpions. Maternity colonies and hibernating bats are especially susceptible to disturbance (Ferguson and Azerrad 2004).

5.2 Townsend's Big-Eared Bat

Townsend's big-eared bat is a CDFW SSC and a WBWG species of "High Priority" in Ecoregion 5. It is typically found in desert scrub and pine forest regions but is considered present locally throughout California (Harris 2000). Habitat associations include coniferous forests, mixed meso-phytic forests, deserts, native prairies, riparian communities, active agricultural areas, and coastal habitat types

(WBWG 2024). This species requires large cavities, or cave analogs, with low disturbance for roosting, and it is consequently restricted in its range. In coastal California, abandoned or rarely used anthropogenic structures with stable internal environments often fit this habitat requirement. The diet of this species consists mainly of moths and small insects. This species is extremely sensitive to roost disturbance and has been documented abandoning maternity roosts when disturbed (Washington State Department of Fish and Wildlife 2018).

5.3 Silver-Haired Bat

Silver-haired bat is a WBWG species of "Medium Priority" in Ecoregion 5. Widely distributed throughout North America, this species is strongly associated with forest habitats, primarily within temperate conifer and conifer-mixed hardwood forest habitats. During colder months, the species is sometimes found in low elevation dry climates. It is a tree cavity and tree crevice roosting bat, with recorded maternity colonies of up to 70 individuals. Roost locations are generally easier to detect than foliage roosting bats due to the potential for an observer to witness an aggregation of silver-haired bats flying from a tree over a short period of time during an evening feeding emergence. They feed primarily on moths over riparian areas and tree canopies (WBWG 2024). Predators include birds, raccoons, and opossums.

5.4 Hoary Bat

Hoary bat is a WBWG species of "Medium Priority" in Ecoregion 5. Widely distributed throughout North and South America, they are highly associated with forested habitats in the west. It is a solitary, migratory bat that roosts, maternity or otherwise, in the foliage of mature deciduous and coniferous trees 10-40 feet above ground, typically near the edge of a clearing. Due to the cryptic coloration and roosting position (hanging by one foot from a leaf petiole), roost detection for this species is practically impossible. This insectivorous species prefers moths but will consume beetles, flies, grasshoppers, termites, dragonflies, and wasps. Reported predators include jays, kestrels and snakes, and likely include hawks and owls as well (WBWG 2024).

5.5 Western Red Bat

Western red bat is a CDFW SSC, a WBWG species of "High Priority" in Ecoregion 5, and a SSHCP Covered Species. Widely distributed throughout North and Central America, this species prefers riparian habitat, particularly trees such as cottonwood, ash, elder, mulberry, and oak. It is a foliage-roosting bat, almost exclusively utilizing leafy foliage on trees and large shrubs for roosting, maternity or otherwise. It is also known to roost in orchard trees, especially nut trees. It is one of a few bat species that gives birth to multiple pups and exhibits high roost fidelity (Pierson et al. 2004). It hangs within foliage in a location that allows for easy flight in and out of the roost while also being difficult to access by predators (Pierson et al. 2004). Due to the cryptic coloration and roosting position (hanging by one foot from a leaf petiole), roost detection for this species is practically impossible. Predators include birds (e.g., scrub jays, falcons, accipiters, owls, roadrunners), opossums, and domestic cats (WBWG 2024).

6.0 SURVEY RESULTS AND DISCUSSION

Two adjacent areas are proposed for expansion: Aspen VIII proposed expansion area is south of Jackson Road and north of Elder Creek Road; Aspen IX is south of Elder Creek Road. Both Aspen VIII and Aspen IX are relatively flat and open rolling habitat with scattered trees and large shrubs. Aspen VIII is an active mine; consequently, much of the woody vegetation has been cleared from the survey area. However, an area in the western survey buffer provides a barn and several trees that are potentially suitable roosting habitat. Aspen IX retains shrubs throughout the site and has scattered trees along the study boundary. Along Elder Creek Road and south into Aspen IX, scattered suitable roosting habitat exists along the eastern and southern edge of the Aspen IX boundary and into the buffer that could support bats maternity roosts. SSCHP-modeled western red bat habitat covered most of the study area (Figure 4).

Open water resources were observed in three locations (Figure 5, Attachment B: Photos 6, 12, and 29). Running through Aspen VIII and IX, Elder Creek was dry except where it is ponded just west of the Triangle Headquarters. The pond provides an open water source for bats who require water for drinking and for hunting. Another feature within the eastern buffer extending east of Aspen IX, an approximately 7-acre natural ponding feature potentially provides perennial water.

Three types of potential bat maternity roosting habitat were observed within Aspen VIII and IX study areas: foliage, crevice, and cavity. Potential roosts were scattered along the edge of the project boundary and within the 300-foot buffer (Figure 5). Where potential bat maternity roosting habitat occurred, potential foliage roosting habitat was common; potential cavity and crevice roosting habitat was also present in a few locations.

While suitable maternity roosting habitat is present for pallid bat, hoary bat, and western red bat, the quality may be diminished in areas adjacent to Elder Creek Road. Pallid and Townsend's big-eared bat maternity roosts are particularly sensitive to human disturbance. Additionally, the presence of known bat predators such as Swainson's hawk (*Buteo swainsoni*) and other raptors nesting and hunting in the project vicinity could reduce the quality of potential maternity roost sites at specific locations described in the results of this survey (Pierson et al. 2004).

No suitable maternity roost habitat for silver-haired bat or Townsend's big-eared bat was observed in the survey area. Furthermore, the open grassland habitat with sparsely distributed trees represents poor-quality roosting and foraging habitat for these two species. While neither bat species is likely to be present due to lack of preferred habitat, it is not uncommon for bats to be displaced into unusual places through weather events or migration. The avoidance and mitigation measures within this report would protect these and any special-status bat species utilizing the project site.

6.1 Foliage Roosting Habitat

Potentially suitable foliage roosting habitat (e.g., Attachment B: Photo 5) was scattered along the northern, eastern, and southeastern boundary of Aspen IX within the 300-foot buffer, and in the trees in the western of Aspen VIII survey area. Trees and shrubs providing suitable foliage included roadside shrubs, blue gum (*Eucalyptus globulus*), a copse of medium-sized valley oaks (*Quercus lobata*), 40-foot-

tall valley oak, walnut (*Juglans* spp.), acacia (*Acacia* spp.), and citrus (*Citrus* spp.), and other ornamental tree species. Many trees and shrubs were within 100 feet of anthropogenic structures such as a road, building, or parking lot including some trees next to Triangle office buildings. Trees and shrubs within proximity to Elder Creek Road are likely significantly impacted by light and noise from nighttime traffic to provide habitat preferred by foliage roosting bats. Some trees and shrubs were noted as areas where foraging raptors may more easily locate and consume foliage roosting bats. Raptors, raptor whitewash, and an active raptor nest were all observed within specific locations within the survey boundary during the field visit. The available foliage on Aspen IX provided potential maternity roosting habitat for hoary bat and western red bat (Figure 5).

6.2 Crevice Habitat

Crevices suitable for maternity roosting habitat (e.g., Attachment B: Photo 8) were uncommon or undetectable through visual surveys due to being located outside of the Teichert property on adjacent land parcels. Six locations were identified as providing potentially suitable crevice roosting structure in the form of exfoliating bark and split trunks and limbs. These structures included a cottonwood snag (*Populus* sp.), valley oak, and a large barn. One barn is located within the south-central buffer of Aspen IX and another barn in the western buffer of Aspen VIII. Crevices are a preferred maternity roosting habitat for pallid bats.

6.3 Cavity Habitat

Few potential cavity roosts (e.g., Attachment B: Photo 20) were observed within the survey area, and only a couple provide potentially suitable roosting habitat for pallid and Townsend's big-eared bat. Anthropogenic structures within the 300-foot buffer include a barn south of Aspen IX, a barn in the western buffer of Aspen VIII, and buildings around the Triangle Office. A Quonset hut on the northern edge of the study area by the Triangle Office is positioned directly next to Elder Creek. Guano deposited on the east wall of the Quonset hut just below a window frame was potential evidence of a night roost (See Attachment B: Photo 30). Because pallid and Townsend's big-eared bats are susceptible to disturbance by human activities, cavity roosting habitat on site is considered low quality due to high levels of human disturbance. It is likely that the barn west of Aspen VIII and south of Aspen IX provide potential cavity roosting habitat.

7.0 RECOMMENDED MITIGATION MEASURES

Results of this bat maternity roost habitat assessment within the project footprint and 300-foot buffer determined that potential maternity roost habitat is present for special-status bat species. If project covered activities are proposed during the bat maternity season (May 1 and August 31), avoidance and mitigation measures shall be incorporated. This survey satisfies the requirements of SSHCP AMM BAT-1: Maternity Roost Surveys (Section 2.3). If project activities cannot avoid work within the 300-foot buffer within the maternity season, then SSHCP AMM BAT-2: Maternity Roost Pre-Construction Survey shall be implemented. If an active maternity roost or hibernaculum site is detected, then SSHCP AMM BAT-3: Maternity Roost Buffer shall be implemented. This requires a 300-foot protective buffer within which no work can occur. These 300-foot buffers shall be placed around active maternity roost sites between May

1 and August 31 or around hibernaculum between November 1 and March 31. In the case that a bat is detected which has been determined by an approved biologist to be non-maternity and non-hibernaculum day and night roosts, then SSHCP AMM BAT-4 applies. This measure allows the project proponent to develop a bat eviction plan for agency review, and once approved the plan can be implemented to evict bats for the purpose of avoiding project impacts.

In addition to the avoidance and minimization measures described in the SSHCP which should be applied to all special-status bats in the project impact area, the following measures are recommended to avoid impacts to bat maternity roosts and hibernacula.

AMM BAT-5 (Survey Specifications): If suitable roosting habitat for special-status bats will be affected by project construction (e.g., removal or buildings, modification of bridges), a qualified wildlife biologist will conduct surveys for special-status bats during environmental conditions suitable for bats to forage, and the appropriate time of day or night to maximize detectability to determine if bat species are roosting near the work area no more than three days prior to beginning ground disturbance and/or construction. Species-specific survey methodologies may include visual surveys of bats (e.g., observation of bats during foraging period), inspection for suitable habitat, bat sign (e.g., guano), spotlighting, or use of ultrasonic detectors (e.g., Anabat, etc.). Visual surveys will include structures within 300 feet of project disturbance. The type of survey will depend on the potential roosting habitat.

AMM BAT-6 (Passive Detection): If there is evidence of bat presence, the number and species of bats using the roost will be determined. Passive bat echolocation recorders or other bat detectors may be used to supplement survey efforts. Recorders will be stationed for 7-10 nights within 300 feet of potential bat maternity roosts. A qualified biologist will review the recordings and estimate species and quantity of bats present. If no or very few randomly timed bat calls are detected, potential bat maternity roosts sites may be considered inactive within 300 feet of the bat recorder.

AMM BAT-7 (Exclusion Specifications): If roosts are determined to be present and must be removed, the bats will be excluded from the roosting site before the facility is removed. A mitigation program addressing compensation, exclusion methods, and roost removal procedures will be developed prior to implementation. Exclusion methods may include use of one-way doors at roost entrances (i.e., bats may leave, but not reenter), or sealing roost entrances when the site can be confirmed to contain no bats. Exclusion efforts may be restricted during periods of sensitive activity (i.e., during hibernation or while females in maternity colonies are nursing young).

AMM BAT-8 (Tree Removal): Tree removal is not recommended. However, if any trees providing potentially suitable maternity habitat must be removed, modify all phases/aspects of the project to the extent practicable to avoid tree removal beyond what is required. Tree removal will be restricted to the appropriate time of year when neither maternity roosts nor hibernacula are occupied. Prior to tree removal, AMM BAT-5: Passive Detection will be conducted. If no bats are observed, then tree removal may occur the following day. If bats are observed, then tree removal will be postponed until bats are no longer present.

AMM BAT-9 (Compensate for loss of habitat): If removal of trees or other roosts cannot be avoided, install elevated bat houses outside of, but near, the construction area. Placement and height will be determined by a qualified wildlife biologist, but the height of bat house will be at least 15 feet. Bat houses will be multi-chambered and will be purchased or constructed in accordance with CDFW standards. The number of bat houses required will be dependent upon the species and quantity of bats detected. At a minimum, one bat house will be installed for each pair of bats (if solitary), or of sufficient number to accommodate each colony of bats affected.

8.0 CONCLUSION

Within 300 feet of the Aspen VIII and IX proposed expansion areas, primarily trees provide roosting opportunities for foliage roosting bats. There are few opportunities for crevice roosting bats within the trees; one building in the survey area provides cavity potential roosting opportunities. Any ground or vegetation disturbance within the surveyed area should take precaution to avoid impacting potential bat maternity roosts. We recommend augmenting the SSHCP Avoidance and Minimization Measures for bat species with additional measures described herein.

If you have any questions or concerns regarding this report, please do not hesitate to contact me at the email or phone number listed below. Thank you for the opportunity to support you on this Project.

Sincerely,

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SEQUOIA
Ecological Consulting, Inc.

Attachment A

Figures

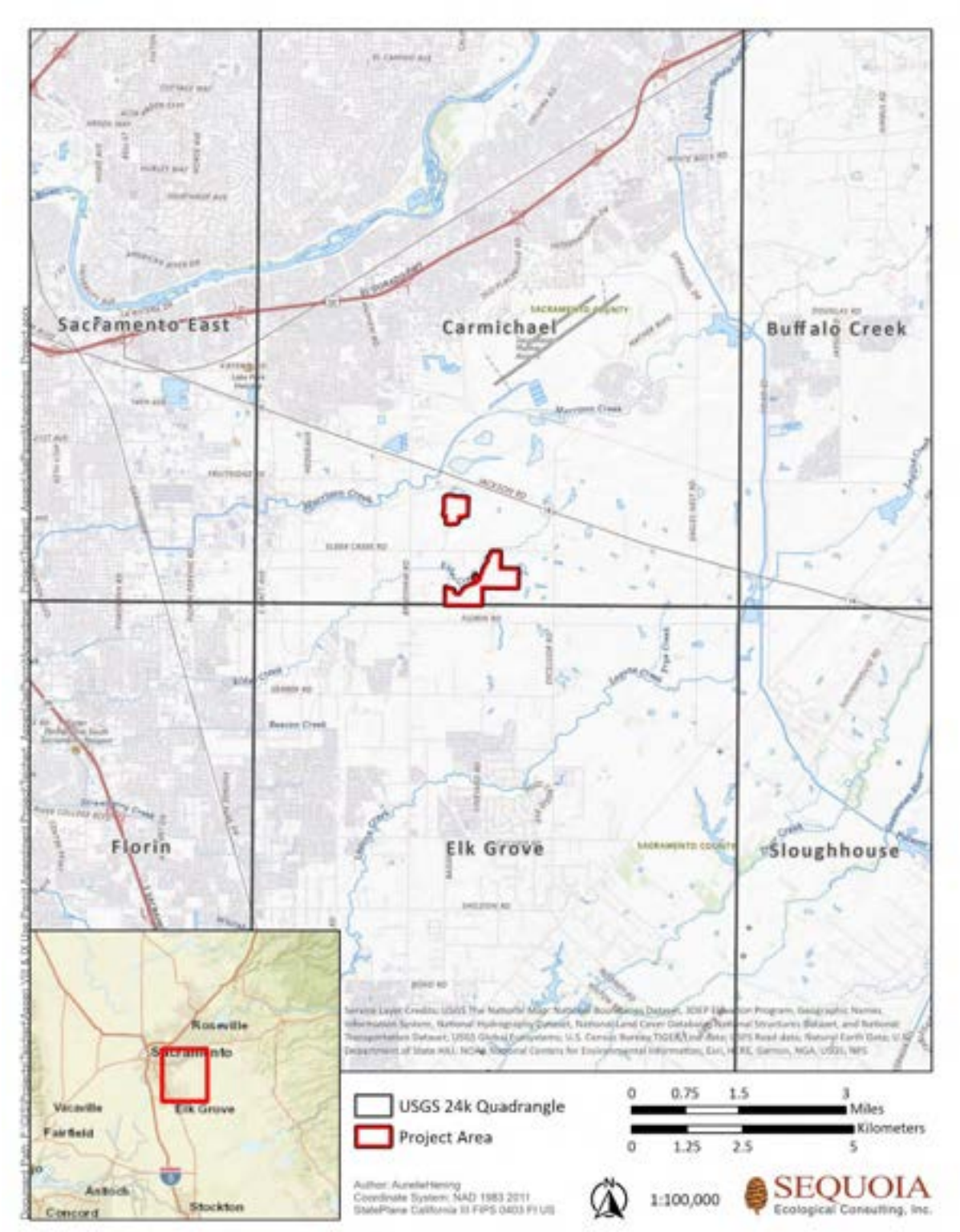

Figure 1. Regional Setting

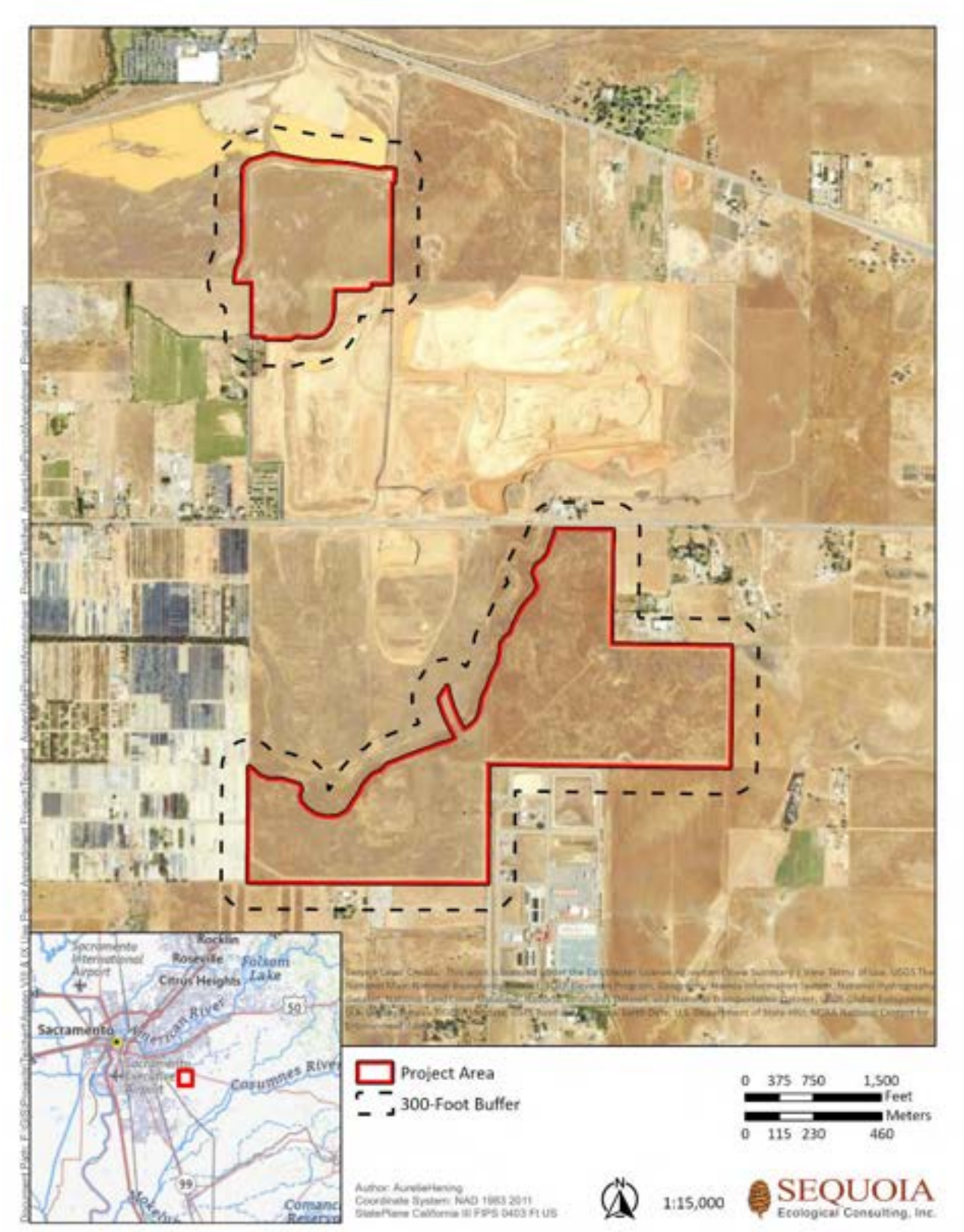

Figure 2. Project Location

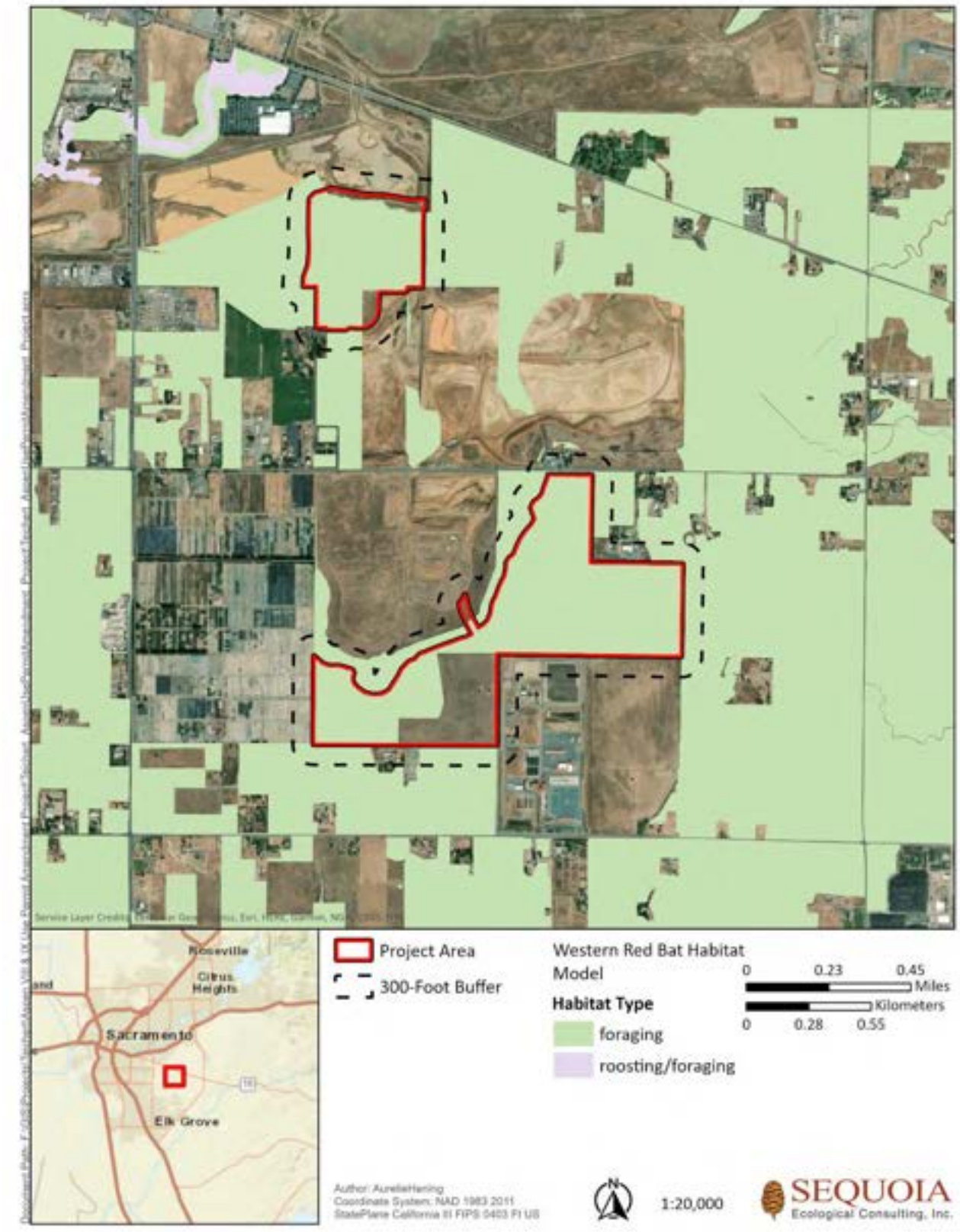

Figure 3. SSHCP-Modeled Western Red Bat Habitat

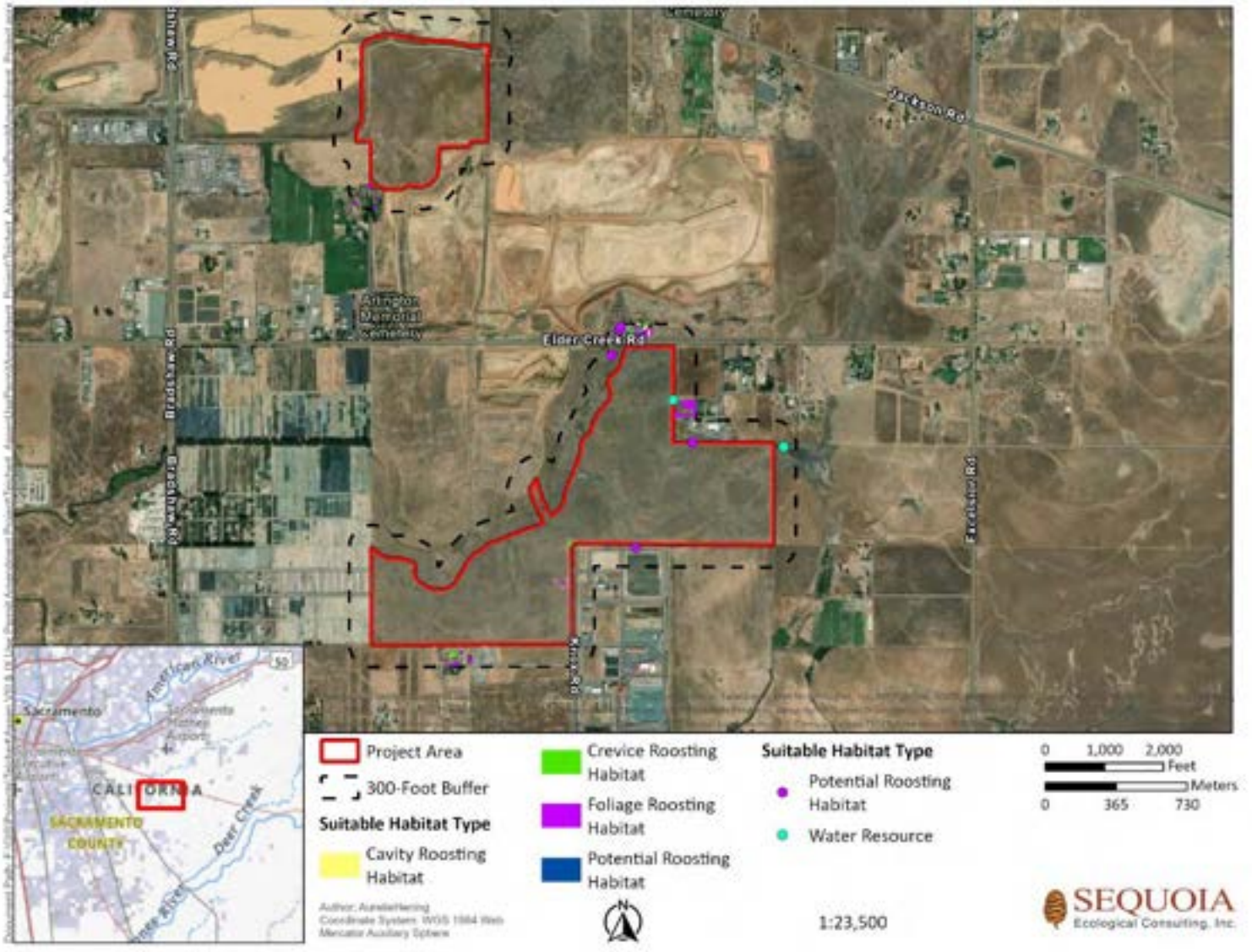

Figure 4. Bat Habitat Observed in the Survey Area

Attachment C

Aspen VIII and IX Representative Photos

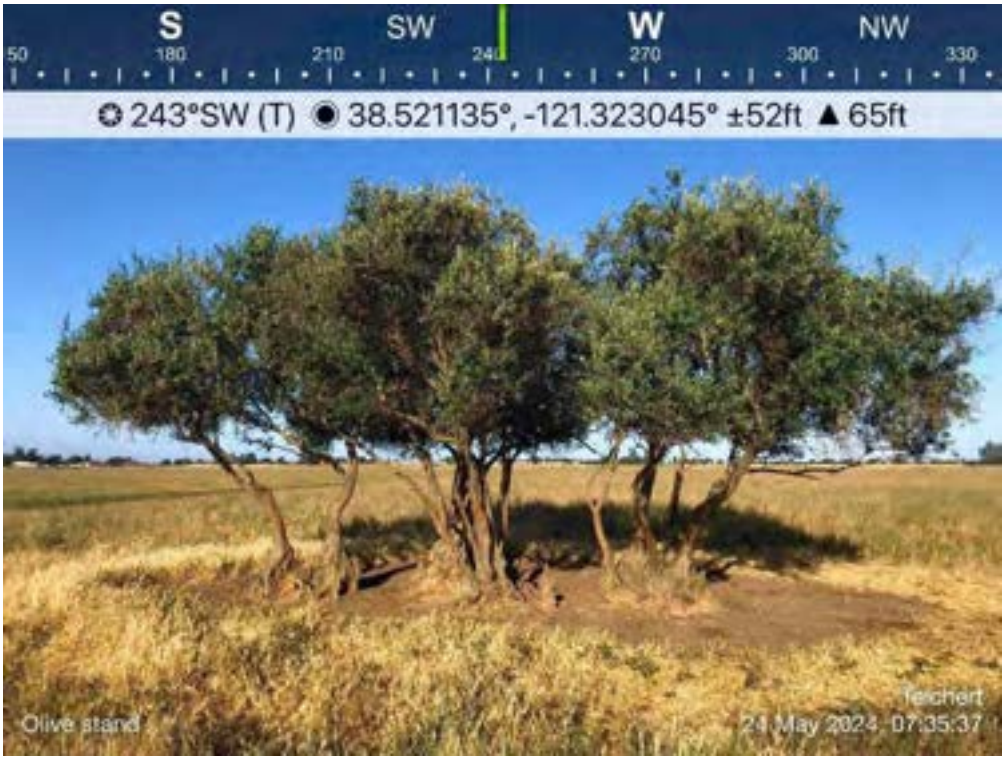

Photo 1. An olive tree stand within the Aspen VIII expansion survey area.



Photo 2. Olive tree stand with evidence of commonly-occurring raptor perches within the Aspen VIII expansion survey area.



Photo 3. Valley oaks within the Aspen VIII expansion survey area.



Photo 4. A stand of five valley oaks within the Aspen VIII expansion survey area.



Photo 5. Olive tree stand with evidence of raptor perches within Aspen VIII expansion survey area, representative of foliage roosting habitat.



Photo 6. Open water within the Aspen VIII expansion survey area.



Photo 7. A row of small valley oaks lining a fence within the Aspen VIII expansion survey area.



Photo 8. Cottonwood snag representative of crevice roosting habitat within the Aspen IX expansion survey area.



Photo 9. A pair of eucalyptus trees within the Aspen IX expansion survey area.



Photo 10. Olive tree stand with evidence of commonly-occurring raptor perches within the Aspen VIII expansion survey area.



Photo 11. A walnut tree within the Aspen IX expansion survey area.



Photo 12. Open water perches within the Aspen IX expansion survey area.

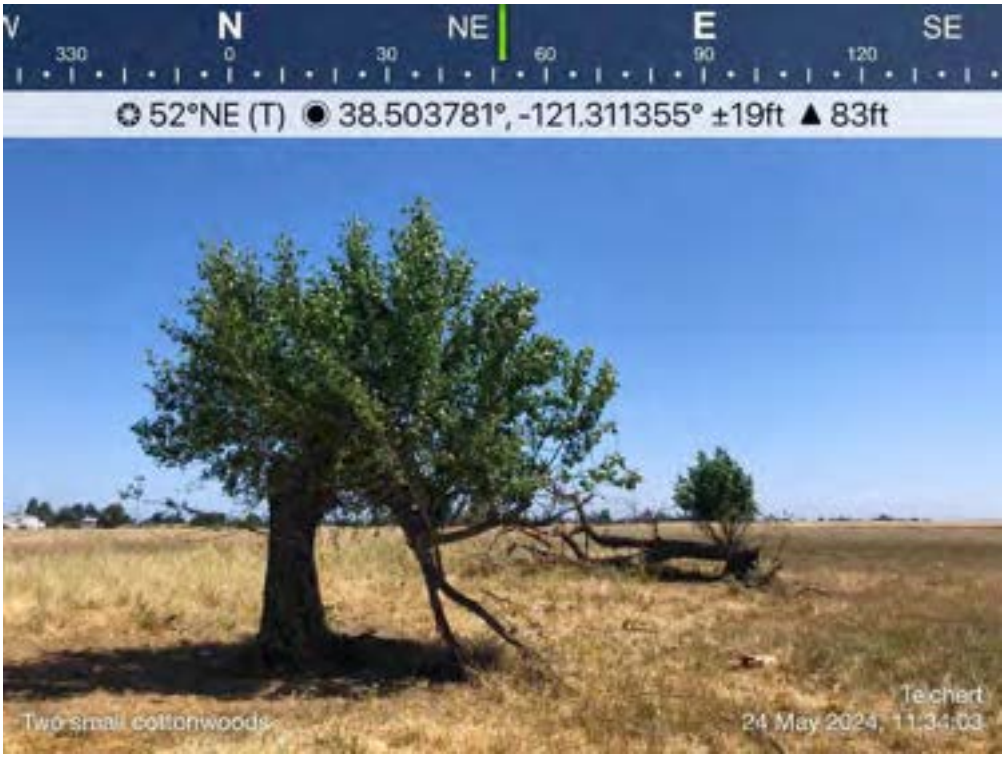

Photo 13. Two small cottonwood trees within the Aspen IX expansion survey area.



Photo 14. Deciduous ornamental trees on private property within the Aspen IX expansion survey area.



Photo 15. Deciduous ornamental trees on private proterty within the Aspen IX expansion survey area.



Photo 16. Lone valley oak within the Aspen VIII expansion survey area.

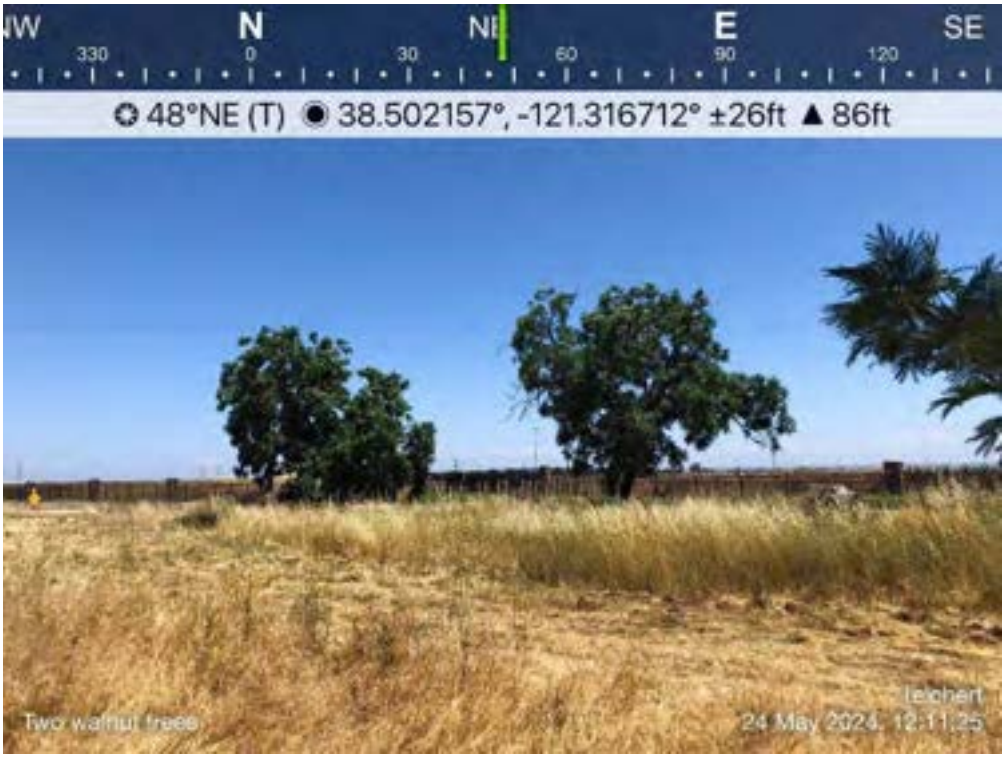

Photo 17. A pair of walnut trees within the Aspen IX expansion survey area.



Photo 18. Small grove including citrus, walnut, and acacia trees within the Aspen IX expansion survey area.



Photo 19. Walnut trees along a fence within the Aspen VIII expansion survey area.



Photo 20. A wooded area representative of cavity roosting habitat on a private lot within the Aspen IX expansion survey area.



Photo 21. Fig tree within the Aspen IX expansion survey area



Photo 22. Lone mulberry within the Aspen IX expansion survey area.



Photo 23. Lone mulberry within the Aspen IX expansion survey area.



Photo 24. Lone interior live oak within the Aspen VIII expansion survey area.



Photo 25. Triangle office grounds within Aspen IX expansion survey area.



Photo 26. Triangle office lot within the Aspen IX expansion survey area.



Photo 27. Triangle office lot within the Aspen IX expansion survey area.



Photo 28. Triangle office lot within the Aspen IX expansion survey area.



Photo 29. Elder Creek ponding adjacent to Triangle office within the Aspen IX expansion survey area.



Photo 30. Triangle quonset hut within the Aspen IX expansion survey area.

APPENDIX E

CULTURAL RESOURCES TECHNICAL REPORT

Cultural Resources Technical Report for the Aspen VIII & IX Use Permit Amendment Project

Prepared for:

Teichert Construction
3500 American River Drive
Sacramento, CA 95864

May 2024

Cultural Resources Technical Report for the Aspen VIII & IX Use Permit Amendment Project

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May 2024

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LIST OF ABBREVIATIONS

APE	Area of Potential Effect
APN	assessor's parcel number
cal	calibrated
CEQA	California Environmental Quality Act
CFR	Code Federal Regulations
CHRIS	California Historical Resources Information System
CRHR	California Register of Historical Resources
CRTR	cultural resources technical report
DPR	California Department of Parks and Recreation
MLD	Most Likely Descendant
NAGPRA	Native American Graves Protection and Repatriation Act
NAHC	Native American Heritage Commission
NCIC	North Central Information Center
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
PRC	Public Resources Code
Qr	Quaternary Riverbank Formation
SHPO	State Historic Preservation Officer
SLF	Sacred Lands File
USC	US Code
USGS	United States Geological Survey

EXECUTIVE SUMMARY

PURPOSE AND SCOPE:

Ascent was retained by Teichert Construction to prepare a cultural resources technical report (CRTR) in support of the Aspen VIII & IX Use Permit Amendment Project (project) located just outside of the eastern city limits of Sacramento in unincorporated Sacramento County. The tasks completed in support of the CRTR included a cultural resources literature search, a Sacred Lands File (SLF) search, tribal outreach, development of an Area of Potential Effect (APE), geoarchaeological sensitivity analysis, an intensive pedestrian survey of the APE, and a potential impact assessment. This CRTR was completed in compliance with Section 15064.5(a)(2)-(3) of the California Environmental Quality Act (CEQA) Guidelines and Section 106 of the National Historic Preservation Act, as a Clean Water Act Section 404 Permit from the US Army Corps of Engineers may be required. The presence of, or the potential for the presence of, tribal cultural resources as defined by California Public Resources Code (PRC) Section 21074, is not addressed.

RESEARCH RESULTS:

The California Historical Resources Information System (CHRIS) records search indicated that four previous investigations have occurred within the APE covering 99 percent; an additional 16 investigations have occurred within one-half-mile (Appendix A). Although the CHRIS search identified two previously recorded resources within the APE, the aerial images and a pedestrian survey revealed that one of the previously recorded resources is no longer present within the APE. The CHRIS records search identified 18 previously recorded resources within the one-half mile radius of the APE. The two previously recorded sites have been previously evaluated and recommended not eligible for listing in the National Register of Historic Places (NRHP) or the California Register of Historical Resources (CRHR).

No new cultural resources were identified as a result of the pedestrian survey.

The SLF database search returned positive results for Native American resources in the APE or immediate vicinity (Appendix B). Ascent sent project information and outreach emails to 17 tribal representatives, requesting information on the sensitivity of the APE for indigenous resources. Details of the tribal outreach can be found in Table 2-4 (Section 2.4).

CONCLUSIONS AND RECOMMENDATIONS:

No unique archaeological sites, historical resources, or historic properties were identified within the APE as a result of the background research and pedestrian survey completed for the project. As such, a finding of no historic properties affected is recommended under Section 106 and a finding of no impact to historical resources is recommended under CEQA. In addition, the analysis of the geologic data for the APE indicates there is a low possibility for the presence of archaeological resources to be present within the APE. However, to avoid significant impacts to previously unidentified cultural resources during project activities, including the inadvertent discovery of human remains, the following measures are still recommended:

- Inadvertent Discoveries – Archaeological Resources: If archaeological materials are inadvertently discovered during ground-disturbing activities, including midden soils, stone tools, chipped stone, baked clay, or concentrations of shell, bone, charcoal, glass, metal, or ceramics, all work shall cease within 100 feet (30.5 meters) of the find and the services of a professional archaeologist shall be retained immediately. At that time, the County of Sacramento shall coordinate any necessary investigation of the site with the archaeologist as needed to evaluate the significance of the resource per PRC Section 5024.1 and 21083.2(g) and provide proper management recommendations. If the find is determined to be a historical resource and/or a unique archeological resource, contingency funding and a time allotment sufficient to allow for implementation of avoidance measures and/or mitigation will be made available. Possible management recommendations for significant resources could include resource avoidance or data recovery excavations. The contractor shall

implement any measures deemed necessary by the archeologist for the protection of the cultural resources. Do not resume work in the area of the discovery until directed to do so by the archaeologist.

- Inadvertent Discovery of Human Remains: If human remains are discovered during construction activities, work within 100 feet (30 meters) of the remains shall be stopped immediately, and the project proponent shall notify the Sacramento County Coroner, in accordance with Section 5097.98 of the PRC and Section 7050.5 of California's Health and Safety Code. If the remains are determined by the coroner to be Native American, the coroner will notify the Native American Heritage Commission within 24 hours, and they will designate a Most Likely Descendant (MLD). Together the landowner and the MLD shall determine the ultimate treatment and disposition of the remains in accordance with PRC Section 5097.94.

DISPOSITION OF DATA:

This report will be filed with the North Central Information Center (NCIC) at California State University, Sacramento, and Ascent's office in Sacramento. All field notes and other documentation related to this CRTR are on file at the Ascent's office in Sacramento.

PERSONNEL QUALIFICATIONS:

Roberto Mora has over 9 years of cultural resource management experience in throughout the western United States. He has served as the lead archaeological technician and co-field director on a variety of project types. Roberto has expertise in precontact archaeology of the Great Basin and California, human osteology, faunal remains, monitoring, survey and excavation methods, and laboratory analysis. His experience includes archaeological survey, monitoring, excavation, laboratory processing and cataloging, report writing, and data recovery of precontact and historic-era archaeological sites. Roberto meets the Secretary of the Interior's Standards for archaeology and the Caltrans Professional Qualification Standards as a principal investigator in precontact archaeology.

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1 INTRODUCTION

Teichert Construction is proposing to expand surface mining operations at Teichert's existing Aspen VIII & IX mining site located in unincorporated Sacramento County along Elder Creek Road. Ascent completed this CRTR in compliance with Section 106 of the National Historic Preservation Act (36 Code Federal Regulations [CFR] Section 800), CEQA Section 21083.2 of the statute, and Section 15064.5 of the CEQA Guidelines. The tasks completed in support of the CRTR include a cultural resources literature search, a Sacred Lands File (SLF) search, tribal outreach, development of an Area of Potential Effect (APE), geoarchaeological sensitivity analysis, an intensive pedestrian survey of the APE, and a potential impact assessment.

1.1 PROJECT LOCATION AND DESCRIPTION

The APE consists of two discontinuous areas located within unincorporated Sacramento County, east of the City of Sacramento limits, south of Jackson Highway (Hwy 16), and approximately one-half mile east of Bradshaw Road (Figure 1). Aspen VIII is located north of Elder Creek Road and its proposed expansion area extending the mining operation north up to the boundary of the previously mined Aspen V South site (Figure 1 and Figure 2). Aspen IX is located south of Elder Creek Road with mining currently only occurring north of Elder Creek. The expansion of Aspen IX would allow mining of the property south of Elder Creek down to the Vineyard Surface Water Treatment Plant and Knox Road. The APE is in the Vineyard community of unincorporated Sacramento County.

The project is located within Township 8 north, Range 6 east, Sections 27, 28, 33, and 34 of the USGS 7.5-minute series Carmichael, California quadrangles. The assessor's parcel numbers (APN's) are as follows:

1) Aspen VIII: APN's 063-0180-005, 063-0180-006, 063-0190-014, 063-0190-015, 063-0190-021, 063-0190-028, 063-0190-029, 063-0190-027
2) Aspen XI South: APN's 066-0020-006, 066-0050-003, 066-0030-001
3) Conveyor Extension South to Aspen IX South: APN 066-0020-006

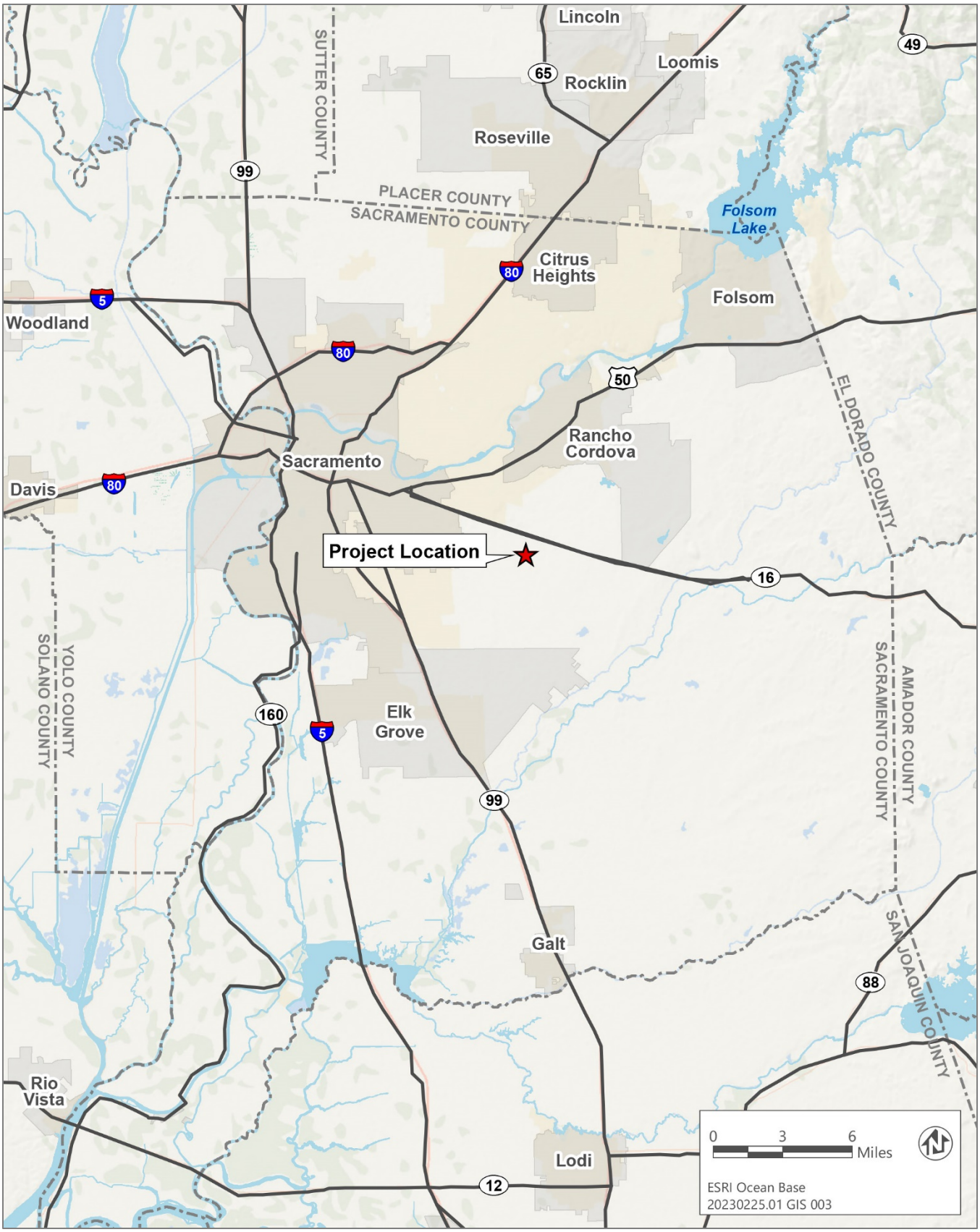
Teichert is requesting to amend its existing use permit and reclamation plan for the project to expand mining of aggregate material (sand and gravel) to 245.6 acres of previously unmined areas adjacent to the approved and active mine sites of Aspen VIII and Aspen IX (Figure 3). As a part of the expansion, Teichert is proposing to extend its existing electric conveyor belt system over Elder Creek to transport aggregate materials from Aspen IX South back to the Perkins processing facility.

The expansion of the Aspen VIII and IX mining areas adjacent to existing mining operations would require amendments to the existing Mining Use Permit, Reclamation Plan, and Development Agreements for Aspen VIII and IX. The project would also include amendments to several conditions of approval on the Use Permit that are necessary to incorporate the expanded mining areas.

All the included APNs for this project include a Surface Mining Combining Zone designation thereby eliminating the need for a rezone. The existing SM zoning overlay indicates that the County has already determined these properties to be appropriate for surface mining with the grant of a use permit.

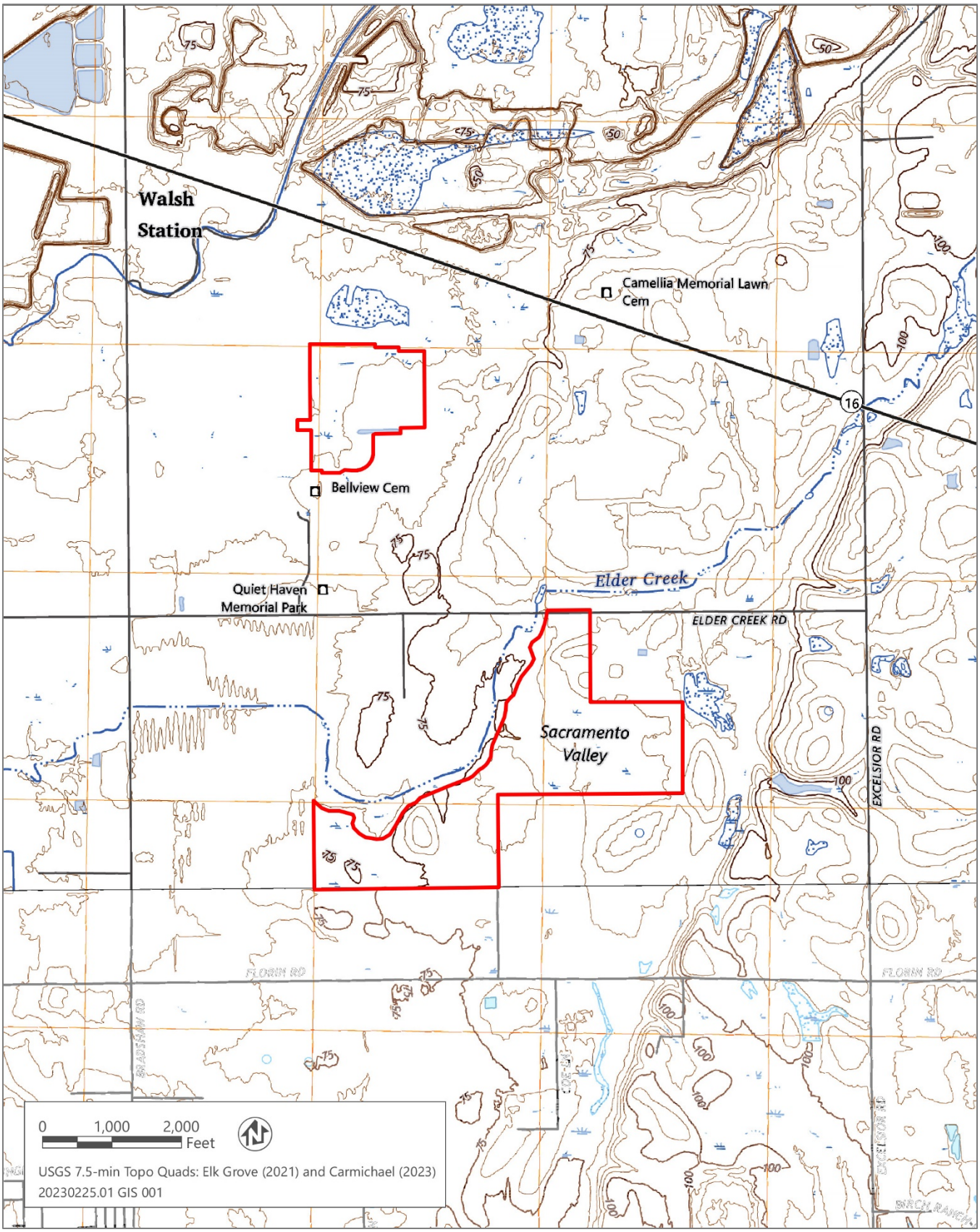
1.2 AREA OF POTENTIAL EFFECT

The APE encompasses the 245.6 acres that would be directly impacted by the expanded mining operations. The potential depth of impact is unknown; however, the minimum anticipated depth of excavation is 5 feet.



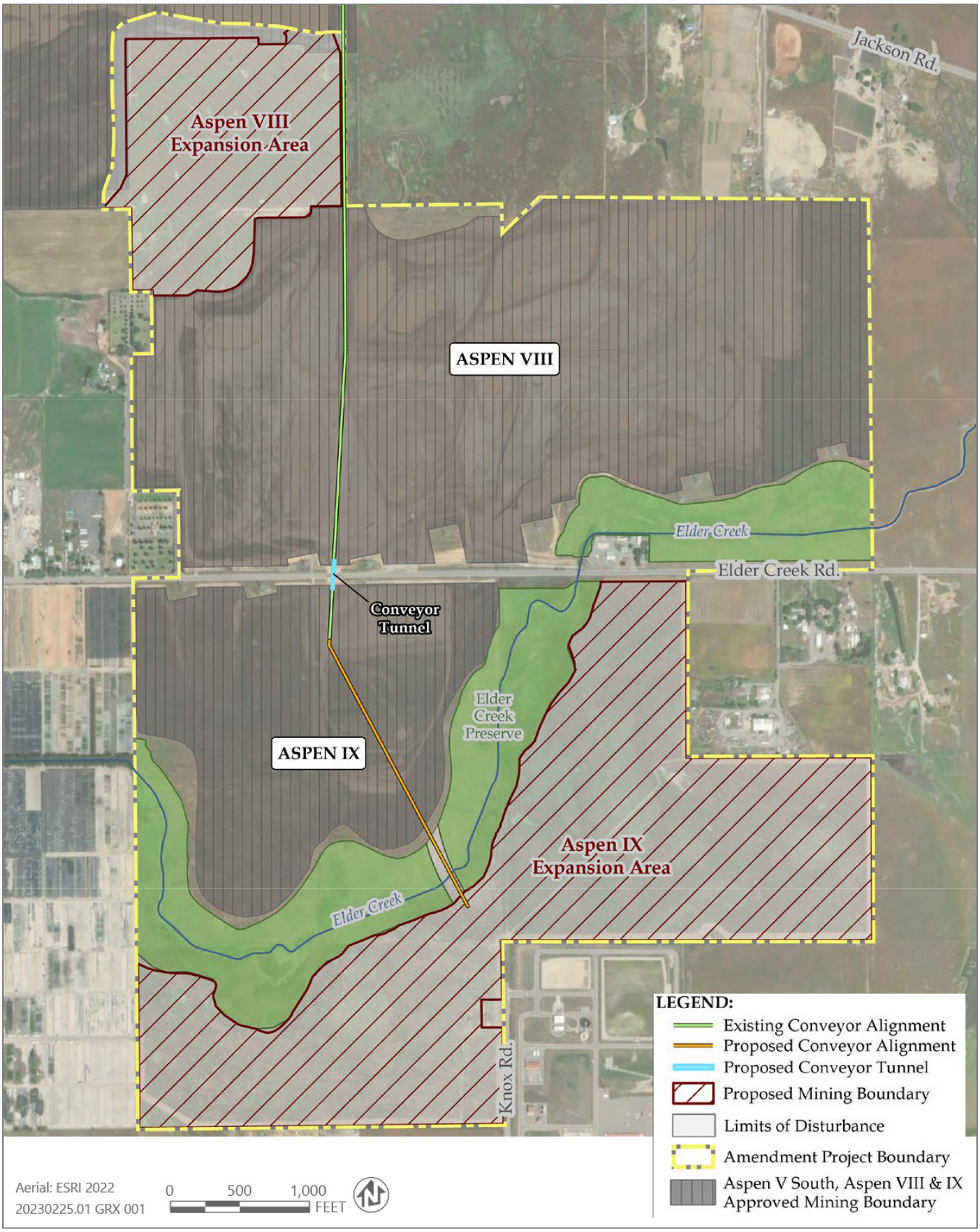
Source: Adapted by Ascent Environmental in 2024.

Figure 1-1 Regional Location



Source: Adapted by Ascent Environmental in 2024.

Figure 1-2 Area of Potential Effect (APE)



Source: Adapted by Ascent Environmental in 2024.

Figure 1-3 Aspen VIII & IX Amendment

1.3 REGULATORY CONTEXT

1.3.1 Federal

NATIONAL HISTORIC PRESERVATION ACT

Historic properties are protected through the National Historic Preservation Act (NHPA) of 1966 (54 US Code [USC] 470f) and its implementing regulations (16 USC 470 et seq., 36 CFR 800, 36 CFR 60, and 36 CFR 63). The NHPA establishes the federal government's policy on historic preservation and the programs, including the NRHP, through which that policy is implemented. Under the NHPA, historic properties include "any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places" (16 USC 470w (5)).

The formal criteria (36 CFR 60.4) for determining NRHP eligibility are as follows:

1) The property is at least 50 years old (however, properties under 50 years of age that are of exceptional importance or are contributors to a district can also be included in the NRHP);
2) It retains integrity of location, design, setting, materials, workmanship, feeling, and associations; and
3) It possesses at least one of the following characteristics:

   Criterion A Is associated with events that have made a significant contribution to the broad patterns of history (events).

   Criterion B Is associated with the lives of persons significant in the past (persons).

   Criterion C Embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant, distinguishable entity whose components may lack individual distinction (architecture).

   Criterion D Has yielded, or may be likely to yield, information important in prehistory or history (information potential).

For a property to retain and convey historic integrity it must possess most of the seven aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. Location is the place where the historic property was constructed or the place where a historic event occurred. Integrity of location refers to whether the property has been moved since its construction. Design is the combination of elements that create the form, plan, space, structure, and style of a property. Setting is the physical environment of a historic property that illustrates the character of the place. Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property. Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This is an intangible quality evoked by physical features that reflect a sense of a past time and place. Association is the direct link between the important historic event or person and a historic property. Continuation of historic use and occupation help maintain integrity of association.

NATIONAL HISTORIC PRESERVATION ACT SECTION 106

Section 106 of the NHPA requires that federal agencies and entities that they fund or license consider the effects of their actions on properties that are listed in the NRHP or that may be eligible for such listing. To determine whether an undertaking could affect NRHP-eligible properties, cultural resources, including historical and architectural properties, must be inventoried and evaluated. Although compliance with Section 106 is the responsibility of the lead federal agency, others can conduct the work necessary to comply.

The Section 106 review process consists of the following four steps:

1) Initiate the Section 106 process by establishing the undertaking, developing a plan for public involvement, and identifying other consulting parties.
2) Identify historic properties (resources that are eligible for inclusion in the NRHP) by determining the scope of efforts, identifying cultural resources in the area potentially affected by the project, and evaluating resources' eligibility for NRHP inclusion.
3) Assess adverse effects by applying the Section 106 criteria of adverse effect to identified historic properties.
4) Resolve adverse effects by consulting with the State Historic Preservation Officer and other consulting agencies, including the Advisory Council on Historic Preservation if necessary, to develop an agreement that addresses the treatment of historic properties.

NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT

Native American Graves Protection and Repatriation Act (NAGPRA) (Public Law 101-601, 25 U.S.C. 3001 et seq., 104 Stat. 3048), was enacted on November 16, 1990. It provides for the repatriation and disposition of certain Native American human remains, funerary objects, sacred objects, and objects of cultural patrimony. By enacting NAGPRA, Congress recognized that human remains of any ancestry "must at all times be treated with dignity and respect." The law also acknowledges that human remains, and other cultural items of Native American origin (which includes Native Hawaiian origin), removed from Federal or tribal lands belong, in the first instance, to lineal descendants, Indian Tribes, and Native Hawaiian organizations. Federal agencies and museums, universities, state agencies, local governments, or any institution that receives Federal funds must comply with NAGPRA. NAGPRA also establishes penalties for both criminal and civil violations related to the illegal possession or sale, purchase, profit, or transportation for sale or profit, of Native American human remains or cultural items illegally obtained from federal lands or museums, among other instances. Due to the fact the proposed project is located on national forest lands, any Native American human remains and/or funerary objects, sacred objects, and objects of cultural patrimony discovered during project-related investigations or during project implementation would be subject to NAGPRA.

1.3.2 State

CALIFORNIA REGISTER OF HISTORICAL RESOURCES

All properties in California that are listed in or formally determined eligible for listing in the NRHP are eligible for listing in the CRHR. The CRHR is a listing of State of California resources that are significant in the context of California's history. It is a Statewide program with a scope and with criteria for inclusion similar to those used for the NRHP. In addition, properties designated under municipal, or county ordinances are also eligible for listing in the CRHR.

A historic resource must be significant at the local, state, or national level under one or more of the criteria defined in the California Code of Regulations Title 15, Chapter 11.5, Section 4850 to be included in the CRHR. The CRHR criteria are tied to CEQA because any resource that meets the criteria below is considered a significant historical resource under CEQA. As noted above, all resources listed in or formally determined eligible for listing in the NRHP are automatically listed in the CRHR.

The CRHR uses four evaluation criteria for significance:

Criterion 1. Is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States.

Criterion 2. Is associated with the lives of persons important to local, California, or national history.

Criterion 3. Embodies the distinctive characteristics of a type, period, region, or method of construction; represents the work of a master; or possesses high artistic values.

Criterion 4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

A property must have both significance and integrity to be considered eligible for listing in the CRHR. Loss of integrity, if sufficiently great, will overwhelm the historical significance of a resource and render it ineligible. Likewise, a resource can have complete integrity, but if it lacks significance, it must also be considered ineligible. Integrity is evaluated by regarding the property's retention of its location, design, setting, workmanship, materials, feeling, and association to its period of significance. These seven factors can be roughly grouped into three types of integrity considerations. Location and setting relate to the relationship between the property and its environment. Design, materials, and workmanship, as they apply to historic buildings, relate to construction methods and architectural details. Feeling and association are the least objective of the seven factors and pertain to the overall ability of the property to convey a sense of the historical time and place in which it was constructed.

CALIFORNIA ENVIRONMENTAL QUALITY ACT

CEQA requires public agencies to consider the effects of their actions on "historical resources," and "unique archaeological resources." Pursuant to PRC Section 21084.1, a "project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment." Section 21083.2 requires agencies to determine whether projects would have effects on unique archaeological resources.

Historical Resources

"Historical resource" is a term with a defined statutory meaning (PRC Section 21084.1; State CEQA Guidelines Sections 15064.5[a] and [b]). Under State CEQA Guidelines Section 15064.5(a), historical resources include the following:

1) A resource listed in or determined to be eligible by the State Historical Resources Commission for listing in, the CRHR (PRC Section 5024.1).

2) A resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g), will be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant.

3) Any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be a historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource will be considered by the lead agency to be historically significant if the resource meets the criteria for listing in the CRHR (PRC Section 5024.1).

4) The fact that a resource is not listed in or determined to be eligible for listing in the CRHR, not included in a local register of historical resources (pursuant to PRC Section 5020.1[k]) or identified in a historical resources survey (meeting the criteria in PRC Section 5024.1[g]) does not preclude a lead agency from determining that the resource may be a historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

Unique Archaeological Resources

CEQA also requires lead agencies to consider whether projects will affect unique archaeological resources. PRC Section 21083.2(g) states that "unique archaeological resource" means an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets one or more of the following criteria:

1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.

3) Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Mitigation of Impacts to Archaeological Resources

Treatment options under PRC Section 21083.2 (b) to mitigate impacts to archaeological resources include activities that preserve such resources in place in an undisturbed state. PRC Section 21083.2 states:

(a) As part of the determination made pursuant to Section 21080.1, the lead agency shall determine whether the project may have a significant effect on archaeological resources. If the lead agency determines that the project may have a significant effect on unique archaeological resources, the environmental impact report shall address the issue of those resources. An environmental impact report, if otherwise necessary, shall not address the issue of nonunique archaeological resources. A negative declaration shall be issued with respect to a project if, but for the issue of nonunique archaeological resources, the negative declaration would be otherwise issued.

(b) If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following:

1) Planning construction to avoid archaeological sites.
2) Deeding archaeological sites into permanent conservation easements.
3) Capping or covering archaeological sites with a layer of soil before building on the sites.
4) Planning parks, greenspace, or other open space to incorporate archaeological sites.

(c) To the extent that unique archaeological resources are not preserved in place or not left in an undisturbed state, mitigation measures shall be required as provided in this subdivision.

(d) Excavation as mitigation shall be restricted to those parts of the unique archaeological resource that would be damaged or destroyed by the project.

CALIFORNIA NATIVE AMERICAN HISTORICAL, CULTURAL, AND SACRED SITES ACT

The California Native American Historical, Cultural, and Sacred Sites Act (PRC Section 5097.9) applies to both State and private lands. The act requires, upon discovery of human remains, that construction or excavation activity cease and that the county coroner be notified. If the remains are those of a Native American, the coroner must notify the Native American Heritage Commission (NAHC), which notifies (and has the authority to designate) the most likely descendants of the deceased. The act stipulates the procedures the descendants may follow for treating or disposing of the remains and associated grave goods.

HEALTH AND SAFETY CODE, SECTION 7050

Section 7050.5 of the Health and Safety Code requires that construction or excavation be stopped in the vicinity of discovered human remains until the coroner can determine whether the remains are those of a Native American. If they are determined to be those of a Native American, the coroner must contact NAHC.

PUBLIC RESOURCE CODE SECTION 5097

PRC Section 5097 specifies the procedures to be followed in the event of the unexpected discovery of human remains on nonfederal land. The disposition of Native American human burials falls within the jurisdiction of the NAHC. Section 5097.5 of the Code states the following:

> No person shall knowingly and willfully excavate upon, or remove, destroy, injure, or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands. Violation of this section is a misdemeanor.

2 ARCHIVAL RESEARCH

2.1 RECORDS SEARCH

On February 2, 2024, a records search which included the APE and a one-half-mile radius was completed at the North Central Information Center (NCIC), at California State University, Sacramento (File No. SAC-24-17; Appendix A). As part of the NCIC records search, the following information was reviewed:

- site records of previously recorded cultural resources,
- previous cultural studies,
- NRHP and CRHR listings,
- the California Historic Resources Inventory
- Built Environment Resource Directory for Sacramento County
- Historical Maps [United States Geological Survey (USGS) Topographic and GLO Plat maps]

Review of the NCIC records search results for the APE identified two previously recorded resources within the APE (P-34-000690 and P-34-001867); P-34-000690 is a farmstead that was recommended not eligible for the NRHP (Widell 1997). Concurrence on the evaluation was obtained by the State Historic Preservation Officer (SHPO) on April 9, 1997 (No. COE970311A). P-34-001867 is comprised of foundational remains of a farmhouse that was recommended not eligible for the CRHR and NRHP (Peak & Associates 2014; Polanco 2015). SHPO concurrence was obtained on September 28, 2015, that this resource is not eligible for the NRHP (No. COE_2015_0826_001). In addition, a total of 18 resources had been previously recorded within one-half-mile radius of the APE (Table 2-1). These 18 resources consist of a railroad grade and several built environment features (structures, buildings, residencies, privies, water conveyance systems, trash scatters, wells, structural pads, and habitational debris). The records search also found that four previous investigations have occurred within the APE, which covers approximately 99 percent of the APE (Table 2-2). In addition, 16 investigations have occurred within one-half-mile of the APE (Table 2-3).

2.2 OTHER SOURCES

Additional research included the review of historic USGS topographic maps from 1902 to 2022 and aerial images from 1947 to 2020 (NETR 2024). GLO plat map were also reviewed; review of the 1866 plat map revealed that the APE was undeveloped (BLM 2024). The aerial images review revealed that the APE was largely underdeveloped with the majority of the APE being used for grazing and/or livestock. Both the aerials (1947) and topographic maps (1965) revealed a building, likely a residence, at the end of the Knox Road to the west. However, by 2009, this building had been demolished. The BLM 1866 plat map revealed that the northern portion of the APE lies within the Rancho Rio de Los Americanos (See Local Setting for additional information). In addition, the 1866 plat map revealed the same residence (John Downing's house) that was captured by the aerials and topographic maps (BLM 2024).

2.3 SCARED LANDS FILE SEARCH

Ascent requested a search of the SLF from the NAHC on January 10, 2024. Positive results were returned on February 2, 2024. Attached to the results was a list of Native American groups and individuals to contact who may also have knowledge of cultural resources in the APE. A summary of that outreach is included in Section 2.4.1 below. A copy of the NAHC response letter is included in Appendix B.

Table 2-1 Resources Outside the APE, Within One-Half-Mile Radius

Primary Number/trinomial	Year/Author/Affiliation	Age	Attribute Codes
P-34-000689	1996 (Stephen Mikesell, JRP Historical Consulting); 2003 (Madeline Bowen, Jones & Stokes)	Historic era	AH04 (Privies/dumps/trash scatters); HP02 (Single family property); HP33 (Farm/ranch)
P-34-001507	2003 (Madeline Brown, Jones & Stokes); 2006 (Robert Gerry, Peak and Associates, Inc.)	Historic era	HP02 (Single family property)
P-34-001597	2005 (J.W. Dougherty, PAR Environmental Services, Inc.); 2013 (Ric Windmiller, Consultant)	Historic era	AH06 (Water conveyance system); AH08 (Dams)
P-34-001627	2006 (M. Guerrero and K. Johnson, ECORP Consulting, Inc.)	Historic era	HP39 (Other)- pea gravel concrete trough
P-34-001669	2006 (Ann Peak, Peak and Associates, Inc.)	Historic era	AH04 (Privies/dumps/trash scatters)
P-34-001865	2006 (Robert Gerry, Peak and Associates, Inc.); 2014 (Robert Gerry, Peak & Associates, Inc.)	Historic era	HP02 (Single family property)
P-34-001866	2006 (Robert Gerry, Peak and Associates, Inc.); 2014 (Robert Gerry, Peak & Associates, Inc.)	Historic era	HP02 (Single family property)
P-34-002474	1979 (Carroll Pursell, UCSB)	Historic era	HP19 (Bridge); HP95 (Concrete Construction)
P-34-003864	2005 (C. Fish, Jones and Stokes)	Historic era	HP33 (Farm/ranch)
P-34-003872	2005 (C. Fish, Jones and Stokes)	Historic era	AH05 (Wells/cisterns)
P-34-004815/ CA-SAC-001171	1996 (J. Haney, W. Shapiro, J. Scott, Garcia and Associates)	Historic era	AH02 (Foundations/structure pads); AH11 (Walls/fences); AP15 (Habitation debris)
P-34-004816/ CA-SAC-001172	1996 (J. Haney, W. Shapiro, J. Scott, Garcia and Associates)	Historic era	AH02 (Foundations/structure pads)
P-34-004817/ CA-SAC-001173	1996 (J. Haney, W. Shapiro, J. Scott, Garcia and Associates)	Historic era	AH02 (Foundations/structure pads); AH04 (Privies/dumps/trash scatters)
P-34-005196	2014 (Robert Gerry, Michael Lawson, Peak & Associates, Inc.)	Historic era	HP02 (Single family property)
P-34-005302/ CA-SAC-001263H	2016 (Ian Springer, Brian James, Caltrans District 3)	Historic era	AH04 (Privies/dumps/trash scatters)
P-34-005492	2003 (Madeline Bowen, Jones & Stokes)	Historic era	HP33 (Farm/ranch)
P-34-005493	2003 (Madeline Bowen, Jones & Stokes)	Historic era	HP06 (1-3 story commercial building)
P-34-005494	2003 (Madeline Bowen, Jones & Stokes)	Historic era	HP19 (Bridge)

Source compiled by Ascent 2024.b.

Table 2-2 Reports Within the APE

Report Number	Year	Author/Affiliation	Title	Percent within APE (Approx.)
00088	1974	Johnson, Jerald J., Sacramento State	Reconnaissance Archeological Survey of the Morrison Stream Group in Sacramento County, California.	75%
03011	1997	N/A, Garcia and Associates	Cultural Resources Report, Morrison Creek Mining Reach Downstream (South) of Jackson Highway	25%
008912	2007	Melinda Peak, Peak and Associates, Inc.	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	40%
12378	2014	N/A, Peak & Associates, Inc.	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	85%

Source compiled by Ascent 2024.

Table 2-3 Reports Outside the APE, Within One-Half-Mile Radius

Report Number	Year	Author/Affiliation	Title
002385	2000	Bakic, Tracy D. and Mary L. Maniery, PAR Environmental Services, Inc.	Negative Historic Property Survey Report, Bradshaw Road Bridge Replacement Project at Morrison Creek (Bridge No. 24C-341), Sacramento County, California & Negative Archaeological Survey Report, Bradshaw Road Bridge Replacement Project at Morrison Creek (Bridge No. 24C-341), Sacramento County, California
006042	1991	N/A, BioSystems Analysis Inc.	A Cultural Resources Survey for the Teichert Aspen VI Rezone and Use Permit and Granite I Rezone and Use Permit Sacramento County, California.
006080	2005	N/A, PAR Environmental Services	Cultural Resources Assessment of the Off-site Well No. 6 Project.
006097	2004	Douglas Davy, CH2M Hill	Archaeological Resources Inventory for the Bradshaw Road Widening Project: Elder Creek to Florin Road; Technical Memorandum & Historic Significance Assessment.
007069	1995	N/A, Peak & Associates, Inc.	Cultural Resources Assessment of the North Vineyard Station Specific Plan, Sacramento County, CA
007948	2005	Mary Maniery PAR Environmental Services, Inc.	Cultural Resources Assessment of the Excelsior Road Well Field, Well no. 4 project, Control Number 04-0918 (PAR No. 05-5003-001).
008062	2006	Roger D. Mason ECORP Consulting, Inc.	Cultural Resources Survey and Evaluation North Vineyard Station Off-Site (WBIG) Project
008911	2007	Melinda Peak, Peak & Associates, Inc.	Determination of Eligibility and Effect for the Aspen IV South Project, Sacramento, California
009136	2006	M. Oberndorf, ECORP Consulting, Inc.	Cultural Resources Inventory, Emerald Estates, Sacramento County, California, Project 2005-174
009326	2008	Laura Leach-Palm, Bryan Larson, Paul Brandy, Jay King, Lindsay Hartman, and Pat Mikkelsen, Far Western; JRP Historical Consulting, LLC	Cultural Resources Inventory of Caltrans District 3 Rural Conventional Highways in Butte, Colusa, El Dorado, Glenn, Nevada, Placer, Sacramento, Sierra, Sutter, Yolo, and Yuba Counties
009989	2008	N/A, Jones and Stokes	Cultural Resources Inventory and Evaluation Report for the Freeport Regional Water Project, Sacramento and San Joaquin Counties, California
010353	2009	N/A EDAW | AECOM	Cultural Resources Inventory Report CSA Water T-Main and Florin Road Sewer Project Sacramento County, California

Report Number	Year	Author/Affiliation	Title
010735	2010	Adrian Whitaker and Phillip Kaijankoski Far Western	Archaeological Survey Report and Geoarchaeological Sensitivity Study for the PG&E Vineyard Surface Water Treatment Plant Project
011363	2013	Ric Windmiller Consulting Archaeologist	SCWA Well #4 Cultural Resources Inventory and Evaluation Sacramento County, California
011723	2014	Sarah C. Heffner, PAR Environmental Services	Heritage Resources Inventory Report for the Interim NSA Pipeline Project, Sacramento County, California
013845	2003	N/A, Jones & Stokes	Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors

Source compiled by Ascent 2024.

2.4 TRIBAL OUTREACH

Emails were sent to the 17 groups and individuals provided by the NAHC on March 7, 2024, to request information on cultural resources in the APE. The email included project information, a project map, and contact information. This outreach was conducted as part of the background research effort. No response was received from any of the groups or individuals after the initial contact and a follow-up request was sent on March 22, 2024. Table 2-4 provides a summary of who was contacted, how, when, and the response, if any. Copies of the tribal correspondence are included in Appendix B.

Table 2-4 Outreach Summary

Name and Title	Affiliation	Date and Medium of Initial Contact	Date and Medium of Follow-up Contact	Response Summary
Rhonda Morningstar Pope, Chairperson	Buena Vista Rancheria of Me-Wuk Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
Clyde Prout, Chairperson	Colfax-Todds Valley Consolidated Tribe	March 7, 2024 Email	March 22, 2024 Email	None to date.
Pamela Cubbler, Vice Chairperson	Colfax-Todds Valley Consolidated Tribe	March 7, 2024 Email	March 22, 2024 Email	None to date.
CTVCT Preservation, Cultural Preservation Dept.	Colfax-Todds Valley Consolidated Tribe	March 7, 2024 Email	March 22, 2024 Email	None to date.
Sara Dutschke, Chairperson	Ione Band of Miwok Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
Krystal Moreno, TEK Program Manager	Shingle Springs Band of Miwok Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
Dustin Murray, Tribal Administrator	Shingle Springs Band of Miwok Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
Regina Cuellar, Chairperson	Shingle Springs Band of Miwok Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
Kara Perry, Director of Site Protection	Shingle Springs Band of Miwok Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
James Sarmento, Executive Director of Cultural Resources	Shingle Springs Band of Miwok Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
Malissa Tayaba, Vice Chairperson; Director of TEK	Shingle Springs Band of Miwok Indians	March 7, 2024 Email	March 22, 2024 Email	None to date.
Grayson Coney, Cultural Director	Tsi Akim Maidu	March 7, 2024 Email	March 22, 2024 Email	None to date.

Name and Title	Affiliation	Date and Medium of Initial Contact	Date and Medium of Follow-up Contact	Response Summary
Gene Whitehouse, Chairperson	United Auburn Indian Community of the Auburn Rancheria	March 7, 2024 Email	March 22, 2024 Email	None to date.
Matt Moore, Tribal Historic Preservation Officer	United Auburn Indian Community of the Auburn Rancheria	March 7, 2024 Email	March 22, 2024 Email	None to date.
Herbert Griffin, Executive Director of Cultural Preservation	Wilton Rancheria	March 7, 2024 Email	March 22, 2024 Email	None to date.
Dahlton Brown, Director of Administration	Wilton Rancheria	March 7, 2024 Email	March 22, 2024 Email	None to date.
Cultural Preservation Department	Wilton Rancheria	March 7, 2024 Email	March 22, 2024 Email	None to date.

Source compiled by Ascent 2024.

2.5 FIELD METHODS

An intensive pedestrian survey of the APE was conducted on February 13, 2024, and February 14, 2024, by Ascent staff Roberto Mora, R.P.A. Parallel transects averaging approximately 15 meters apart were used throughout the APE. All open areas where the ground was visible were closely examined. Special attention was given to bare patches of ground, exposed soils, rodent burrows, and dirt piles. Previously recorded resources were photographed and updated on the appropriate California Department of Parks and Recreation (DPR) 523 forms as appropriate (Appendix C).

The results of the surveys are detailed in Section 5.2.

3 ENVIRONMENTAL SETTING

The APE is located within the eastern portion of the Sacramento Valley, which is the northern portion of the Great Valley geomorphic province of California. The Sacramento Valley is a broad depression bounded by the Sierra Nevada and Cascade Mountain ranges to the east, the Coast Ranges to the west, and the Sacramento-San Joaquin delta to the south. The project is at an elevation of 35 to 40 feet above mean sea level. This region is characterized by hot, dry summers and warm, moist winters. Annual precipitation averages 25 inches, with most of the rain falling between November and April. High winter temperatures reach approximately 57 degrees Fahrenheit, with summer temperature highs of around 100 degrees Fahrenheit. The current Mediterranean climate is dryer and hotter than the conditions present at the time of California's initial occupation (Sikes and Arrington 2017: 8).

Within this mosaic environment, grasses such as needlegrass (*Stipa spp*.), bluegrass (*Poa spp*.), and three awn (*Aristida divaricate*) would have been present. Clover (*Trifolium willdenovii*) would have been available in the spring. Tule (*Scirpus sp*.) and stands of willow (*Salix sp*.), cottonwood (*Populus fremontii*), and sycamore (*Platanus erodias*) were supported by the marshy wetlands adjacent to riparian corridors. Regional oak groves would have included blue oak (*Quercus douglasii*), interior live oak (*Q. wislizeni*), and valley oak (*Q. lobata*) (Sikes and Arrington 2017: 8-9).

The larger mammals inhabiting the vicinity would have included mule deer (*Odocoileus hemionus californicus*), black-tailed deer (*O. hemionus columbianus*), tule elk (*Cervus elaphus nannoides*), pronghorn (*Antilocapra americana*), mountain lion (*Felis concolor*), black bear (*Ursus americanus*) and even the now extinct California Grizzly Bear (*Ursus arctos californicus)* in the riparian areas. Small animals, such as badger (*Taxidea taxus*), striped skunk (*Mephitis mephitis*), rabbit (*Sylvilagus sp.),* black tailed jackrabbit (*Lepus californicus*), gray squirrel (*Sciurus griseus*), coyote (*Canis latrans*), and gray fox (*Urocyon cinereoargenteus*) are still prevalent in the area but would have likely existed in larger numbers in the past (Zelazo 2013:13-20; Sikes and Arrington 2017: 8-9).

Waterfowl species would have likely used available marshy areas to feed and grasslands to nest in seasonally while wood ducks (Aix sponsa), resident Canada Goose (*Branta canadensis moffitti*), and mallards (*Anas platyrhynchos*) could have been present year-round. Other common birds include great blue heron (*Ardea erodiass*), the American crow (*Corvus brachyrhynchos*), northern flicker woodpecker (*Colaptes auratus*), red-tailed hawk (*Buteo jamaicensis*), and northern harrier (*Circus cyaneus*), as well as a variety of songbirds (Zelazo 2013: 13-20; Stevens and Zelazo 2015: 172-173; Sikes and Arrington 2017: 8-9).

3.1 GEOLOGY AND SOILS

The valley has been filled with a thick sequence of sediments of marine and continental origins derived from weathering of the adjacent mountain ranges resulting in a stratigraphic section of Cretaceous, Tertiary, and Quaternary deposits. Review of geologic mapping indicates the project is underlain by the Quaternary Riverbank Formation (Qr; Wagner et al. 1981). Sediments in the Riverbank Formation consist of weathered reddish gravel, sand, and silt that form alluvial terraces and fans. In the Sacramento Valley, this formation contains more mafic rock fragments than the San Joaquin Valley and thus tends toward stronger soil-profile developments that are more easily distinguishable from the Modesto Formation (Wagner et al. 1981). Estimates place the age of the Riverbank Formation between 130,000 and 450,000 years before present.

The surficial soils in the APE are comprised of the Hedge, Kimball, San Joaquin, and Reb Bluff series (UCD SoilWeb 2024). The Hedge consists of moderately deep, moderately well drained soils formed in alluvium derived from mixed but dominantly granitic rocks. Hedge soils are on low areas of low terraces. Slopes are 0 to 2 percent. The Kimball series consists of very deep, well drained soils formed in alluvium from mixed sources. Kimball soils are on low terraces and have slopes of 0 to 15 percent. The San Joaquin series consists of moderately deep to a duripan, well and moderately well drained soils that formed in alluvium derived from mixed but dominantly granitic rock sources. They are on undulating low terraces with slopes of 0 to 9 percent. The Red Bluff series consists of very deep, well drained soils formed in old mixed alluvium. Red Bluff soils are on terraces and have 0 to 9 percent slopes.

4 CULTURAL SETTING

4.1 NATIVE AMERICAN PRECONTACT SETTING

A tripartite classification system for cultural change in the Sacramento Valley has been standard since the 1930s. More recently, Rosenthal and others (2007), have adjusted this system based on modern radiocarbon calibration curves for the Georgian/Julian calendar (the terms B.C.E. for Before Common Era and C.E. for Common Era will be used). Based on this new system, the following classification system has been defined for the Precontact Period: Paleo-Indian (11,500–8550 cal [calibrated] B.C.E.), Lower Archaic (8550–5550 cal B.C.E.), Middle Archaic (5550–550 cal B.C.E.), Upper Archaic (550 cal B.C.E.– 1100 cal. C.E.), and Emergent or Late Precontact Period (1100 cal C.E.–Historic Contact).

Subsequent to the Paleo-Indian and Lower Archaic periods, the cultural framework is further divided into three regionally based "patterns." Specific to the project vicinity, there are three regionally based patterns defined by Fredrickson (1994). These are the Windmiller, Berkeley, and Augustine patterns. The patterns mark distinct changes in artifact types, subsistence practices, and settlement patterns, which began circa 5550 cal B.C.E. and lasted until historic contact in the mid-1800s. They were initially identified at three archaeological sites: the Windmiller site (CA-SAC-107) near the Cosumnes River in Sacramento County; the West Berkeley site (CA-ALA-307) on the east side of the San Francisco Bay in Alameda County; and the Augustine site (CA-SAC-127) in the Sacramento–San Joaquin Delta. In general, the patterns conform to three temporal divisions: Middle Archaic Period/Windmiller Pattern, Upper Archaic Period/Berkeley Pattern, Late Precontact Period/Augustine Pattern (Spillane and Hayes 2021: 9).

4.1.1 Paleo-Indian and Lower Archaic Periods (11,500–5550 cal B.C.E.)

There is little evidence of the Paleo-Indian and Lower Archaic periods in the Central Valley (Rosenthal et al. 2007: 151). Recent geoarchaeological studies have found that large segments of the Late Pleistocene landscape throughout the California lowlands have been buried or removed by periodic episodes of deposition and erosion. Periods of climate change and associated alluvial deposition occurred at the end of the Pleistocene (approximately 9050 cal B.C.E.) and at the beginning of the early Middle Holocene (approximately 5550 cal B.C.E.). Earlier studies had also estimated that Paleo-Indian and Lower Archaic sites along the lower stretch of the Sacramento River and San Joaquin River drainage systems had been buried by Holocene alluvium up to 33 feet (10 meters) thick that was deposited during the last 5,000 to 6,000 years (Rosenthal et al. 2007:151; Spillane and Hayes 2021). The formation of the Sacramento–San Joaquin Delta began during the early Middle Holocene. After approximately 1,000 cal B.C.E. during the Late Holocene, there were renewed episodes of alluvial fan and floodplain deposition (Rosenthal et al. 2007).

The archaeological evidence that is available for the Paleo-Indian Period is primarily defined by basally thinned, fluted projectile points. These points are morphologically similar to well-dated Clovis points found elsewhere in North America. In the Central Valley, fluted points have been recovered from remnant features of the Pleistocene landscape at only three archaeological localities, the Woolfsen Mound in Merced County; Tracey Lake in San Joaquin County; and Tulare Lake basin in Kings County (Spillane and Hayes 2021: 10).

4.1.2 Middle Archaic Period/Windmiller Pattern (5550–550 cal B.C.E.)

Archaeological sites dating to the first 3,000 years of the Middle Archaic are relatively scarce in the Sacramento River Valley, mainly due to natural geomorphic processes (Rosenthal et al. 2007). On the valley floor, sites are more common after 2550 cal. B.C.E. The archaeological record in the valley and foothills indicates the subsistence system during this period included a wide range of natural resources (e.g., plants, small and large mammals, fish, and waterfowl) indicating people followed a seasonal foraging strategy. Some researchers (e.g., Moratto 1984) suggest populations may have occupied lower elevations during the winter and moved to higher elevations in the summer. Others (e.g., Rosenthal et al. 2007) suggest there was increasing residential stability along Central Valley River corridors during the Middle Archaic.

Excavations at Windmiller Pattern sites have yielded abundant remains of terrestrial fauna (deer, tule elk, pronghorn, and rabbits) and fish (sturgeon, salmon, and smaller fishes). Projectile points with triangular blades and contracting

stems are common at Windmiller Pattern sites. A variety of fishing implements such as angling hooks, composite bone hooks, spears, and baked clay artifacts, which may have been used as net or line sinkers, are also relatively common. The points are classified within the Sierra Contracting Stem and Houx Contracting Stem series (Spillane and Hayes 2021: 10). The presence of milling implements (grinding slabs, handstones, and mortar fragments) indicate that acorns or seeds were an important part of the Middle Archaic diet.

The presence of numerous trade goods within Middle Archaic assemblages indicate that populations were already part of a complex regional trade network. Obsidian sources include eastern Sierra sources (e.g., Bodie Hills, Casa Diablo, Coso, and Mount Hicks), North Coast Range (e.g., Napa Valley and Borax Lake), and southern Cascades (e.g., Tuscan) (Rosenthal et al. 2007: 155). Olivella shell beads make their first appearance in the study area during the Early Period, indicating trade with Southern California coastal groups (Hughes and Milliken 2007: 268-269). Lastly, burial complexes with large populations and elaborate grave offerings indicate extended residential occupancy.

4.1.1 Upper Archaic Period/Berkeley Pattern (550 cal B.C.E. – 1100 cal. C.E.)

The Upper Archaic is characterized by a shift over a 1,000-year period to the more specialized, adaptive Berkeley Pattern. Excavated archaeological sites dating to the Upper Archaic indicate an increase in mortar and pestle groundstone technology. This change is supported by dated palaeobotanical remains and a decrease in slab milling stones and handstones. Archaeologists generally agree mortars and pestles are better suited to crushing and grinding acorns, while milling slabs and handstones may have been used primarily for grinding wild grass grains and seeds (Spillane and Hayes 2021: 11). New types of shell beads, charmstones, bone tools, and ceremonial blades are additional evidence of the more specialized technology present during this period.

The artifact assemblage in Berkeley Pattern sites demonstrates that populations continued to exploit a variety of plant and animal resources from different environmental zones, including grassland, riparian, and freshwater marsh settings. Deposits of this temporal period have a characteristic well-developed brown midden containing hearth features, fire-fractured rock, storage pits, and house floors. These features indicate that Upper Archaic sites were intensively occupied by large populations (Caltrans 2008: 68; Rosenthal et al. 2007: 156).

Berkeley Pattern artifact assemblages are also characterized by split, saddle and saucer shaped Olivella shell beads, Haliotis ornaments, and a variety of bone tool types. Charmstones are fishtail and asymmetrical spindle-shaped. Mortuary patterns are characterized by flexed burials in variable orientations and a paucity of grave goods. Some cremations have also been recorded in Middle Period cemeteries. Inhumations are sometimes accompanied by animal bones and animal-only burials have also been recorded (Zelazo 2013: 35). Obsidian from the North Coast Ranges and the east side of the Sierra Nevada Range indicate a slight shift in trade patterns away from more northernly sources.

4.1.2 Emergent Period/Augustine Pattern (1100 cal. C.E. – Historic Contact)

The archaeological record for the Emergent or Late Precontact Period shows an increase in the number of archaeological sites associated with the Augustine Pattern in the Sacramento River Valley, as well as an increase in the number and diversity of artifacts. The Emergent Period was shaped by a number of cultural innovations, such as the bow and arrow and intricate fishing technology, as well as an elaborate social and ceremonial organization. Cultural patterns typical of the Emergent Period appear to be reflected in the cultural traditions known from historic period Native American groups.

Faunal and botanical remains recovered at Emergent Period archaeological sites indicate occupants relied on a diverse assortment of mammals, fish, and plants, including acorns and pine nuts. Hopper mortars, shaped mortars, and pestles are among the new technologies that appear during this time period. Small, Gunther barbed series projectile points have been found at sites dating to the early part of the period, while Desert-side notched points appear later in the period. The Stockton serrated arrow point also appears in archaeological assemblages dating to this period and in some parts of the lower Sacramento River Valley Cosumnes Brownware ceramics are present. The appearance of ceramics during this period is likely a direct improvement on the prior baked clay industry (Spillane and Hayes 2021: 12). Complex fishing instruments appear, such as the serrated fish harpoons, composite bone hooks, and the toggle harpoon (Zelazo 2013: 39).

During the Emergent Period, villages were located along major waterways with smaller settlements found in outlying areas. Settlements on natural levees and high spots in floodplains were common. House floors or other structural remains have been preserved at some sites dating to this period. The increase in sedentism and population growth led to the development of social stratification, with an elaborate social and ceremonial organization. Examples of items associated with rituals and ceremonials include flanged tubular pipes, incised patterned bird bone tubes and whistles, and baked clay effigies representing animals and humans. Mortuary practices changed to include flexed burials, cremations with grave goods and offerings, and pre-interment burning in a burial pit. Currency, in the form of clamshell disk beads, also developed during the later part of the period together with extensive exchange networks that included the Pacific Northwest and southern California (Spillane and Hayes 2021: 12; Rosenthal et al. 2007: 159).

4.2 ETHNOGRAPHY

Although the APE is located in what is ethnographically defined as predominantly Plains Miwok territory, the boundaries documented in ethnographic literature are based on conditions after the Gold Rush, when population pressures would have forced the movements of indigenous groups due to the influx of Euroamericans. In this region specifically, Bennyhoff (1977) notes that labor demands by John Sutter pushed the Nisenan (northern neighbors of the Plans Miwok) into Plains Miwok areas. Areas where precontact and ethnographic boundaries are not certain are referred to as grey areas; precontact sites identified within these grey areas may offer answers to important research questions.

The Plains Miwok are part of the larger Eastern Miwok group that forms one of the two major divisions of the Miwokan subgroup of the Utian speakers. The Plains Miwok lived in the Sacramento Valley along the Sacramento, Cosumnes, and Mokelumne rivers. They built their homes on high ground, with major villages concentrated along the major waterways. Conical homes were constructed with poles and thatching of brush, grass, or tule, though semisubterranean earth-covered homes were built as well. Major villages contained an assembly house, which was a semisubterranean structure with a diameter of 40 to 50 ft, as well as a sweathouse, which was a scaled-down version of the assembly house (Levy 1978). Plains Miwok people utilized the rich resources of the delta and surrounding area for both dietary needs and material culture. Tules were woven into matting and clothing, bundled to form canoes, and used in house and granary construction. Salt, nuts, basketry, and obsidian were obtained through trade with neighboring tribes to the east for shells, basketry, and bows obtained in turn through trade from tribes located to the west (Levy 1978).

The Plains Miwok gathered food resources as the seasons varied. As with most California tribes, they subsided heavily on the acorn, but also gathered nuts, seeds, roots, greens, berries, and mushrooms. Animal foods included tule elk, pronghorn antelope, jackrabbits, squirrels, beaver, quail, and waterfowl. Salmon was the dominant animal food resource, ranking above other river resources, such as sturgeon. Technological items of the Plains Miwok included wooden digging sticks, poles, and baskets used for gathering vegetal resources, and stone mortars, pestles, and cooking stones used for processing. Items used for obtaining animal resources included nets, snares, seines, bows, and arrows. Arrow points were made primarily of basalt and obsidian (Levy 1978).

4.3 CONTEMPORARY NATIVE AMERICAN SETTING

The members of Wilton Rancheria are descendants of the Penutian linguistic family identified as speaking the Miwok dialect. The Tribe's Indigenous territory encompasses Sacramento County. The lands the Tribe's ancestors inhabited were located along a path of massive death and destruction of California Indians caused by Spanish, Mexican, and American military incursions, disease and slavery, and the violence accompanying mining and settlements (Wilton Rancheria 2024).

The Tribe's ancestors came back from nearly being annihilated only to have their children taken to boarding schools that stripped their indigenous language and culture further. Finally in July of 1928 the United State of America acquired land in trust for the Miwok people that were living in Sacramento County. A 38.77-acre tract of land in Wilton, Sacramento County, California was purchased from the Cosumnes Company which formally established the Wilton Rancheria. In 1958, the United States Congress enacted the Rancheria Act, authorizing the termination of federal trust responsibilities to 41 California Indian Tribes including Wilton Rancheria. The Tribe official lost its Federal Recognition in 1964.

Congress reconsidered their policy of termination in favor of Indian self-determination in the 1970s. In 1991, surviving members of Wilton Rancheria reorganized their tribal government and in 1999 they requested the United States to formally restore their federal recognition. Ten years later a decision of a U.S. District Court Judge gave Wilton Rancheria restoration, restoring the Tribe to a Federally Recognized Tribe in 2009. Wilton Rancheria is a federally recognized Indian Tribe as listed in the Federal Register, Vol. 74, No. 132, p. 33468-33469, as "Wilton Rancheria of Wilton, California." The Tribe passed their constitution in 2011. It stated its four branches of government that includes the Office of the Chair & Vice Chair, the Tribal Council, a Tribal-Court, and the General Council (Wilton Rancheria 2024).

4.4 EUROMERICAN HISTORIC SETTING

4.4.1 Regional History

Spanish exploration of the Central Valley dates to the late 1700s, but exploration of the northern section of the Central Valley and contact with its Native American population did not begin until the early 1800s. The second quarter of the 19th century encompasses the Mexican Period (ca. 1821–1848) in California. This period is an outgrowth of the Mexican Revolution, and its accompanying social and political views affected the mission system across California. In 1833, the missions were secularized, and their lands divided among the *Californios* as land grants called *ranchos*. These ranchos facilitated the growth of a semi-aristocratic group that controlled the larger ranchos. The work on these large tracts of land was accomplished by the forced labor of local Native Americans (ECORP 2020: 17-18).

Simultaneously with the exploration of the Central Valley, trails were being blazed across the Sierra Nevada plains and mountains, facilitating the westward migration of Euro-Americans. Early immigrants to California are typified by groups such as the 1841 Bartleson-Bidwell party and the 1844 Stevens-Murphy party. The commencement of the Mexican-American War in 1846 also affected the exploration and development of California, including the identification of new trails across the Sierra Nevada. The exploits of the Mormon Battalion and the establishment of the Mormon Emigrant Trail across the Sierra Nevada highlight these activities.

The discovery of gold at Sutter's Mill in Coloma in 1848 was the catalyst that caused a dramatic alteration of both Native American and Euro-American cultural patterns in California. After news of the discovery of gold spread, a flood of Euro-Americans entered the region and gravitated to the area of the "Mother Lode." Initially, the Euro-American population grew slowly, but soon it exploded as the presence of large deposits of gold was confirmed in the Sacramento area. The Euro-American population of California quickly swelled, from an estimated 4,000 in 1848 to 500,000 in 1850. Sacramento, established in 1848 by John A. Sutter, also grew in population and was incorporated as a city in 1850 (ECORP 2020: 18).

4.4.2 Local History

Exploration into the Sacramento Valley began in the early 1800s via colonization and the establishment of missions. One of the early explorers, a Spaniard name Gabriel Moraga, is responsible for naming the valley region "Sacramento," which means "the Holy Sacrament." Latin influence in the region continued in the early 1800s as Mexico gained independence from Spain and began sending explorers to Sacramento in 1822. While the area was technically under Mexican rule by 1824, the area was still inhabited by numerous Native Americans. Sacramento history goes back to 1839 when John Sutter arrived on the shore near the confluence of the American and Sacramento rivers. The history of Sacramento has been shaped by its location near the Sacramento and American rivers. These rivers provided transportation, irrigation, and food supply for early settlers (City of Sacramento 2015; City of Sacramento 2024).

The northern portion of the APE (Aspen V South/VIII) lies within the Rancho Rio de los Americanos, a grant of over 35,500 acres on the south side of the American River (Peak & Associates 2016: 14). The land grant was given to William Leidesdorff by the Mexican government in 1848. Over the years, in the 1860s and 1870s, almost all the land in the APE and vicinity was taken up for agricultural purposes (Peak & Associates 2016: 15).

5 RESULTS

5.1 BACKGROUND RESEARCH

The results of the NCIC records search found that two historic era resources have been previously identified within the APE and that 99 percent of the APE has been previously surveyed for cultural resources. One built environment resource (P-34-00690), a ranch and associated buildings, has been previously recorded and evaluated and determined not eligible for the NRHP. The second resource (P-34-001867), structural foundations of a farmhouse, has been recommended not eligible for both the CRHR and NRHP. SHPO concurred with the ineligibility of both of these resources.

Review of the 1866 GLO plat map; historic USGS topographic maps starting in 1902; and historic aerials starting in 1947, revealed that the APE was largely undeveloped. The APE has largely been used for grazing and the only development was a building (also recorded as P-34-001867) constructed on or before 1866 that is no longer present.

5.2 PEDESTRIAN SURVEY RESULTS

The pedestrian survey found that the APE currently consists of grazing fields with livestock. The entirety of the APE was surveyed using 15 meter transects. Ground visibility was poor (0-15 percent) due to the majority of the APE being covered in dense grasses. During the pedestrian survey, all visible ground surface in the APE was carefully examined for cultural material (e.g., flaked stone tools, tool-making debris, stone milling tools, or fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions and features indicative of the former presence of structures or buildings (e.g., postholes, foundations), or historic-era debris (e.g., metal, glass, ceramics). Ground disturbances (e.g., animal burrows, embankments, graveled or dirt roads, etc.) were visually inspected. A modern well was discovered during the pedestrian survey, but the topographic maps and the well completion report for the County of Sacramento were reviewed to confirm that this well is not of historic age (CDWR 2024). No archaeological sites (or isolates) and built-environment resources were encountered as a result of this survey. The current status of the previously recorded resources identified by the NCIC is discussed below.

A digital camera was used to take photographs of the APE and a selection of these are provided in Figures 5-1 through 5-4.

P-34-000690

P-34-000660, also known as Cracker Jack House, consisted of a house with a water tower, a large barn, some horse stalls, and various outbuildings associated with the ranch. This built environment resource was previously evaluated as not eligible for NRHP with SHPO concurrence (Widell 1997). This resource was no longer present when it was revisited as part of this current investigation.

P-34-001867

P-34-001867, also known as 7050 Knox Road, is a former farm headquarters comprised of foundation pads and some minor structural features. This historic-era archaeological resource was previously evaluated as not eligible for NRHP with SHPO concurrence (Polanco 2015). It was also evaluated by Peak & Associates (2014) as not eligible for the CRHR because; it is not associated with any known person or event of historic significance (Criterion 1 and 2); there are no surviving buildings (Criterion 3); and there is no indication that archaeological excavations would return any information of significant (Criterion 4). This site was relocated during the 2024 survey effort, and it remains unchanged since it was evaluated in 2014.



Source: Ascent Environmental in 2024.

Overview of APE with no surface ground visibility. West view. Taken on February 13, 2024.



Source: Ascent Environmental in 2024.

Wetlands within the APE obscuring ground surface visibility. South view. Taken on February 13, 2024

Figure 5-1 Aspen VIII



Source: Ascent Environmental in 2024.

Soil stratigraphy along the northern portion of Aspen VIII. North view. Taken on February 13, 2024.



Source: Ascent Environmental in 2024.

Soil stratigraphy along the southern portion of Aspen VIII. North view. Taken on February 13, 2024.

Figure 5-2 Aspen VIII Soils



Source: Ascent Environmental in 2024.

Tilled ground around the perimeter of the APE. West view. Taken on February 13, 2024.



Source: Ascent Environmental in 2024.

Overview of APE with no surface ground visibility. East view. Taken on February 13, 2024.

Figure 5-3 Aspen IX Western Portion



Source: Ascent Environmental in 2024.

Wetlands within the APE obscuring ground surface visibility. North view. Taken on February 14, 2024.



Source: Ascent Environmental in 2024.

Wetlands within the APE obscuring ground surface visibility. South view. Taken on February 13, 2024

Figure 5-4 Aspen IX Eastern Portion

5.3 POTENTIAL FOR BURIED ARCHAEOLOGICAL DEPOSITS

There is one geologic unit present in the APE, the Qr and the surficial soils within the APE are the Hedge, Kimball, San Joaquin, and Red Bluff series (Wagner et al. 1981; UCD SoilWeb 2024). Because the Qr material formed long before the first human occupation of the area, it is very unlikely to contain or to have buried archaeological resources. The overlying soils of the San Joaquin Series are younger, dating to the Late Holocene (2,000 to 150 years ago; Rosenthal and Meyer 2004a, 2004b), and so are generally more sensitive for buried cultural remains. The Red Bluff, Hedge, and Kimball series are older soils dating to the Pleistocene, which is before human occupation, are unlikely to contain or to have buried archaeological resources (Rosenthal and Meyer 2004a, 2004b).

Landscape evolution and historic and modern development can impact the visibility of the archaeological record, but research has shown that archaeological sites tend to occur in specific geo-environmental settings (e.g., near reliable water sources and on stable land surfaces) rather than randomly throughout the landscape. For example, geoarchaeological studies have found that distance to water sources (e.g., stream, lake, spring) and landform slope (generally <18%) are two environmental variables that help accurately predict a location's potential to contain buried archaeological deposits (e.g., Caltrans 2010; Caltrans 2008; Rosenthal and Meyer 2004a, 2004b). The topography of the terrain in the APE is relatively flat. The Morrison Creek runs roughly east/west directly north of the northern portion of the APE. The Elder Creek runs roughly east/west directly north of the southern portion of the APE. The APE has been historically used for agriculture and landscaped for that purpose. Therefore, due to the age of the soils present, history of land use, and the negative results of the current survey across most of the APE suggest that the potential for the presence of buried deposits of cultural resources in the APE is low.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 FINDINGS AND CONCLUSIONS

In accordance with Section 106 of the NHPA (36 CFR part 800) and CEQA (PRC 15064.5 and PRC 15126.4), the effects of the proposed project within the APE have been assessed. A full accounting of all potential cultural resources located within the APE was achieved through a records search, literature review, Native American outreach, and field survey. The entire APE was surveyed for cultural resources on February 13 and 14, 2024. P-34-000660, Cracker Jack House, was no longer present when it was revisited as part of this current investigation. P-34-001867, 7050 Knox Road, was relocated as part of this investigation but was evaluated as not eligible for the NRHP with SHPO concurrence (Polanco 2015) and recommended not eligible for the CRHR by Peak & Associates (2014). No new cultural resources were identified as part of this survey effort. As such, a finding of no historic properties affected is recommended under Section 106 and a finding of no impact to historical resources is recommended under CEQA. No further investigation is recommended.

6.2 RECOMMENDATIONS

Both the background research, which includes the NCIC record search results, literature review, tribal outreach efforts, and the pedestrian field survey failed to identify the presence of archaeological resources within the APE. Further, the potential for subsurface deposits in the majority of the APE is considered to be low due to the age of the soils present, history of land use, and the negative results of the current survey. The APE has been subject to significant grazing activity. In addition, the analysis of the geoarchaeological data concluded that the APE has very low sensitivity for archaeological resources. No impacts to cultural resources are expected as a result of project actions within this area. However, it is still recommended that the following measures be applied to the project.

- Inadvertent Discoveries: If archaeological materials are inadvertently discovered during ground-disturbing activities, including midden soils, stone tools, chipped stone, baked clay, or concentrations of shell, bone, charcoal, glass, metal, or ceramics, all work shall cease within 100 feet (30.5 meters) of the find and the services of a professional archaeologist shall be retained immediately. At that time, the County of Sacramento shall coordinate any necessary investigation of the site with the archaeologist as needed to evaluate the significance of the resource per PRC Section 5024.1 and 21083.2(g) and provide proper management recommendations. If the find is determined to be a historical resource and/or a unique archeological resource, contingency funding and a time allotment sufficient to allow for implementation of avoidance measures and/or mitigation will be made available. Possible management recommendations for significant resources could include resource avoidance or data recovery excavations. The contractor shall implement any measures deemed necessary by the archeologist for the protection of the cultural resources. Do not resume work in the area of the discovery until directed to do so by the archaeologist.

Discovery of human remains is not expected; however, if human remains should be discovered, the following measure should be implemented.

- Inadvertent Discovery of Human Remains: If human remains are discovered during construction activities, work within 100 feet (30 meters) of the remains shall be stopped immediately, and the project proponent shall notify the Sacramento County Coroner, in accordance with Section 5097.98 of the PRC and Section 7050.5 of California's Health and Safety Code. If the remains are determined by the coroner to be Native American, the coroner will notify the Native American Heritage Commission within 24 hours, and they will designate a Most Likely Descendant (MLD). Together the landowner and the MLD shall determine the ultimate treatment and disposition of the remains in accordance with PRC Section 5097.94.

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Appendix A

Record Search Results

California Historical Resources Information System

NORTH CENTRAL INFORMATION CENTER

AMADOR
EL DORADO
NEVADA
PLACER
SACRAMENTO
YUBA

California State University, Sacramento
6000 J Street, Folsom Hall, Suite 2042
Sacramento, California 95819-6100
phone: (916) 278-6217
fax: (916) 278-5162
email: ncic@csus.edu

2/2/2024 NCIC File No.: SAC-24-17

Roberto Mora
Ascent Environmental, Inc.
455 Capitol Mall, Ste 300
Sacramento, CA 95814

Re: 20230225.01 Aspen IX - Cultural

The North Central Information Center (NCIC) received your records search request for the project area referenced above, located on the Carmichael USGS 7.5' quad. The following reflects the results of the records search for the project area and a ½-mi radius.

As indicated on the data request form, the locations of resources and reports are provided in the following format: ☒ custom GIS maps ☐ GIS data

Recorded resources within project area:	P-34-690 P-34-1867
Recorded resources outside project area, within radius:	See list below
Known reports within project area:	88 3011 8912 12378
Known reports outside project area, within radius:	See list below

Resource Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed/NA
Resource Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed/NA
Resource Digital Database Records:	☒ enclosed	☐ not requested	☐ nothing listed/NA
Report Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed/NA
Report Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed/NA
Report Digital Database Records:	☒ enclosed	☐ not requested	☐ nothing listed/NA
Resource Record Copies:	☒ enclosed	☐ not requested	☐ nothing listed/NA
Report Copies:	☒ enclosed	☐ not requested	☐ nothing listed/NA
Built Environment Resources Directory:	☒ enclosed	☐ not requested	☐ nothing listed/NA
Archaeological Resources Directory:	☐ enclosed	☐ not requested	☒ nothing listed/NA
CA Inventory of Historic Resources (1976):	☐ enclosed	☐ not requested	☒ nothing listed/NA

Caltrans Bridge Survey:	☐ enclosed	☒ not requested	☐ nothing listed/NA
Ethnographic Information:	☐ enclosed	☒ not requested	☐ nothing listed/NA
Historical Literature:	☐ enclosed	☒ not requested	☐ nothing listed/NA
Historical Maps:	☐ enclosed	☒ not requested	☐ nothing listed/NA
Local Inventories:	☐ enclosed	☒ not requested	☐ nothing listed/NA
GLO and/or Rancho Plat Maps:	☐ enclosed	☒ not requested	☐ nothing listed/NA
Shipwreck Inventory:	☐ enclosed	☒ not requested	☐ nothing listed/NA
Soil Survey Maps:	☐ enclosed	☒ not requested	☐ nothing listed/NA

Please forward a copy of any resulting reports and resource records from this project to NCIC as soon as possible. The lead agency/authority and cultural resources consultant should coordinate sending documentation to NCIC. Digital materials are preferred and can be sent to our office via our file transfer system. Please contact NCIC for instructions. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, it is possible that not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the California Historical Resources Information System (CHRIS) Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the records search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Sincerely,

Paul Rendes, Coordinator
North Central Information Center

Recorded resources outside project area, within radius:

PrimCo	PrimNo
34	000689
34	001507
34	001597
34	001627
34	001669
34	001865
34	001866
34	002474
34	003864
34	003872
34	004815
34	004816
34	004817
34	005196
34	005302
34	005492
34	005493
34	005494

Known reports outside project area, within radius:

DocNo
002385
006042
006080
006097
007069
007948
008062
008911
009136
009326
009989
010353
010735
011363
011723
013845

Resource List

Primary Number	Trinomial Number	Other ID	Type	Age	Attributes Codes	Recorded	Report
P-34-000689		Other - #21; Resource Name - Resource no. 2; Other - 5831 and 5841 Bradshaw Road	Building	Historic	AH04; HP02; HP33	1996 (Stephen Mikesell, JRP Historical Consulting); 2003 (Madeline Bowen, Jones & Stokes)	013845
P-34-000690		Resource Name - Cracker Jackson Ranch	Building	Historic	HP02; HP04; HP33	1996 (Stephen Mikesell, JRP Historical Consulting)	
P-34-001507		Resource Name - 5861 Bradshaw Road; Other - Resource no. 4	Building	Historic	HP02	2003 (Madeline Brown, Jones & Stokes); 2006 (Robert Gerry, Peak and Associates, Inc.)	007067, 013845
P-34-001597		Other - E-1	Site	Historic	AH06; AH08	2005 (J.W. Dougherty, PAR Environmental Services, Inc.); 2013 (Ric Windmiller, Consultant)	007948, 011363
P-34-001627		Other - EC-06-82	Object	Historic	HP39	2006 (M. Guerrero and K. Johnson, ECORP Consulting, Inc.)	008062
P-34-001669		Other - PA-06-131	Site	Historic	AH04	2006 (Ann Peak, Peak and Associates, Inc.)	007067
P-34-001865			Building	Historic	HP02	2006 (Robert Gerry, Peak and Associates, Inc.); 2014 (Robert Gerry, Peak & Associates, Inc.)	008912, 012378
P-34-001866			Building	Historic	HP02	2006 (Robert Gerry, Peak and Associates, Inc.); 2014 (Robert Gerry, Peak & Associates, Inc.)	008912, 012378
P-34-001867	CA-SAC-001027H	Other - 7050 Knox Road	Site	Historic	AH02; AH11; HP02; HP39; HP46	2006 (Robert Gerry, Peak and Associates, Inc.); 2014 (Robert Gerry, Peak & Associates, Inc.)	008912, 012378
P-34-002474		OHP PRN - 5670-0001-0000; Other - Bridge #24-62	Structure	Historic	HP19; HP95	1979 (Carroll Pursell, UCSB)	
P-34-003864		Other - JS-Elk Grove 1H	Building	Historic	HP33	2005 (C Fish, Jones and Stokes)	009989
P-34-003872		Other - JS-Carmichael-1H	Structure	Historic	AH05	2005 (C Fish, Jones and Stokes)	009989
P-34-004815	CA-SAC-001171	Other - Resource #13	Site	Historic	AH02; AH11; AP15	1996 (J. Haney, W. Shapiro, J. Scott, Garcia and Associates)	003011
P-34-004816	CA-SAC-001172	Other - Resource #14	Site	Historic	AH02	1996 (J. Haney, W. Shapiro, J. Scott, Garcia and Associates)	003011

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Pr□□ □r□ N□□	Tr□□□□ □□□	O□□□r ID□	T□□□	A□□	A□r□□□□ □□d□□	R□□□rd□d □□	R□□□r□□
P-34-004817	CA-SAC-001173	Other - Resource #15	Site	Historic	AH02; AH04	1996 (J. Haney, W. Shapiro, J. Scott, Garcia and Associates)	003011
P-34-005196		Resource Name - 9990 Elder Creek	Building	Historic	HP02	2014 (Robert Gerry, Michael Lawson, Peak & Associates, Inc.)	012378
P-34-005302	CA-SAC-001263H	Resource Name - Pioneer House; Other - Pioneer Tavern/Nine Mile House	Site, Element of district	Historic	AH04	2016 (Ian Springer, Brian James, Caltrans District 3)	
P-34-005492		Resource Name - 5781 Bradshaw Road; Other - Resource no. 1	Building	Historic	HP33	2003 (Madeline Bowen, Jones & Stokes)	013845
P-34-005493		Resource Name - 6059 Bradshaw Road; Other - Resource no. 3	Building	Historic	HP06	2003 (Madeline Bowen, Jones & Stokes)	013845
P-34-005494		Resource Name - Bridge No. 24C0341; Other - Resource no.5	Structure	Historic	HP19	2003 (Madeline Bowen, Jones & Stokes)	013845

Resource Record

Identification

Primary No.: P-34-000689
Trinomial:
Name: Resource no. 2
Other IDs:

Type	Name
Other	#21
Resource Name	Resource no. 2
Other	5831 and 5841 Bradshaw Road

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: AH04 (Privies/dumps/trash scatters); HP02 (Single family property); HP33 (Farm/ranch)
Disclosure: Not for publication
Collections: No
Accession no(s):
Facility:

Geography

Recorded by

Date	Recorder(s)	Affiliation	Notes
1/26/1996	Stephen Mikesell	JRP Historical Consulting	
6/3/2003	Madeline Bowen	Jones & Stokes	Update

Associated reports

Report No.	Year	Title	Affiliation
013845	2003	Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors	Jones & Stokes

Location

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
5831 & 5841 Bradshaw Road	Sacramento (vicinity)	063-0190-025	95829

PLSS:
UTMs:

Map

Data entry record and update

Entered: 11/13/2006 jay
Last modified: 4/27/2022 paulrendes
IC actions:

Date	User	Action taken
11/13/2006	jay	Imported data from NCIC Excel spreadsheet
3/25/2008	Machiel	Imported data from site record

Record status: Verified

Record Detail Page

Identification Information

Primary No.: P-34-000690
Trinomial:
Name: Cracker Jackson Ranch
Other IDs:

Type	Name
Resource Name	Cracker Jackson Ranch

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP02 (Single family property); HP04 (Ancillary building); HP33 (Farm/ranch)
Disclosure: Not for publication
Collections: No
Accession no(s):
Facility:

Geography

Recorded by

Date	Recorder(s)	Affiliation	Notes
1/26/1996	Stephen Mikesell	JRP Historical Consulting	

Additional recorders

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
10004 Jackson Road	Sacramento	063-0190-027 063-0170-021	

PLSS:
UTMs: Zone 10 646380mE 4265100mN NAD27

Management

Data Entry Record and Update

	Date	User
Entered:	11/13/2006	jay
Last modified:	8/26/2014	kmr37

IC actions:

Date	User	Action taken
11/13/2006	jay	Imported data from NCIC Excel spreadsheet
3/25/2008	Machiel	Imported data from site record

Record status: Verified

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Primary No.: P-34-001507
Trinomial:
Name: 5861 Bradshaw Road
Other IDs:

Type	*Name*
Resource Name	5861 Bradshaw Road
Other	Resource no. 4

Cross-refs:

A□r□□□□□

Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

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Date	*Recorder(s)*	*Affiliation*	*Notes*
5/2/2006	Robert Gerry	Peak and Associates, Inc.	Update
6/3/2003	Madeline Brown	Jones & Stokes	

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Report No.	*Year*	*Title*	*Affiliation*
007067	2006	Determination of Eligibility and Effect for the Aspen V Project Sacramento County, CA	
013845	2003	Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors	Jones & Stokes

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County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
5861 Bradshaw Road		063-0190-022	95829

PLSS: T8N R6E SW¼ of NW¼ of Sec. 28 MDBM
UTMs: Zone 10 645310mE 4264645mN NAD27

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	Date	*User*	
Entered:	11/13/2006	jay	
Last modified:	4/27/2022	paulrendes	
IC actions:	*Date*	*User*	*Action taken*
	11/13/2006	jay	Imported data from NCIC Excel spreadsheet
	3/25/2008	Machiel	Imported data from site record

Record status: Verified

Record Details

Identification

Primary No.: P-34-001597
Trinomial:
Name:
Other IDs:

Type	Name
Other	E-1

Cross-refs:

Attributes

Resource type: Site
Age: Historic
Information base: Survey
Attribute codes: AH06 (Water conveyance system); AH08 (Dams)
Disclosure: Unrestricted
Collections: Unknown
Accession no(s):
Facility:

Geography

Recorded by

Date	Recorder(s)	Affiliation	Notes
3/11/2005	J.W. Dougherty	PAR Environmental Services, Inc.	
7/9/2013	Ric Windmiller	Consultant	update

Associated reports

Report No.	Year	Title	Affiliation
007948	2005	Cultural Resources Assessment of the Excelsior Road Well Field, Well no. 4 project, Control Number 04-0918 (PAR No. 05-5003-001)	PAR Environmental Services, Inc.
011363	2013	SCWA Well #4 Cultural Resources Inventory and Evaluation Sacramento County, California	Consulting Archaeologist

Location

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
10434 Elder Creek Road	Sacramento		

PLSS: T8N R6E NE¼ of NE¼ of Sec. 34 MDBM
UTMs: Zone 10 648267mE 4263497mN NAD27

Maps

Data entry and modification

	Date	User	
Entered:	12/11/2006	erin	
Last modified:	6/27/2017	jacobmackey	
IC actions:	*Date*	*User*	*Action taken*
	3/25/2008	Machiel	Imported data from site record

Record status: Verified

Report Display Page

Identification Information

Primary No.: P-34-001627
Trinomial:
Name:
Other IDs:

Type	Name
Other	EC-06-82

Cross-refs:

Attributes

Resource type: Object
Age: Historic
Information base: Survey
Attribute codes: HP39 (Other) - pea gravel concrete trough
Disclosure: Not for publication
Collections: No
Accession no(s):
Facility:

Geography

Recorded by

Date	Recorder(s)	Affiliation	Notes
3/27/2006	M. Guerrero and K. Johnson	ECORP Consulting, Inc.	

Associated reports

Report No.	Year	Title	Affiliation
008062	2006	Cultural Resources Survey and Evaluation North Vineyard Station Off-Site (WBIG) Project	Ecorp

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS: T8N R6E SW¼ of NE¼ of Sec. 27 MDBM
UTMs: Zone 10 647649mE 4265598mN NAD27

Management

Data entry record and update

	Date	User	
Entered:	1/9/2007	maya	
Last modified:	6/29/2017	jacobmackey	
IC actions:	*Date*	*User*	*Action taken*
	3/25/2008	Machiel	Imported data from site record
	3/26/2009	Ellen	Edited Identifiers
Record status:	Verified		

Record of Prehistoric Resource

Identification Information

Primary No.: P-34-001669
Trinomial:
Name:
Other IDs:

Type	Name
Other	PA-06-131

Cross-refs:

Attributes

Resource type: Site
Age: Historic
Information base: Surface collection
Attribute codes: AH04 (Privies/dumps/trash scatters)
Disclosure: Unrestricted
Collections: Yes
Accession no(s):
Facility: Peak & Associates, Inc.

Geography

Recording Information

Date	Recorder(s)	Affiliation	Notes
10/8/2006	Ann Peak	Peak and Associates, Inc.	

Associated Report

Report No.	Year	Title	Affiliation
007067	2006	Determination of Eligibility and Effect for the Aspen V Project Sacramento County, CA	

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
		063-0200-010	

PLSS: T8N R6E SE¼ of SW¼ of Sec. 21 MDBM
UTMs: Zone 10 645625mE 4265350mN NAD27

Map Information

Database Record Added

	Date	User	
Entered:	5/1/2007	nathan	
Last modified:	4/18/2023	paulrendes	
IC actions:	*Date*	*User*	*Action taken*
	3/25/2008	Machiel	Imported data from site record
	10/22/2008	AISHA	Added site to GIS

Record status: Verified

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Primary No.: P-34-001865
Trinomial:
Name:
Other IDs:
Cross-refs:

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Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

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Date	Recorder(s)	Affiliation	Notes
8/19/2006	Robert Gerry	Peak and Associates, Inc.	
4/4/2014	Robert Gerry	Peak & Associates, Inc.	update

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Report No.	Year	Title	Affiliation
008912	2007	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak and Associates, Inc.
012378	2014	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak & Associates, Inc.

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County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
10,000 Elder Creek Road	Sacramento	066-0020-006	

PLSS: T8N R6E NE¼ of NE¼ of Sec. 33 MDBM
UTMs: Zone 10 646820mE 4263600mN NAD27

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	Date	User	
Entered:	9/24/2007	nathan	
Last modified:	11/6/2017	paulrendes	
IC actions:	*Date*	*User*	*Action taken*
	7/18/2008	Machiel	Imported data from resource record
	11/6/2017	paulrendes	entered 4/4/2014 recording

Record status: Verified

Id□□□□□□□□ □□□□r□ □□□□

Primary No.: P-34-001866
Trinomial:
Name:
Other IDs:
Cross-refs:

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Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

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Date	*Recorder(s)*	*Affiliation*	*Notes*
8/19/2006	Robert Gerry	Peak and Associates, Inc.	
4/14/2014	Robert Gerry	Peak & Associates, Inc.	update

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Report No.	*Year*	*Title*	*Affiliation*
008912	2007	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak and Associates, Inc.
012378	2014	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak & Associates, Inc.

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County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
10,151 Elder Creek Road	Sacramento	063-0160-001	

PLSS: T8N R6E SW¼ of SW¼ of Sec. 27 MDBM
UTMs: Zone 10 647175mE 4263710mN NAD27

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	Date	*User*	
Entered:	9/24/2007	nathan	
Last modified:	11/6/2017	paulrendes	
IC actions:	*Date*	*User*	*Action taken*
	7/18/2008	Machiel	Imported data from resource record
	11/6/2017	paulrendes	entered 4/4/2014 recording

Record status: Verified

Id□□□□□□□□ □□□r□ □□□□

Primary No.: P-34-001867
Trinomial: CA-SAC-001027H
Name:
Other IDs:

Type	*Name*
Other	7050 Knox Road

Cross-refs:

A□r□□□□

Resource type: Site
Age: Historic
Information base: Survey
Attribute codes: AH02 (Foundations/structure pads); AH11 (Walls/fences); HP02 (Single family property); HP39 (Other) - water tank; HP46 (Walls/gates/fences)
Disclosure: Unrestricted
Collections: Unknown
Accession no(s):
Facility:

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Date	*Recorder(s)*	*Affiliation*	*Notes*
8/19/2006	Robert Gerry	Peak and Associates, Inc.	
4/4/2014	Robert Gerry	Peak & Associates, Inc.	update

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Report No.	*Year*	*Title*	*Affiliation*
008912	2007	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak and Associates, Inc.
012378	2014	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak & Associates, Inc.

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County: Sacramento
USGS quad(s): CARMICHAEL, ELK GROVE
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
7050 Knox Road	Sacramento	066-0050-012	

PLSS: T8N R6E NE¼ of SE¼ of Sec. 33 MDBM
UTMs: Zone 10 648800mE 4262685mN NAD27

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	Date	*User*
Entered:	9/24/2007	nathan
Last modified:	4/18/2023	paulrendes

IC actions:

Date	*User*	*Action taken*
3/25/2008	Machiel	Imported data from site record
11/6/2017	paulrendes	entered 4/4/2014 recording

Record status: Verified

Record Details Report

Identification Information

Primary No.: P-34-002474
Trinomial:
Name:
Other IDs:

Type	Name
OHP PRN	5670-0001-0000
Other	Bridge #24-62

Cross-refs:

Attributes

Resource type: Structure
Age: Historic
Information base: Survey
Attribute codes: HP19 (Bridge); HP95 (Concrete Construction)
Disclosure: Not for publication
Collections: Unknown
Accession no(s):
Facility:

Geography

Approximate location plotted in GIS

Recorded by

Date	Recorder(s)	Affiliation	Notes
9/1/1979	Carroll Pursell	UCSB	

Additional resource

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
	Rancho Cordova		

PLSS:
UTMs: Zone 10 645900mE 4265450mN NAD27

Map

Data Entry / Record Status

	Date	User	
Entered:	6/2/2009	aisha	
Last modified:	7/18/2017	jacobmackey	
IC actions:	*Date*	*User*	*Action taken*
	6/2/2009	aisha	Uploaded from HAER record
	8/27/2009	kate	Approximate location plotted in GIS

Record status: Verified

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Primary No.: P-34-003864
Trinomial:
Name:
Other IDs:

Type	*Name*
Other	JS-Elk Grove 1H

Cross-refs:

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Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP33 (Farm/ranch)
Disclosure: Not for publication
Collections: Unknown
Accession no(s):
Facility:

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Date	*Recorder(s)*	*Affiliation*	*Notes*
9/21/2005	C Fish	Jones and Stokes	

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Report No.	*Year*	*Title*	*Affiliation*
009989	2008	Cultural Resources Inventory and Evaluation Report for the Freeport Regional Water Project, Sacramento and San Joaquin Counties, California	Jones and Stokes

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County: Sacramento
USGS quad(s): ELK GROVE
Address:
PLSS: T7N R6E SW¼ of SE¼ of Sec. 34 MDBM
UTMs: Zone 10 647049mE 4262425mN NAD27

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	Date	*User*	
Entered:	8/6/2009	aisha	
Last modified:	7/31/2017	wagner	
IC actions:	*Date*	*User*	*Action taken*
	8/6/2009	aisha	added from site record
	7/31/2017	wagner	Verified

Record status: Verified

Record of Prehistoric Resource

Identification Information

Primary No.: P-34-003872
Trinomial:
Name:
Other IDs:

Type	Name
Other	JS-Carmichael-1H

Cross-refs:

Attributes

Resource type: Structure
Age: Historic
Information base: Survey
Attribute codes: AH05 (Wells/cisterns)
Disclosure: Not for publication
Collections: Unknown
Accession no(s):
Facility:

Geography

Recorded by

Date	Recorder(s)	Affiliation	Notes
9/28/2005	C Fish	Jones and Stokes	

Associated Reports

Report No.	Year	Title	Affiliation
009989	2008	Cultural Resources Inventory and Evaluation Report for the Freeport Regional Water Project, Sacramento and San Joaquin Counties, California	Jones and Stokes

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS: T8N R6E SW¼ of Sec. 34 MDBM
UTMs: Zone 10 646883mE 4263039mN NAD27

Management

Data Entry and Record Status

	Date	User	
Entered:	8/6/2009	aisha	
Last modified:	7/31/2017	wagner	
IC actions:	*Date*	*User*	*Action taken*
	8/6/2009	aisha	added from site record
	7/31/2017	wagner	Verified

Record status: Verified

Resource Detail

Identification

Primary No.: P-34-004815
Trinomial: CA-SAC-001171
Name:

Other IDs:	*Type*	*Name*
	Other	Resource #13

Cross-refs:

Attributes

Resource type: Site
Age: Historic
Information base: Survey
Attribute codes: AH02 (Foundations/structure pads); AH11 (Walls/fences); AP15 (Habitation debris)
Disclosure: Not for publication
Collections: No
Accession no(s):
Facility:

Geography

Recorded by

Date	*Recorder(s)*	*Affiliation*	*Notes*
1/20/1996	J. Haney, W. Shapiro, J. Scott	Garcia and Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
003011	1997	Cultural Resources Report, Morrison Creek Mining Reach Downstream (South) of Jackson Highway	Garcia and Associates

Location

County: Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS: T8N R6E SE¼ of NE¼ of Sec. 29 MDBM
UTMs: Zone 10 645240mE 4264550mN NAD83

Map

Data entry record and update

	Date	*User*	
Entered:	9/3/2014	sarabeach	
Last modified:	7/17/2017	wagner	
IC actions:	*Date*	*User*	*Action taken*
	7/17/2017	wagner	Verified
Record status:	Verified		

Resource Detail Report

Identification Information

Primary No.:	P-34-004816
Trinomial:	CA-SAC-001172
Name:	
Other IDs:	Other: Resource #14
Cross-refs:	

Attributes

Resource type:	Site
Age:	Historic
Information base:	Survey
Attribute codes:	AH02 (Foundations/structure pads)
Disclosure:	Not for publication
Collections:	No
Accession no(s):	
Facility:	

Geography

Recorded by

Date	Recorder(s)	Affiliation	Notes
1/20/1996	J. Haney, W. Shapiro, J. Scott	Garcia and Associates	

Associated Reports

Report No.	Year	Title	Affiliation
003011	1997	Cultural Resources Report, Morrison Creek Mining Reach Downstream (South) of Jackson Highway	Garcia and Associates

Location Information

County:	Sacramento
USGS quad(s):	CARMICHAEL
Address:	
PLSS:	T8N R6E SE¼ of NE¼ of Sec. 29 MDBM
UTMs:	Zone 10 645240mE 4264710mN NAD83

Map Information

Data Entry Record and Update

	Date	User	
Entered:	9/3/2014	sarabeach	
Last modified:	7/17/2017	wagner	
IC actions:	*Date*	*User*	*Action taken*
	7/17/2017	wagner	Verified
Record status:	Verified		

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Primary No.: P-34-004817
Trinomial: CA-SAC-001173
Name:
Other IDs:

Type	*Name*
Other	Resource #15

Cross-refs:

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Resource type: Site
Age: Historic
Information base: Survey
Attribute codes: AH02 (Foundations/structure pads); AH04 (Privies/dumps/trash scatters)
Disclosure: Not for publication
Collections: No
Accession no(s):
Facility:

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Date	*Recorder(s)*	*Affiliation*	*Notes*
1/20/1996	J. Haney, W. Shapiro, J. Scott	Garcia and Associates	

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Report No.	*Year*	*Title*	*Affiliation*
003011	1997	Cultural Resources Report, Morrison Creek Mining Reach Downstream (South) of Jackson Highway	Garcia and Associates

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County: Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS: T8N R6E SW¼ of NW¼ of Sec. 28 MDBM
UTMs: Zone 10 645430mE 4265460mN NAD83

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	Date	*User*	
Entered:	9/3/2014	sarabeach	
Last modified:	7/17/2017	wagner	
IC actions:	*Date*	*User*	*Action taken*
	7/17/2017	wagner	Verified

Record status: Verified

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Id□□□□□□□□ □□□□r□ □□□□

Primary No.: P-34-005196
Trinomial:
Name: 9990 Elder Creek
Other IDs:

Type	*Name*
Resource Name	9990 Elder Creek

Cross-refs:

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Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

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Date	*Recorder(s)*	*Affiliation*	*Notes*
4/14/2014	Robert Gerry, Michael Lawson	Peak & Associates, Inc.	

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Report No.	*Year*	*Title*	*Affiliation*
012378	2014	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak & Associates, Inc.

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County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
9990 Elder Creek Road	Sacramento	066-0020-006-0000	95829

PLSS: T8N R6E SW¼ of NE¼ of Sec. 33 MDBM
UTMs: Zone 10 646410mE 4263240mN NAD27

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	Date	*User*	
Entered:	11/6/2017	paulrendes	
Last modified:	5/8/2019	paulrendes	
IC actions:	*Date*	*User*	*Action taken*
	11/6/2017	paulrendes	gis
	5/8/2019	paulrendes	verified gis

Record status: Verified

Record of Historical Resource

Identification

Primary No.: P-34-005302
Trinomial: CA-SAC-001263H
Name: Pioneer House
Other IDs:

Type	Name
Resource Name	Pioneer House
Other	Pioneer Tavern/Nine Mile House

Cross-refs:

Attributes

Resource type: Site, Element of district
Age: Historic
Information base: Survey
Attribute codes: AH04 (Privies/dumps/trash scatters)
Disclosure: Not for publication
Collections: No
Accession no(s):
Facility:

Geography

Recorded by

Date	Recorder(s)	Affiliation	Notes
10/6/2016	Ian Springer, Brian James	Caltrans District 3	

Associated records

Location

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
9760 Jackson Road	Sacramento		95827

PLSS:
UTMs: Zone 10 645563mE 4265670mN NAD83

Maps

Database record

Entered: 9/24/2019 paulrendes
Last modified: 10/23/2019 paulrendes
IC actions:

Date	User	Action taken
9/24/2019	paulrendes	plotted in gis
10/23/2019	paulrendes	verified gis

Record status: Verified

Record Details Report

Identification Information

Primary No.: P-34-005492
Trinomial:
Name: 5781 Bradshaw Road
Other IDs:

Type	Name
Resource Name	5781 Bradshaw Road
Other	Resource no. 1

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP33 (Farm/ranch)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

Geographic Information

Recorded by

Date	Recorder(s)	Affiliation	Notes
6/3/2003	Madeline Bowen	Jones & Stokes	

Associated Reports

Report No.	Year	Title	Affiliation
013845	2003	Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors	Jones & Stokes

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
5781 Bradshaw Road	Sacramento	063-0190-033 and 034	95829

PLSS:
UTMs:

Management Information

Database Record Added

	Date	User
Entered:	4/27/2022	madisonlevesque
Last modified:	4/27/2022	madisonlevesque

IC actions:

Date	User	Action taken
4/27/2022	madisonlevesqu	Plotted in GIS over address, no map

Record status:

Resource Record Primary Record

Identification Information

Primary No.: P-34-005493
Trinomial:
Name: 6059 Bradshaw Road
Other IDs:

Type	Name
Resource Name	6059 Bradshaw Road
Other	Resource no. 3

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Survey
Attribute codes: HP06 (1-3 story commercial building)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

Geographic Information

Recorded by

Date	Recorder(s)	Affiliation	Notes
6/3/2003	Madeline Bowen	Jones & Stokes	

Associated Reports

Report No.	Year	Title	Affiliation
013845	2003	Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors	Jones & Stokes

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
6059 Bradshaw Road	Sacramento	063-0180-023	95829

PLSS:
UTMs:

Map Information

Database Record Added

	Date	User	
Entered:	4/27/2022	madisonlevesque	
Last modified:	4/27/2022	madisonlevesque	
IC actions:	*Date*	*User*	*Action taken*
	4/27/2022	madisonlevesqu	Plotted over address location, no map

Record status:

Resource Detail Report

Identification Information

Primary No.: P-34-005494
Trinomial:
Name: Bridge No. 24C0341
Other IDs:

Type	Name
Resource Name	Bridge No. 24C0341
Other	Resource no.5

Cross-refs:

Attributes

Resource type: Structure
Age: Historic
Information base: Survey
Attribute codes: HP19 (Bridge)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

Geographic Information

Recorded by

Date	Recorder(s)	Affiliation	Notes
6/3/2003	Madeline Bowen	Jones & Stokes	

Associated Reports

Report No.	Year	Title	Affiliation
013845	2003	Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors	Jones & Stokes

Location Information

County: Sacramento
USGS quad(s): CARMICHAEL
Address:

Address	City	Assessor's parcel no.	Zip code
	Sacramento		95829

PLSS:
UTMs:

Management Information

Data Entry Record and Update

	Date	User
Entered:	4/27/2022	madisonlevesque
Last modified:	4/27/2022	madisonlevesque

IC actions:

Date	User	Action taken
4/27/2022	madisonlevesqu	Plotted in GIS

Record status:

Report List

Report No / Other ID	Year	Author(s)	Title	Affiliation	Resources
000088	1974	Johnson, Jerald J.	Reconnaissance Archeological Survey of the Morrison Stream Group in Sacramento County, California.	Associate Professor, Sacramento State	34-000048, 34-000075, 34-000077, 34-000083, 34-000084, 34-000085, 34-000086, 34-000087, 34-000088, 34-000089, 34-000090, 34-000091, 34-000092, 34-000098, 34-000099, 34-000110, 34-000111, 34-000112, 34-000113, 34-000114, 34-000115, 34-000116, 34-000117, 34-000172, 34-000215, 34-000229, 34-000350, 34-000351, 34-000352, 34-000353, 34-000354
002385	2000	Bakic, Tracy D. and Mary L. Maniery	Negative Historic Property Survey Report, Bradshaw Road Bridge Replacement Project at Morrison Creek (Bridge No. 24C-341), Sacramento County, California & Negative Archaeological Survey Report, Bradshaw Road Bridge Replacement Project at Morrison Creek (Bridge No. 24C-341), Sacramento County, California.	PAR Environmental Services, Inc.	
003011	1997		Cultural Resources Report, Morrison Creek Mining Reach Downstream (South) of Jackson Highway	Garcia and Associates	29-000328, 34-004806, 34-004807, 34-004808, 34-004809, 34-004810, 34-004811, 34-004812, 34-004813, 34-004814, 34-004815, 34-004816, 34-004817
003011B	1996	JRP Historical Consulting Services	Historic Architectural Survey Report, Eight Groups of Buildings and Structures Located Within the Project Area for Morrison Creek Mining Reach, Downstream (South) of Jackson Highway	JRP Historical Consulting Services	
006042	1991		A Cultural Resources Survey for the Teichert Aspen VI Rezone and Use Permit and Granite I Rezone and Use Permit Sacramento County, California	BioSystems Analysis Inc.	
006080	2005	PAR Environmental Services	Cultural Resources Assessment of the Off-site Well No. 6 Project		
006097	2004	Douglas Davy	Archaeological Resources Inventory for the Bradshaw Road Widening Project: Elder Creek to Florin Road; Technical Memorandum & Historic Significance Assessment	CH2MHILL	34-001515
006097A	2004	Doug Davy	Historic Significance Assessment-9720 Florin Road	CH2M Hill	

Report List

Report No	Other ID	Year	Author	Title	Affiliation	Resources
007069		1995	Peak & Associates, Inc.	Cultural Resources Assessment of the North Vineyard Station Specific Plan, Sacramento County, CA	Peak & Associates, Inc.	34-000715, 34-001098, 34-001509, 34-001511, 34-001512, 34-001513, 34-001514, 34-001515, 34-001516, 34-001517, 34-001518, 34-001519, 34-001625
007948		2005	Mary Maniery	Cultural Resources Assessment of the Excelsior Road Well Field, Well no. 4 project, Control Number 04-0918 (PAR No. 05-5003-001)	PAR Environmental Services, Inc.	34-001597
008062		2006	Roger D. Mason	Cultural Resources Survey and Evaluation North Vineyard Station Off-Site (WBIG) Project	Ecorp	34-001618, 34-001619, 34-001620, 34-001621, 34-001622, 34-001623, 34-001624, 34-001625, 34-001626, 34-001627, 34-001628, 34-001629
008911		2007	Melinda Peak	Determination of Eligibility and Effect for the Aspen IV South Project, Sacramento, California	Peak and Associates, Inc.	
008912		2007	Melinda Peak	Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak and Associates, Inc.	34-001865, 34-001866, 34-001867
009136		2006	M. Oberndorf	Cultural Resources Inventory, Emerald Estates, Sacramento County, California, Project 2005-174	ECORP	

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009326	2008	Laura Leach-Palm, Bryan Larson, Paul Brandy, Jay King, Lindsay Hartman, and Pat Mikkelsen	Cultural Resources Inventory of Caltrans District 3 Rural Conventional Highways in Butte, Colusa, El Dorado, Glenn, Nevada, Placer, Sacramento, Sierra, Sutter, Yolo, and Yuba Counties	Far Western; JRP Historical Consulting, LLC	09-000045, 09-000108, 09-000109, 09-000144, 09-000145, 09-000232, 09-000400, 09-000632, 09-000637, 09-000638, 09-000701, 09-000704, 09-000705, 09-000769, 09-000773, 09-000809, 09-000853, 09-000906, 09-000907, 09-000908, 09-000912, 09-000913, 09-000917, 09-001151, 09-001212, 09-001283, 09-001708, 09-001741, 09-001789, 09-001822, 09-001894, 09-001910, 09-002534, 09-002575, 09-002835, 09-003317, 09-003605, 09-003828, 09-003840, 09-003880, 09-004042, 09-004128, 09-004161, 09-004311, 09-004443, 09-004444, 09-004445, 09-004446, 09-004448, 09-004449, 09-004450, 09-004451, 09-004453, 09-004454, 09-004455, 09-004456, 09-004457, 09-004458, 09-004459, 09-004460, 09-004461, 09-004462, 09-004463, 09-004465, 09-004466, 09-004467, 09-004469, 09-004470, 09-004471, 09-004472, 09-004473, 09-004474, 09-004475, 09-004476, 09-004477, 09-004478, 09-004479, 09-004480, 09-004481, 09-004484, 29-000032, 29-000041, 29-000067, 29-000103, 29-000108, 29-000265, 29-000348, 29-000349, 29-000355, 29-000370, 29-000505, 29-000584, 29-000585, 29-000586, 29-000732, 29-000823, 29-000839, 29-000879, 29-001154, 29-001500, 29-001594, 29-001809, 29-002274, 29-002628, 29-002743, 29-002880, 29-003048, 29-003050, 29-003051, 29-003052, 29-003053, 29-003054, 29-003055, 29-003056, 29-003057, 29-003058, 29-003059, 29-003060, 29-003061, 29-003062, 29-003063, 29-003064, 29-003065, 29-003066, 29-003067, 29-003068, 29-003069, 29-003070, 29-003071, 29-004535, 31-000131, 31-000132, 31-000134, 31-000139, 31-000147, 31-000148, 31-000149, 31-000159,

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						31-000279, 31-000280, 31-000964, 31-001261, 31-001262, 31-001279, 31-001454, 31-001455, 31-001457, 31-001686, 31-001742, 31-001745, 31-001840, 31-001852, 31-001862, 31-001888, 31-001889, 31-001895, 31-001899, 31-001930, 31-002386, 31-002705, 31-002706, 31-002707, 31-002708, 31-002791, 31-002792, 31-003276, 31-003352, 31-003353, 31-003354, 31-003355, 31-003356, 31-003357, 31-003358, 31-003359, 31-003360, 31-003361, 31-003362, 31-003363, 31-003364, 31-003365, 31-003366, 31-003367, 34-000075, 34-000078, 34-000089, 34-000096, 34-000160, 34-000355, 34-000489, 34-000606, 34-000662, 34-000868, 34-000869, 34-001029, 34-001497, 34-001524, 34-001525, 34-001609, 34-002102, 34-002103, 34-002104, 34-002105, 34-002106, 34-002107, 34-002108, 34-002109, 34-002110, 34-002111, 34-002112, 34-002113, 34-002114, 34-002115, 34-002116, 34-002117, 34-002118, 34-002119, 34-002120, 34-002121, 34-002122, 34-002123, 34-002124, 34-002125, 34-002126, 34-002127, 34-002128, 34-002129, 34-002130, 34-002131, 34-002132, 34-002133, 34-002134, 34-002135, 34-002136, 34-002137, 34-002138, 34-002139, 34-002140, 34-002141, 34-002143, 34-004030, 58-000046, 58-000219, 58-000222, 58-000597, 58-000644, 58-000645, 58-001159, 58-001208, 58-001755, 58-002224, 58-002225, 58-002228, 58-002229, 58-002230, 58-002233, 58-002234, 58-002955, 58-002997

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009989	2008		Cultural Resources Inventory and Evaluation Report for the Freeport Regional Water Project, Sacramento and San Joaquin Counties, California	Jones and Stokes	34-000491, 34-000606, 34-000700, 34-001302, 34-001363, 34-003859, 34-003860, 34-003861, 34-003862, 34-003863, 34-003864, 34-003865, 34-003866, 34-003867, 34-003869, 34-003871, 34-003872
009989B	2007		Revised Addendum Cultural Resources Inventory Report for Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California-Extra Work Space on the Vineyard Road Pipeline Extension APE Modification FRWP-2007-03	Jones & Stokes	
009989C	2007		Revised Addendum Cultural Resources Inventory Report for the Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California-APE Modification FRWP-2007-04	Jones & Stokes	
009989D	2008		Revised Addendum Cultural Resources Inventory Report for Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California-APE Modification FRWP-2007-06	Jones & Stokes	
009989E	2008	Gabriel Roark	Revised Addendum to APE Modification FRWP-2007-06, Additional Spoils Storage Area on Segment 2 of the FRWA Pipeline, Freeport Regional Water Project	Jones & Stokes	
009989F	2008		Revised Cultural Resources Inventory Report Addendum for Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California: Two Spoils Storage and Staging Areas on Segment 2 of the FRWA Pipeline-APE Modification FRWP-2008-01	Jones & Stokes	
009989G	2008	Gabriel Roark	APE Modification FRWP-2008-02, Additional Spoils, Storage,, and Staging Areas on Segments 1 and 2 of the FRWA Pipeline and the Northern Pipeline Segment of the Folsom South Canal Connection, Freeport Regional Water Project-Revision	Jones & Stokes	

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009989H	2008		APE Modification FRWP-2008-03, Sediment Disposal Site at 9005 River Road, FRWA Intake Facility and Joint Pipeline, Freeport Regional Water Project	Jones & Stokes	
009989I	2008		APE Modification FRWP-2008-04, Two Temporary Spoils and Equipment Storage Areas on Segment 2 of the FRWA Pipeline, Freeport Regional Water Project	Jones & Stokes	
009989J	2008		Revised APE Modification FRWP-2008-07, Temporary Storage of Sediment and Construction of Temporary Project Facilities, FRWA Intake Facility and Joint Pipeline of the FRWA Pipeline, Freeport Regional Water Project-APE Modification without Prior Reclamation Approval	Jones & Stokes	
009989K	2008		APE Modification FRWP-2008-09, Additional Sediment Storage and Equipement Staging Areas on Segment 2 of the FRWA Pipeline and the Middle Pipeline Segment of the Folsom South Canal Connection Pipeline, Freeport Regional Water Project-05-CCAO-197.9	Jones & Stokes	
009989L	2008		Revised APE Modification FRWP-2008-10, Permanent Disposal Area on Segment 2 of the FRWA Pipeline, Freeport Regional Water Project and Warren Sediment Disposal Site, Folsom South Canal Connection Pipeline, Freeport Regional Water Project (05-CCAO-197.10)	Jones & Stokes	
010353	2009	EDAW | AECOM	Cultural Resources Inventory Report CSA Water T-Main and Florin Road Sewer Project Sacramento County, California	EDAW | AECOM	34-000715, 34-001470, 34-001514, 34-001515, 34-001618, 34-001625
010735	2010	Adrian Whitaker and Phillip Kaijankoski	Archaeological Survey Report and Geoarchaeological Sensitivity Study for the PG&E Vineyard Surface Water Treatment Plant Project	Far Western	
011363	2013	Ric Windmiller	SCWA Well #4 Cultural Resources Inventory and Evaluation Sacramento County, California	Consulting Archaeologist	34-001597
011723	2014	Sarah C. Heffner	Heritage Resources Inventory Report for the Interim NSA Pipeline Project, Sacramento County, California	PAR Environmental	

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012378	2014		Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California	Peak & Associates, Inc.	34-001865, 34-001866, 34-001867, 34-005196
013845	2003		Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors	Jones & Stokes	34-000689, 34-001507, 34-005492, 34-005493, 34-005494, 34-005495

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Report No.: 000088
Other IDs:
Cross-refs:

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Author(s): Johnson, Jerald J.
Year: 1974
Title: Reconnaissance Archeological Survey of the Morrison Stream Group in Sacramento County, California.
Affliliation: Associate Professor, Sacramento State
No. pages: 35
No. maps:
Attributes: Archaeological, Field study
Inventory size: Approx. 75-90 miles linear and 950+ acres
Disclosure: Not for publication
Collections: No

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Primary No.	*Trinomial*	*Name*
P-34-000048	CA-SAC-000021	Hollister Mound
P-34-000075	CA-SAC-000048	Azevedo Mound
P-34-000077	CA-SAC-000050	Facunes Mound
P-34-000083	CA-SAC-000056	Mosher
P-34-000084	CA-SAC-000057	
P-34-000085	CA-SAC-000058	
P-34-000086	CA-SAC-000059	Edinger
P-34-000087	CA-SAC-000060	
P-34-000088	CA-SAC-000061	
P-34-000089	CA-SAC-000062	Robinson
P-34-000090	CA-SAC-000063/H	Bloom Mound
P-34-000091	CA-SAC-000064	Stone Lake Mound
P-34-000092	CA-SAC-000065/H	
P-34-000098	CA-SAC-000071	Green
P-34-000099	CA-SAC-000072	Herzog Mound
P-34-000110	CA-SAC-000083	
P-34-000111	CA-SAC-000084	
P-34-000112	CA-SAC-000085	Nicholaus Mound
P-34-000113	CA-SAC-000086	
P-34-000114	CA-SAC-000087/H	
P-34-000115	CA-SAC-000088	Elliott Mound
P-34-000116	CA-SAC-000089	
P-34-000117	CA-SAC-000090	
P-34-000172	CA-SAC-000145	South Stone Lake
P-34-000215	CA-SAC-000188	
P-34-000229	CA-SAC-000202	Mooney Site
P-34-000350	CA-SAC-000323	
P-34-000351	CA-SAC-000324	
P-34-000352	CA-SAC-000325/H	
P-34-000353	CA-SAC-000326	
P-34-000354	CA-SAC-000327	

No. resources: 31
Has informals: No

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County(ies): Sacramento
USGS quad(s): BRUCEVILLE, CARMICHAEL, CLARKSBURG, COURTLAND, ELK GROVE, FLORIN, SACRAMENTO EAST

Address:
PLSS:

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	Date	*User*
Entered:	7/31/2000	Erin Snyder
Last modified:	5/29/2018	paulrendes

IC actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/17/2008	Machiel	plotted in GIS
	8/9/2017	wagner	Verified
	5/29/2018	paulrendes	added additional database info

Record status: Verified

Report Detail

Identifiers

Report No.: 002385
Other IDs:
Cross-refs:

Publication Information

Author(s): Bakic, Tracy D. and Mary L. Maniery
Year: 2000 (Sep)
Title: Negative Historic Property Survey Report, Bradshaw Road Bridge Replacement Project at Morrison Creek (Bridge No. 24C-341), Sacramento County, California & Negative Archaeological Survey Report, Bradshaw Road Bridge Replacement Project at Morrison Creek (Bridge No. 24C-341), Sacramento County, California.
Affliliation: PAR Environmental Services, Inc.
No. pages: 23
No. maps:
Attributes: Archaeological, Field study
Inventory size: Estimated 20 acres total
Disclosure: Not for publication
Collections: No

General

Associated Resources

No. resources: 0
Has informals: No

Location Information

County(ies): Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS:

Digitized Record

	Date	User
Entered:	11/13/2000	Erin Snyder
Last modified:	7/19/2019	paulrendes

IC actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	9/23/2009	Machiel	Same as project as report 2386 - already plotted in GIS
	7/19/2019	paulrendes	verified gis

Record status: Verified

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Report No.: 003011
Other IDs:
Cross-refs:

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Author(s):
Year: 1997 (Feb)
Title: Cultural Resources Report, Morrison Creek Mining Reach Downstream (South) of Jackson Highway
Affliliation: Garcia and Associates
No. pages:
No. maps:
Attributes: Field study
Inventory size:
Disclosure: Not for publication
Collections: No

Sub-desig.: B
Author(s): JRP Historical Consulting Services
Year: 1996 (Jan)
Title: Historic Architectural Survey Report, Eight Groups of Buildings and Structures Located Within the Project Area for Morrison Creek Mining Reach, Downstream (South) of Jackson Highway
Affiliation: JRP Historical Consulting Services
Report type(s): Architectural/Historical, Field study
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

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includes Historic Architectural Survey Report prepared by JRP Historical Consulting Services

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Primary No.	*Trinomial*	*Name*
P-29-000328	CA-NEV-000270H	
P-34-004806	CA-SAC-001162	
P-34-004807	CA-SAC-001163	
P-34-004808	CA-SAC-001164H	
P-34-004809	CA-SAC-001165	
P-34-004810	CA-SAC-001166	
P-34-004811	CA-SAC-001167	
P-34-004812	CA-SAC-001168	
P-34-004813	CA-SAC-001169	
P-34-004814	CA-SAC-001170H	
P-34-004815	CA-SAC-001171	
P-34-004816	CA-SAC-001172	
P-34-004817	CA-SAC-001173	

No. resources: 13
Has informals: No

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County(ies): Sacramento
USGS quad(s): CARMICHAEL
Address:
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	Date	*User*	
Entered:	10/23/2001	Courtney Cha	
Last modified:	9/30/2021	paulrendes	
IC actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	12/19/2017	wagner	Verified
	9/30/2021	paulrendes	added additional database info
Record status:	Verified		

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Report No.: 006042
Other IDs:
Cross-refs:

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Author(s):
Year: 1991 (May)
Title: A Cultural Resources Survey for the Teichert Aspen VI Rezone and Use Permit and Granite I Rezone and Use Permit Sacramento County, California
Affliliation: BioSystems Analysis Inc.
No. pages: 16
No. maps:
Attributes: Field study
Inventory size:
Disclosure: Not for publication
Collections: Unknown

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No. resources: 0
Has informals: No

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County(ies): Sacramento
USGS quad(s): CARMICHAEL
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	Date	*User*	
Entered:	6/13/2005	Gabe Aeschlim	
Last modified:	4/11/2018	joshuaadams2	
IC actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	11/13/2009	Machiel	Survey plotted in GIS (please note discrepency between survey mapped in the EIR and the report from Biosystems Analysis, Inc.)
	6/16/2017	nathan.hallam	removed EIR; kept cultural resources report
	4/11/2018	joshuaadams2	Verified GIS
Record status:	Verified		

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Report No.: 006080
Other IDs:
Cross-refs:

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Author(s): PAR Environmental Services
Year: 2005
Title: Cultural Resources Assessment of the Off-site Well No. 6 Project
Affliliation:
No. pages:
No. maps:
Attributes:
Inventory size: 22 acres
Disclosure:
Collections:

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No. resources: 0
Has informals:

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County(ies): Sacramento
USGS quad(s): CARMICHAEL
Address:
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	Date	*User*
Entered:	6/14/2005	Gabe Aeschlim
Last modified:	4/11/2018	joshuaadams2

IC actions:	*Date*	*User*	*Action taken*
	11/8/2006	jay	Added records from old Library database
	8/19/2009	Machiel	Survey plotted in GIS
	4/11/2018	joshuaadams2	Verified GIS

Record status: Verified

Report Detail

Identifiers

Report No.: 006097
Other IDs:
Cross-refs:

Citation

Author(s): Douglas Davy
Year: 2004 (May)
Title: Archaeological Resources Inventory for the Bradshaw Road Widening Project: Elder Creek to Florin Road; Technical Memorandum & Historic Significance Assessment
Affliliation: CH2MHILL
No. pages: 45
No. maps:
Attributes: Field study
Inventory size: Unknown
Disclosure: Not for publication
Collections: No

Sub-desig.: A
Author(s): Doug Davy
Year: 2004 (Nov)
Title: Historic Significance Assessment-9720 Florin Road
Affiliation: CH2M Hill
Report type(s): Architectural/Historical, Evaluation, Field study
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

General

Associated Resources

	Primary No.	Trinomial	Name
	P-34-001515		Dias Family Ranch, 9720 Florin

No. resources: 1
Has informals: No

Location

County(ies): Sacramento
USGS quad(s): CARMICHAEL, ELK GROVE
Address:
PLSS:

Database Record

	Date	User
Entered:	6/14/2005	Gabe Aeschlim
Last modified:	4/18/2022	paulrendes

IC actions:	Date	User	Action taken
	11/8/2006	jay	Added records from old Library database
	11/16/2009	Machiel	Survey plotted in GIS
	4/11/2018	joshuaadams2	Verified GIS
	4/18/2022	paulrendes	added additional database info

Record status: Verified

Report Display

Identifiers

Report No.: 007069
Other IDs:
Cross-refs:

Publication Information

Author(s): Peak & Associates, Inc.
Year: 1995 (Dec)
Title: Cultural Resources Assessment of the North Vineyard Station Specific Plan, Sacramento County, CA
Affliliation: Peak & Associates, Inc.
No. pages: 28
No. maps:
Attributes: Archaeological, Architectural/Historical, Field study
Inventory size: 1,580 acres
Disclosure: Not for publication
Collections: No

Geography

Associated Resources

	Primary No.	Trinomial	Name
	P-34-000715		
	P-34-001098		
	P-34-001509	CA-SAC-000924H	
	P-34-001511		
	P-34-001512		
	P-34-001513		
	P-34-001514		
	P-34-001515		Dias Family Ranch, 9720 Florin
	P-34-001516		
	P-34-001517		
	P-34-001518		
	P-34-001519		
	P-34-001625	CA-SAC-000969H	

No. resources: 13
Has informals: No

Location Information

County(ies): Sacramento
USGS quad(s): ELK GROVE
Address:
PLSS:

Database Record Added

	Date	User
Entered:	6/5/2006	Connor Welles
Last modified:	8/17/2021	paulrendes

IC actions:	Date	User	Action taken
	11/8/2006	jay	Added records from old Library database
	12/10/2009	Machiel	Survey plotted in GIS
	4/16/2018	nicoleallison	Scanned; Verified GIS
	1/14/2019	paulrendes	added additional database info

Record status: Verified

Report Detail

Identifiers

Report No.: 007948
Other IDs:
Cross-refs:

Publication Information

Author(s): Mary Maniery
Year: 2005 (Mar)
Title: Cultural Resources Assessment of the Excelsior Road Well Field, Well no. 4 project, Control Number 04-0918 (PAR No. 05-5003-001)
Affliliation: PAR Environmental Services, Inc.
No. pages: 12
No. maps:
Attributes: Archaeological, Field study
Inventory size: 19.5 acres
Disclosure: Not for publication
Collections: No

Geography

Associated Records

	Primary No.	Trinomial	Name
	P-34-001597		

No. resources: 1
Has informals: No

Location Information

County(ies): Sacramento
USGS quad(s): CARMICHAEL, ELK GROVE
Address:
PLSS: T7N R6E
T8N R6E

Data Entry

	Date	User	
Entered:	12/11/2006	erin	
Last modified:	11/10/2021	madisonlevesq	
IC actions:	*Date*	*User*	*Action taken*
	12/15/2009	Machiel	Survey plotted in GIS
	11/10/2021	madisonlevesqu	Verified in GIS

Record status:

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Report No.: 008062
Other IDs:
Cross-refs:

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Author(s): Roger D. Mason
Year: 2006 (Dec)
Title: Cultural Resources Survey and Evaluation North Vineyard Station Off-Site (WBIG) Project
Affliliation: Ecorp
No. pages: 34
No. maps:
Attributes: Archaeological, Architectural/Historical, Field study
Inventory size: Approximately 255 acres
Disclosure: Not for publication
Collections: No

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Primary No.	*Trinomial*	*Name*
P-34-001618	CA-SAC-000963H	
P-34-001619	CA-SAC-000964H	
P-34-001620	CA-SAC-000965H	
P-34-001621	CA-SAC-000966H	
P-34-001622	CA-SAC-000967H	
P-34-001623	CA-SAC-000968H	
P-34-001624		
P-34-001625	CA-SAC-000969H	
P-34-001626	CA-SAC-000970H	
P-34-001627		
P-34-001628		
P-34-001629		

No. resources: 12
Has informals: No

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County(ies): Sacramento
USGS quad(s): CARMICHAEL, ELK GROVE, FLORIN, SACRAMENTO EAST
Address:
PLSS: T7N R5E Sec. 1, 12, 13, 23, 24 MDBM
T7N R6E Sec. 2-23 MDBM
T8N R5E Sec. 24, 25, 36 MDBM
T8N R6E Sec. 19, 20, 22, 26-35 MDBM

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	Date	*User*
Entered:	1/9/2007	maya
Last modified:	9/19/2018	paulrendes

IC actions:	*Date*	*User*	*Action taken*
	12/17/2009	Machiel	Survey plotted in GIS
	1/3/2018	wagner	Verified
	9/19/2018	paulrendes	added additional database info

Record status: Verified

R□□□r□D□□□□□□□□□□□□□

Id□□□□□□r□

Report No.: 008911
Other IDs:
Cross-refs:

C□□□□□□ □□□r□ □□□□

Author(s): Melinda Peak
Year: 2007 (Feb)
Title: Determination of Eligibility and Effect for the Aspen IV South Project, Sacramento, California
Affliliation: Peak and Associates, Inc.
No. pages:
No. maps:
Attributes: Evaluation
Inventory size:
Disclosure:
Collections:

G□□□r□□□□□□□

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No. resources: 0
Has informals:

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County(ies): Placer
USGS quad(s): CARMICHAEL
Address:
PLSS:

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	Date	*User*
Entered:	9/24/2007	nathan
Last modified:	1/16/2018	wagner

IC actions:	*Date*	*User*	*Action taken*
	12/22/2009	Machiel	Survey plotted in GIS
	1/16/2018	wagner	Verified

Record status: Verified

Report Display

Identification

Report No.: 008912
Other IDs:
Cross-refs:

Publication/Publication Information

Author(s): Melinda Peak
Year: 2007 (Jul)
Title: Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California
Affliliation: Peak and Associates, Inc.
No. pages:
No. maps:
Attributes: Evaluation
Inventory size: 682 acres
Disclosure:
Collections:

Geography

Associated Resources

	Primary No.	Trinomial	Name
	P-34-001865		
	P-34-001866		
	P-34-001867	CA-SAC-001027H	

No. resources: 3
Has informals:

Location/Location Information

County(ies): Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS:

Data Entry/Record Control

	Date	User
Entered:	9/24/2007	nathan
Last modified:	1/16/2018	wagner

IC actions:	Date	User	Action taken
	12/22/2009	Machiel	Survey plotted in GIS
	1/16/2018	wagner	Verified

Record status: Verified

R□□□r□D□□□□□□□□□□□□

Id□□□□□□r□

Report No.: 009136
Other IDs:
Cross-refs:

C□□□□□□ □□□r□ □□□□

Author(s): M. Oberndorf
Year: 2006 (Mar)
Title: Cultural Resources Inventory, Emerald Estates, Sacramento County, California, Project 2005-174
Affliliation: ECORP
No. pages: 43
No. maps:
Attributes: Archaeological, Field study, Other research
Inventory size: c. 40 acres
Disclosure: Not for publication
Collections: Unknown

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CD provided by author

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No. resources: 0
Has informals:

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County(ies): Sacramento
USGS quad(s): ELK GROVE
Address:
PLSS:

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	Date	*User*
Entered:	12/12/2007	wilson
Last modified:	1/16/2018	wagner

IC actions:	*Date*	*User*	*Action taken*
	1/16/2018	wagner	Verified

Record status: Verified

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Id□□□□□□r□

Report No.: 009326

Other IDs: *Type* *Name*

Cross-refs:

C□□□□□□ □□□r□ □□□□

Author(s): Laura Leach-Palm, Bryan Larson, Paul Brandy, Jay King, Lindsay Hartman, and Pat Mikkelsen

Year: 2008 (Jun)

Title: Cultural Resources Inventory of Caltrans District 3 Rural Conventional Highways in Butte, Colusa, El Dorado, Glenn, Nevada, Placer, Sacramento, Sierra, Sutter, Yolo, and Yuba Counties

Affliliation: Far Western; JRP Historical Consulting, LLC

No. pages: 36

No. maps:

Attributes: Archaeological, Architectural/Historical, Field study

Inventory size: apx. 295.55 linear miles

Disclosure: Not for publication

Collections: Unknown

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Primary No.	*Trinomial*	*Name*
P-09-000045		
P-09-000108	CA-ELD-000020	
P-09-000109	CA-ELD-000021	
P-09-000144	CA-ELD-000056H	Marshall Monument
P-09-000145	CA-ELD-000057/H	Coloma
P-09-000232	CA-ELD-000144	
P-09-000400	CA-ELD-000312H	Pyramid Ranger Station
P-09-000632	CA-ELD-000544/H	Fred's Place
P-09-000637	CA-ELD-000549	
P-09-000638	CA-ELD-000550	Alder Creek Campground
P-09-000701	CA-ELD-000613	
P-09-000704	CA-ELD-000616/H	
P-09-000705	CA-ELD-000617/H	Phillip's Station
P-09-000769	CA-ELD-000681H	
P-09-000773	CA-ELD-000685H	Logtown
P-09-000809	CA-ELD-000721H	Lincoln Highway
P-09-000853	CA-ELD-000765H	Mother Welty's Place
P-09-000906	CA-ELD-000818H	Kyburz Dump
P-09-000907	CA-ELD-000819/H	
P-09-000908	CA-ELD-000820/H	
P-09-000912	CA-ELD-000824	
P-09-000913	CA-ELD-000825	
P-09-000917	CA-ELD-000829/H	Digger Indian Springs
P-09-001151	CA-ELD-000944H	
P-09-001212	CA-ELD-000959H	Georgetown Ditch
P-09-001283		Horizontal Mine Tunnel
P-09-001708	CA-ELD-001284/H	
P-09-001741	CA-ELD-001303H	Michigan Flat Diggings
P-09-001789	CA-ELD-002803H	John Poor's Store at Spanish Fla
P-09-001822	CA-ELD-001339	S.F. Jones Site
P-09-001894		Gold Hill Ditch
P-09-001910		
P-09-002534	CA-ELD-001678H	
P-09-002575	CA-ELD-001683H	Intake Sawmill
P-09-002835	CA-ELD-001839H	Hawley Grade

P-09-003317		
P-09-003605	CA-ELD-002348H	
P-09-003828	CA-ELD-002497H	San Francisco House
P-09-003840	CA-ELD-002502H	Georgetown Junction House
P-09-003880	CA-ELD-002513H	Ferguson's Hotel Site
P-09-004042	CA-ELD-002628/H	Potluck Salvage Sale
P-09-004128	CA-ELD-002870H	Ehrman Ditch
P-09-004161	CA-ELD-002700	
P-09-004311	CA-ELD-002736H	Strawberry Guard Station
P-09-004443		
P-09-004444		
P-09-004445		
P-09-004446		
P-09-004448		Coloma-Lotus Ditch
P-09-004449		
P-09-004450		
P-09-004451		James Marshall Monument Retai
P-09-004453		
P-09-004454		
P-09-004455		
P-09-004456		Vikingsholm Historic District
P-09-004457		
P-09-004458		
P-09-004459		Pow Wow Restaurant Road Side
P-09-004460		
P-09-004461		
P-09-004462		
P-09-004463		
P-09-004465		
P-09-004466		
P-09-004467		Bayley House
P-09-004469		E005
P-09-004470		
P-09-004471		
P-09-004472		
P-09-004473		Riverside House
P-09-004474		
P-09-004475		
P-09-004476		
P-09-004477		Residential Site
P-09-004478		
P-09-004479		
P-09-004480		
P-09-004481		
P-09-004484		
P-29-000032	CA-NEV-002159H	Blue Tent Company Ditch
P-29-000041	CA-NEV-001854H	Empire and North Star Pipes
P-29-000067	CA-NEV-000009	Deerfield Carwash Site
P-29-000103	CA-NEV-000045	North of Sweetland
P-29-000108	CA-NEV-000050	
P-29-000265	CA-NEV-000207H	Excelsior Ditch
P-29-000348	CA-NEV-000290H	Arbogast Mine
P-29-000349	CA-NEV-000291H	American Hill Diggings
P-29-000355	CA-NEV-000297H	
P-29-000370	CA-NEV-000312H	
P-29-000505	CA-NEV-000447H	House Site
P-29-000584	CA-NEV-000526	Drake Family Residence
P-29-000585	CA-NEV-000527	
P-29-000586	CA-NEV-000528/H	Prosser Creek Site

P-29-000732	CA-NEV-000701H	Overland Emigrant Trail
P-29-000823	CA-NEV-000695H	Sierra Nevada Wood & Lumber
P-29-000839	CA-NEV-001590H	Nevada County Narrow Gauge R
P-29-000879		South Yuba Canal
P-29-001154	CA-NEV-002220H	Snow Mountain Ditch
P-29-001500		Rattlesnake Ditch
P-29-001594	CA-NEV-001833H	Ridge Ditch
P-29-001809	CA-NEV-001156/H	
P-29-002274	CA-NEV-001448/H	Naninis House
P-29-002628	CA-NEV-001831H	
P-29-002743	CA-NEV-001832H	
P-29-002880	CA-NEV-001777H	Stairway To Structure
P-29-003048		
P-29-003050		
P-29-003051		
P-29-003052		JNE002
P-29-003053		
P-29-003054		Pioneer Grave - Julius Albert Ap
P-29-003055		
P-29-003056	CA-NEV-001827H	
P-29-003057		JNE010
P-29-003058		Donner Creek Underpass
P-29-003059		
P-29-003060		
P-29-003061	CA-NEV-001828H	Old Bear River Bridge
P-29-003062	CA-NEV-001829H	Chicago Park East Ditch
P-29-003063		
P-29-003064		
P-29-003065		
P-29-003066	CA-NEV-001830H	
P-29-003067	CA-NEV-001858H	
P-29-003068		
P-29-003069		
P-29-003070		Madrone 3
P-29-003071		
P-29-004535	CA-NEV-002214H	MR #1; NID Canals near Smarts
P-31-000131	CA-PLA-000005/H	Martis Creek Camp
P-31-000132	CA-PLA-000006/H	Porcupine Hill Bedrock Mortar Si
P-31-000134	CA-PLA-000008	Goose Meadow
P-31-000139	CA-PLA-000013	Carnelian Bay
P-31-000147	CA-PLA-000021	
P-31-000148	CA-PLA-000022	Little Chief
P-31-000149	CA-PLA-000023/H	Deer Creek Site; Winnebago Wo
P-31-000159	CA-PLA-000033	
P-31-000279	CA-PLA-000153/H	
P-31-000280	CA-PLA-000154	
P-31-000964	CA-PLA-000841H	Central Pacific Rail Road Compa
P-31-001261	CA-PLA-000974H	
P-31-001262	CA-PLA-000975H	
P-31-001279	CA-PLA-000994H	
P-31-001454		
P-31-001455		
P-31-001457		Isolated Mano
P-31-001686	CA-PLA-001327H	
P-31-001742	CA-PLA-001363H	
P-31-001745	CA-PLA-001366H	Bear River Canal
P-31-001840		
P-31-001852	CA-PLA-001434H	Georgie's Memorial Grove
P-31-001862	CA-PLA-001711/H	Mary's Site

P-31-001888		
P-31-001889	CA-PLA-001478H	Lake Tahoe Railway & Transport
P-31-001895		
P-31-001899		
P-31-001930		
P-31-002386	CA-PLA-002267H	Lake Valley Pipe
P-31-002705	CA-PLA-001902/H	
P-31-002706	CA-PLA-001903/H	
P-31-002707	CA-PLA-001904H	
P-31-002708	CA-PLA-001905/H	MasundauwO'tha
P-31-002791		
P-31-002792		
P-31-003276		Lower Fiddler Green Canal
P-31-003352	CA-PLA-002330H	
P-31-003353	CA-PLA-002238/H	BRM-ounds
P-31-003354		
P-31-003355		
P-31-003356	CA-PLA-002239H	Lindsay's Site
P-31-003357		
P-31-003358		
P-31-003359		Stag Quarry
P-31-003360		
P-31-003361		Bear River Ditch
P-31-003362		
P-31-003363		Drum Canal
P-31-003364		JPL006
P-31-003365		Mt. Watson Road
P-31-003366		Old Grass Valley Road
P-31-003367	CA-PLA-002240H	Old Bear River Bridge
P-34-000075	CA-SAC-000048	Azevedo Mound
P-34-000078	CA-SAC-000051	
P-34-000089	CA-SAC-000062	Robinson
P-34-000096	CA-SAC-000069	Smith Mound
P-34-000160	CA-SAC-000133	
P-34-000355	CA-SAC-000328	
P-34-000489	CA-SAC-000462H	
P-34-000606	CA-SAC-000506H	Central California Traction Comp
P-34-000662		Michigan Bar Road
P-34-000868		
P-34-000869		
P-34-001029	CA-SAC-001229H	Amador Branch Railroad
P-34-001497	CA-SAC-001092H	Sacramento Southern Railroad
P-34-001524	CA-SAC-000927H	
P-34-001525	CA-SAC-000928H	
P-34-001609		
P-34-002102		Rosebud Ranch
P-34-002103		
P-34-002104		SA001; Freeport Tree Row
P-34-002105		
P-34-002106	CA-SAC-001264H	Eleven Mile House
P-34-002107		
P-34-002108		
P-34-002109		JSA002
P-34-002110		
P-34-002111		
P-34-002112		
P-34-002113		Wenzell Property
P-34-002114		
P-34-002115		

P-34-002116		
P-34-002117		
P-34-002118		
P-34-002119		
P-34-002120		
P-34-002121		
P-34-002122		
P-34-002123		
P-34-002124		
P-34-002125		
P-34-002126		
P-34-002127		
P-34-002128		Pacific Fruit Farm
P-34-002129		
P-34-002130		
P-34-002131		
P-34-002132		
P-34-002133		
P-34-002134		
P-34-002135		
P-34-002136		
P-34-002137		
P-34-002138		
P-34-002139		
P-34-002140		Old Laguna Creek Bridge
P-34-002141		
P-34-002143		Sacramento River Levees
P-34-004030		Historic Grand Island Levee
P-58-000046	CA-YUB-000028/H	
P-58-000219	CA-YUB-000201H	Sicard Flat Hydraulic Mine
P-58-000222	CA-YUB-000204H	
P-58-000597	CA-YUB-000579H	
P-58-000644	CA-YUB-000626H	
P-58-000645	CA-YUB-000627H	
P-58-001159	CA-YUB-001141H	
P-58-001208	CA-YUB-001190	
P-58-001755		Cordua Canal
P-58-002224		
P-58-002225		
P-58-002228		
P-58-002229		McGanney Lane
P-58-002230		
P-58-002233		
P-58-002234		
P-58-002955	CA-YUB-001848H	JYU003; JYU002
P-58-002997	CA-YUB-001883H	MR #1; NID Canals near Smarts

No. resources: 258

Has informals: No

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County(ies): El Dorado, Nevada, Other, Placer, Sacramento, Yuba

USGS quad(s): ANTIOCH NORTH, AUBURN, BLUE CANYON, BROWNS VALLEY, BUFFALO CREEK, CAMPTONVILLE, CARBONDALE, CARMICHAEL, CHICAGO PARK, CISCO GROVE, CLARKSBURG, CLAY, COLFAX, COLOMA, COURTLAND, ECHO LAKE, EMERALD BAY, FIDDLETOWN, FLORIN, GALT, GARDEN VALLEY, GEORGETOWN, GOLD HILL, GOOSE CREEK, GRASS VALLEY, GREENWOOD, HOBART MILLS, HOMEWOOD, ISLETON, JERSEY ISLAND, KINGS BEACH, KYBURZ, LAKE COMBIE, LINCOLN, MARTIS PEAK, MEEKS BAY, NEVADA CITY, NORTH BLOOMFIELD, PILOT HILL, PLACERVILLE, PYRAMID PEAK, RIO VISTA, RIVERTON, ROSEVILLE, ROUGH AND READY, SLOUGHHOUSE, SMARTVILLE, TAHOE CITY, TRUCKEE, WASHINGTON, WHEATLAND, YUBA CITY

Address:

PLSS:

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	Date	*User*	
Entered:	5/15/2008	erin	
Last modified:	3/20/2023	paulrendes	
IC actions:	*Date*	*User*	*Action taken*
	8/28/2008	Machiel	Survey plotted in GIS
	3/13/2018	paulrendes	corrected authors
	4/19/2018	wagner	Verified approximate location.
Record status:	Verified		

Id□□□□□□r□

Report No.: 009989
Other IDs:
Cross-refs:

C□□□□□□ □□□r□ □□□□

Author(s):
Year: 2008 (May)
Title: Cultural Resources Inventory and Evaluation Report for the Freeport Regional Water Project, Sacramento and San Joaquin Counties, California
Affliliation: Jones and Stokes
No. pages: 439
No. maps:
Attributes: Archaeological, Field study
Inventory size:
Disclosure: Not for publication
Collections: No

Sub-desig.: B
Author(s):
Year: 2007 (Dec)
Title: Revised Addendum Cultural Resources Inventory Report for Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California-Extra Work Space on the Vineyard Road Pipeline Extension APE Modification FRWP-2007-03
Affiliation: Jones & Stokes
Report type(s): Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: C
Author(s):
Year: 2007 (Dec)
Title: Revised Addendum Cultural Resources Inventory Report for the Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California-APE Modification FRWP-2007-04
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: D
Author(s):
Year: 2008 (May)
Title: Revised Addendum Cultural Resources Inventory Report for Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California-APE Modification FRWP-2007-06
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: E
Author(s): Gabriel Roark
Year: 2008 (Mar)
Title: Revised Addendum to APE Modification FRWP-2007-06, Additional Spoils Storage Area on Segment 2 of the FRWA Pipeline, Freeport Regional Water Project
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: F
Author(s):
Year: 2008 (May)
Title: Revised Cultural Resources Inventory Report Addendum for Modifications to the Freeport Regional Water Project Area of Potential Effects, Sacramento and San Joaquin Counties, California: Two Spoils Storage and Staging Areas on Segment 2 of the FRWA Pipeline-APE Modification FRWP-2008-01
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: G
Author(s): Gabriel Roark
Year: 2008 (Mar)
Title: APE Modification FRWP-2008-02, Additional Spoils, Storage,, and Staging Areas on Segments 1 and 2 of the FRWA Pipeline and the Northern Pipeline Segment of the Folsom South Canal Connection, Freeport Regional Water Project-Revision
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: H
Author(s):
Year: 2008 (Jun)
Title: APE Modification FRWP-2008-03, Sediment Disposal Site at 9005 River Road, FRWA Intake Facility and Joint Pipeline, Freeport Regional Water Project
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: I
Author(s):
Year: 2008 (May)
Title: APE Modification FRWP-2008-04, Two Temporary Spoils and Equipment Storage Areas on Segment 2 of the FRWA Pipeline, Freeport Regional Water Project
Affiliation: Jones & Stokes
Report type(s): Archaeological, Excavation, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: J
Author(s):
Year: 2008 (Jul)
Title: Revised APE Modification FRWP-2008-07, Temporary Storage of Sediment and Construction of Temporary Project Facilities, FRWA Intake Facility and Joint Pipeline of the FRWA Pipeline, Freeport Regional Water Project-APE Modification without Prior Reclamation Approval
Affiliation: Jones & Stokes
Report type(s): Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: K
Author(s):
Year: 2008 (Jul)
Title: APE Modification FRWP-2008-09, Additional Sediment Storage and Equipement Staging Areas on Segment 2 of the FRWA Pipeline and the Middle Pipeline Segment of the Folsom South Canal Connection Pipeline, Freeport Regional Water Project-05-CCAO-197.9
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

Sub-desig.: L
Author(s):
Year: 2008 (Aug)
Title: Revised APE Modification FRWP-2008-10, Permanent Disposal Area on Segment 2 of the FRWA Pipeline, Freeport Regional Water Project and Warren Sediment Disposal Site, Folsom South Canal Connection Pipeline, Freeport Regional Water Project (05-CCAO-197.10)
Affiliation: Jones & Stokes
Report type(s): Archaeological, Field study, Literature search
Inventory size:
No. pages:
Disclosure: Not for publication
Collections: No
PDF Pages: -

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Primary No.	*Trinomial*	*Name*
P-34-000491	CA-SAC-000464H	Western Pacific Railway
P-34-000606	CA-SAC-000506H	Central California Traction Comp
P-34-000700	CA-SAC-000545H	Elk Grove-Florin Road
P-34-001302	CA-SAC-001230H	Western Pacific Railroad
P-34-001363		Morrison & Union House (Beaco
P-34-003859		Old Clay Station Rd
P-34-003860		
P-34-003861		
P-34-003862		
P-34-003863		
P-34-003864		
P-34-003865		Old Country Rd
P-34-003866		
P-34-003867		
P-34-003869		
P-34-003871		
P-34-003872		

No. resources: 17
Has informals: No

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County(ies): Sacramento
USGS quad(s): CARMICHAEL, CLARKSBURG, ELK GROVE, FLORIN, SLOUGHHOUSE
Address:
PLSS:

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	Date	*User*
Entered:	1/13/2009	aisha
Last modified:	9/19/2018	paulrendes

IC actions:	*Date*	*User*	*Action taken*
	1/14/2010	Machiel	Survey plotted in GIS by Aisha on 1/13/2009
	5/1/2018	wagner	Verified
	9/19/2018	paulrendes	added additional database info

Record status: Verified

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Id□□□□□□r□

Report No.: 010353
Other IDs:
Cross-refs:

C□□□□□□ □□□r□ □□□□

Author(s): EDAW | AECOM
Year: 2009 (Aug)
Title: Cultural Resources Inventory Report CSA Water T-Main and Florin Road Sewer Project Sacramento County, California
Affliliation: EDAW | AECOM
No. pages: 25
No. maps:
Attributes: Archaeological, Architectural/Historical, Field study
Inventory size: 2.5 linear miles
Disclosure: Not for publication
Collections: Unknown

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Primary No.	*Trinomial*	*Name*
P-34-000715		
P-34-001470	CA-SAC-000895H	
P-34-001514		
P-34-001515		Dias Family Ranch, 9720 Florin
P-34-001618	CA-SAC-000963H	
P-34-001625	CA-SAC-000969H	

No. resources: 6
Has informals: Yes

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County(ies): Sacramento
USGS quad(s): CARMICHAEL, ELK GROVE
Address:
PLSS:

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	Date	*User*
Entered:	11/30/2009	Ellen
Last modified:	3/19/2021	paulrendes

IC actions:	*Date*	*User*	*Action taken*
	12/1/2009	Ellen	digitized
	12/1/2009	Ellen	scanned 11/30/2009
	9/12/2017	paulrendes	verified gis
	3/5/2018	nicoleallison	Verified GIS

Record status: Verified

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Id□□□□□□r□

Report No.: 010735
Other IDs:
Cross-refs:

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Author(s): Adrian Whitaker and Phillip Kaijankoski
Year: 2010 (Sep)
Title: Archaeological Survey Report and Geoarchaeological Sensitivity Study for the PG&E Vineyard Surface Water Treatment Plant Project
Affliliation: Far Western
No. pages: 32
No. maps:
Attributes: Archaeological, Field study
Inventory size: 1.7 miles
Disclosure: Not for publication
Collections: Unknown

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No. resources: 0
Has informals: No

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County(ies): Sacramento
USGS quad(s): ELK GROVE
Address:
PLSS:

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	Date	*User*
Entered:	3/9/2011	kate
Last modified:	3/14/2018	nicoleallison

IC actions:	*Date*	*User*	*Action taken*
	3/10/2011	kate	plotted in GIS
	3/14/2018	nicoleallison	Verified GIS

Record status: Verified

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Report No.: 011363
Other IDs:
Cross-refs:

C□□□□□□ □□□r□ □□□□

Author(s): Ric Windmiller
Year: 2013 (Jul)
Title: SCWA Well #4 Cultural Resources Inventory and Evaluation Sacramento County, California
Affliliation: Consulting Archaeologist
No. pages: 25
No. maps:
Attributes: Archaeological, Field study
Inventory size:
Disclosure: Not for publication
Collections: Unknown

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	Primary No.	*Trinomial*	*Name*
	P-34-001597		

No. resources: 1
Has informals: No

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County(ies): Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS:

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	Date	*User*	
Entered:	2/14/2014	kate	
Last modified:	3/19/2018	wilson2	
IC actions:	*Date*	*User*	*Action taken*
	3/19/2018	wilson2	Entered in GIS

Record status: Verified

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Id□□□□□□r□

Report No.: 011723
Other IDs:
Cross-refs:

C□□□□□□□ □□□□r□ □□□□□

Author(s): Sarah C. Heffner
Year: 2014 (Nov)
Title: Heritage Resources Inventory Report for the Interim NSA Pipeline Project, Sacramento County, California
Affliliation: PAR Environmental Services
No. pages: 25
No. maps:
Attributes: Field study
Inventory size:
Disclosure: Unrestricted
Collections: No

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No. resources: 0
Has informals: No

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County(ies): Sacramento
USGS quad(s): CARMICHAEL, ELK GROVE
Address:
PLSS: T8N R6E Sec. 34, 35 MDBM

D□□□□□□□ r□□□rd □ □□□d□□□

	Date	*User*
Entered:	8/27/2015	amandaberkso
Last modified:	8/15/2017	jacobmackey

IC actions:
Record status: Verified

Report Display

Identification

Report No.: 012378
Other IDs:
Cross-refs:

Publication Information

Author(s):
Year: 2014 (Apr)
Title: Determination of Eligibility and Effect for the Aspen XIII and Aspen IX Projects, Sacramento County, California
Affliliation: Peak & Associates, Inc.
No. pages: 21
No. maps: 1
Attributes: Archaeological, Architectural/Historical, Field study
Inventory size:
Disclosure: Not for publication
Collections: No

Geography

Associated Records

	Primary No.	Trinomial	Name
	P-34-001865		
	P-34-001866		
	P-34-001867	CA-SAC-001027H	
	P-34-005196		9990 Elder Creek

No. resources: 4
Has informals: No

Location Information

County(ies): Sacramento
USGS quad(s): CARMICHAEL
Address:
PLSS: T8N R6E Sec. 27, 28, 33, 34 MDBM

Data Entry / Record Status

	Date	User
Entered:	11/6/2017	paulrendes
Last modified:	10/1/2018	paulrendes

IC actions:	Date	User	Action taken
	11/6/2017	paulrendes	gis
	10/1/2018	paulrendes	verified gis

Record status: Verified

Report Detail

Identification

Report No.: 013845
Other IDs:
Cross-refs:

Citation

Author(s):
Year: 2003 (Jul)
Title: Cultural Resources Inventory and Evaluation Report for the Bradshaw 6A, Bradshaw 6B, and Jackson Connector Interceptors
Affliliation: Jones & Stokes
No. pages: 41
No. maps:
Attributes: Evaluation
Inventory size:
Disclosure: Not for publication
Collections: No

General

Associated Records

Primary No.	Trinomial	Name
P-34-000689		Resource no. 2
P-34-001507		5861 Bradshaw Road
P-34-005492		5781 Bradshaw Road
P-34-005493		6059 Bradshaw Road
P-34-005494		Bridge No. 24C0341
P-34-005495		Bridge No 24C0342

No. resources: 6
Has informals: No

Location

County(ies): Sacramento
USGS quad(s): CARMICHAEL, ELK GROVE
Address:
PLSS: T7N R5E
T7N R6E
T8N R5E
T8N R6E

Data Entry

	Date	User
Entered:	4/27/2022	madisonlevesq
Last modified:	4/27/2022	madisonlevesq

IC actions:	Date	User	Action taken
	4/27/2022	madisonlevesqu	Plotted in GIS

Record status:

Appendix B

Tribal Correspondence

From: Roberto Mora
To: TribalChairman@auburnrancheria.com; THPO@auburnrancheria.com
Subject: RE: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination
Date: Friday, March 22, 2024 10:45:00 AM
Attachments: 20230225_01_GIS_001_APE_Topo.pdf
image007.png
image008.png
image009.png
image010.png
image002.png

Good morning,

This email is a follow-up regarding the **Aspen VIII and IX Use Permit Amendment Project** sent to you on March 07, 2024. A map of the APE is attached again here for your reference.

This contact to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes, and to inform the cultural resources survey report.
The Native American Heritage Commission has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you or the Tribe has any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know. My contact information is provided below.

Thank you for your time and attention.

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
Sent: Thursday, March 7, 2024 10:15 AM
To: TribalChairman@auburnrancheria.com; THPO@auburnrancheria.com
Subject: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination

Greetings!

I am contacting you today as part of the cultural resources background investigation for the Aspen VIII and IX Use Permit Amendment Project, located in unincorporated Sacramento County. Ascent has been retained to conduct the cultural resources assessment and technical study and this contact is concerning that effort. This contact is for informational

purposes to inform the cultural resources survey and assessment report, and to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes.

Project Description

The proposed project is an expansion of surface mining operations at Teichert's existing Aspen VIII & IX mining site. The existing entitlement allows for surface mining on approximately 353 acres of a 683-acre Area of Potential Effects (APE), with mining to be completed by December 31, 2031, and the site to be reclaimed by December 31, 2033. The proposed amendment would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres. In addition to expanding the mine boundary, the project will also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of the Aspen IX site, which will allow for material to continue to be conveyed offsite rather than transported by truck. The expansion of the mine area, as proposed, will extend the duration of mining operations, after which time the mine site will be reclaimed to open space grassland in a manner consistent with the current approvals. As such, the Project would also amend the term of the permit (Condition of Approval #7) extending mining until December 31, 2045, with reclamation to be complete December 31, 2047. The APE is located on the Carmichael 7.5' USGS Topographic Quadrangle at T 08N, R 06E, Sections 29, 33, and 34. A map of the APE location is attached to this email.

Previous Investigations

A record search has been conducted at the North Central Information Center and a pedestrian survey was completed on February 13 and 14, 2024. No indigenous archaeological resources have been previously identified within the APE and the survey was negative for the presence of indications of indigenous archaeological resources. The SLF search through the Native American Heritage Commission (NAHC) returned positive.

Information Request

The NAHC has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you have any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know so I can include that information in the cultural report. information provided regarding specific sites or Native American cultural resources will remain confidential. My contact information is provided below.

Thank you much for your time and attention,

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

ASCENT Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
To: "rhonda@buenavistatribe.com"
Subject: RE: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination
Date: Friday, March 22, 2024 10:44:00 AM
Attachments: 20230225_01_GIS_001_APE_Topo.pdf
image007.png
image008.png
image009.png
image010.png
image001.png

Good morning,

This email is a follow-up regarding the **Aspen VIII and IX Use Permit Amendment Project** sent to you on March 07, 2024. A map of the APE is attached again here for your reference.

This contact to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes, and to inform the cultural resources survey report.
The Native American Heritage Commission has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you or the Tribe has any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know. My contact information is provided below.

Thank you for your time and attention.

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | M 916.330.0624
roberto.mora@ascent.inc

Careers @ Ascent

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455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
Sent: Thursday, March 7, 2024 10:09 AM
To: rhonda@buenavistatribe.com
Subject: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination

Greetings!

I am contacting you today as part of the cultural resources background investigation for the Aspen VIII and IX Use Permit Amendment Project, located in unincorporated Sacramento County. Ascent has been retained to conduct the cultural resources assessment and technical study and this contact is concerning that effort. This contact is for informational purposes to inform the cultural resources survey and assessment report, and to comply with

36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes.

Project Description

The proposed project is an expansion of surface mining operations at Teichert's existing Aspen VIII & IX mining site. The existing entitlement allows for surface mining on approximately 353 acres of a 683-acre Area of Potential Effects (APE), with mining to be completed by December 31, 2031, and the site to be reclaimed by December 31, 2033. The proposed amendment would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres. In addition to expanding the mine boundary, the project will also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of the Aspen IX site, which will allow for material to continue to be conveyed offsite rather than transported by truck. The expansion of the mine area, as proposed, will extend the duration of mining operations, after which time the mine site will be reclaimed to open space grassland in a manner consistent with the current approvals. As such, the Project would also amend the term of the permit (Condition of Approval #7) extending mining until December 31, 2045, with reclamation to be complete December 31, 2047. The APE is located on the Carmichael 7.5' USGS Topographic Quadrangle at T 08N, R 06E, Sections 29, 33, and 34. A map of the APE location is attached to this email.

Previous Investigations

A record search has been conducted at the North Central Information Center and a pedestrian survey was completed on February 13 and 14, 2024. No indigenous archaeological resources have been previously identified within the APE and the survey was negative for the presence of indications of indigenous archaeological resources. The SLF search through the Native American Heritage Commission (NAHC) returned positive.

Information Request

The NAHC has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you have any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know so I can include that information in the cultural report. information provided regarding specific sites or Native American cultural resources will remain confidential. My contact information is provided below.

Thank you much for your time and attention,

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

ASCENT Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
To: cprout@colfaxrancheria.com; Pamela Cubbler; ctvctpreservation@gmail.com
Subject: RE: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination
Date: Friday, March 22, 2024 10:45:00 AM
Attachments: 20230225_01_GIS_001_APE_Topo.pdf
image007.png
image008.png
image009.png
image010.png
image002.png

Good morning,

This email is a follow-up regarding the **Aspen VIII and IX Use Permit Amendment Project** sent to you on March 07, 2024. A map of the APE is attached again here for your reference.

This contact to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes, and to inform the cultural resources survey report.
The Native American Heritage Commission has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you or the Tribe has any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know. My contact information is provided below.

Thank you for your time and attention.

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
Sent: Thursday, March 7, 2024 10:11 AM
To: cprout@colfaxrancheria.com; Pamela Cubbler <pcubbler@colfaxrancheria.com>; ctvctpreservation@gmail.com
Subject: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination

Greetings!

I am contacting you today as part of the cultural resources background investigation for the Aspen VIII and IX Use Permit Amendment Project, located in unincorporated Sacramento County. Ascent has been retained to conduct the cultural resources assessment and

technical study and this contact is concerning that effort. This contact is for informational purposes to inform the cultural resources survey and assessment report, and to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes.

Project Description

The proposed project is an expansion of surface mining operations at Teichert's existing Aspen VIII & IX mining site. The existing entitlement allows for surface mining on approximately 353 acres of a 683-acre Area of Potential Effects (APE), with mining to be completed by December 31, 2031, and the site to be reclaimed by December 31, 2033. The proposed amendment would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres. In addition to expanding the mine boundary, the project will also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of the Aspen IX site, which will allow for material to continue to be conveyed offsite rather than transported by truck. The expansion of the mine area, as proposed, will extend the duration of mining operations, after which time the mine site will be reclaimed to open space grassland in a manner consistent with the current approvals. As such, the Project would also amend the term of the permit (Condition of Approval #7) extending mining until December 31, 2045, with reclamation to be complete December 31, 2047. The APE is located on the Carmichael 7.5' USGS Topographic Quadrangle at T 08N, R 06E, Sections 29, 33, and 34. A map of the APE location is attached to this email.

Previous Investigations

A record search has been conducted at the North Central Information Center and a pedestrian survey was completed on February 13 and 14, 2024. No indigenous archaeological resources have been previously identified within the APE and the survey was negative for the presence of indications of indigenous archaeological resources. The SLF search through the Native American Heritage Commission (NAHC) returned positive.

Information Request

The NAHC has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you have any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know so I can include that information in the cultural report. information provided regarding specific sites or Native American cultural resources will remain confidential. My contact information is provided below.

Thank you much for your time and attention,

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

ASCENT Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
To: consultation@ionemiwok.net
Subject: RE: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination
Date: Friday, March 22, 2024 10:45:00 AM
Attachments: 20230225_01_GIS_001_APE_Topo.pdf
image007.png
image008.png
image009.png
image010.png
image002.png

Good morning,

This email is a follow-up regarding the **Aspen VIII and IX Use Permit Amendment Project** sent to you on March 07, 2024. A map of the APE is attached again here for your reference.

This contact to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes, and to inform the cultural resources survey report.
The Native American Heritage Commission has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you or the Tribe has any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know. My contact information is provided below.

Thank you for your time and attention.

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

ASCENT Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
Sent: Thursday, March 7, 2024 10:12 AM
To: consultation@ionemiwok.net
Subject: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination

Greetings!

I am contacting you today as part of the cultural resources background investigation for the Aspen VIII and IX Use Permit Amendment Project, located in unincorporated Sacramento County. Ascent has been retained to conduct the cultural resources assessment and technical study and this contact is concerning that effort. This contact is for informational

purposes to inform the cultural resources survey and assessment report, and to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes.

Project Description

The proposed project is an expansion of surface mining operations at Teichert's existing Aspen VIII & IX mining site. The existing entitlement allows for surface mining on approximately 353 acres of a 683-acre Area of Potential Effects (APE), with mining to be completed by December 31, 2031, and the site to be reclaimed by December 31, 2033. The proposed amendment would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres. In addition to expanding the mine boundary, the project will also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of the Aspen IX site, which will allow for material to continue to be conveyed offsite rather than transported by truck. The expansion of the mine area, as proposed, will extend the duration of mining operations, after which time the mine site will be reclaimed to open space grassland in a manner consistent with the current approvals. As such, the Project would also amend the term of the permit (Condition of Approval #7) extending mining until December 31, 2045, with reclamation to be complete December 31, 2047. The APE is located on the Carmichael 7.5' USGS Topographic Quadrangle at T 08N, R 06E, Sections 29, 33, and 34. A map of the APE location is attached to this email.

Previous Investigations

A record search has been conducted at the North Central Information Center and a pedestrian survey was completed on February 13 and 14, 2024. No indigenous archaeological resources have been previously identified within the APE and the survey was negative for the presence of indications of indigenous archaeological resources. The SLF search through the Native American Heritage Commission (NAHC) returned positive.

Information Request

The NAHC has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you have any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know so I can include that information in the cultural report. information provided regarding specific sites or Native American cultural resources will remain confidential. My contact information is provided below.

Thank you much for your time and attention,

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

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Note: *My email address has changed, please update your address book.*

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SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Vacant

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok, Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710

February 2, 2024

Roberto Mora
Ascent Environmental

Via Email to: Roberto.Mora@ascent.inc

Re: 20230225.01 Teichert- Aspen IX Cultural Project, Sacramento County

Dear Mr. Morai:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were positive. Please contact the tribes on the attached list for more information. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Sacramento County
2/2/2024

County	Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
Sacramento	Buena Vista Rancheria of Me-Wuk Indians	F	Rhonda Morningstar Pope, Chairperson	1418 20th Street, Suite 200 Sacramento, CA, 95811	(916) 491-0011	(916) 491-0012	rhonda@buenavistatribe.com	Me-Wuk	Amador,Sacramento,San Joaquin	
	Colfax-Todds Valley Consolidated Tribe	N	Clyde Prout, Chairperson	P.O. Box 4884 Auburn, CA, 95604	(916) 577-3558		c.prout@colfaxrancheria.com	Maidu Miwok	Amador,El Dorado,Nevada,Placer,Sacramento,Yuba	3/28/2023
	Colfax-Todds Valley Consolidated Tribe	N	Pamela Cubbler, Vice Chairperson	P.O. Box 4884 Auburn, CA, 95604	(530) 320-3943		pcubbler@colfaxrancheria.com	Maidu Miwok	Amador,El Dorado,Nevada,Placer,Sacramento,Yuba	3/28/2023
	Colfax-Todds Valley Consolidated Tribe	N	CTVCT Preservation, Cultural Preservation Dept.	P.O. Box 4884 Auburn, CA, 95604	(530) 320-6032		ctvctpreservation@gmail.com	Maidu Miwok	Amador,El Dorado,Nevada,Placer,Sacramento,Yuba	3/28/2023
	Ione Band of Miwok Indians	F	Sara Dutschke, Chairperson	9252 Bush Street Plymouth, CA, 95669	(209) 245-5800		consultation@ionemiwok.net	Miwok	Amador,Calaveras,El Dorado,Sacramento,San Joaquin	
	Shingle Springs Band of Miwok Indians	F	Krystal Moreno, TEK Program Manager				kmoreno@ssband.org	Maidu Miwok	Amador,El Dorado,Placer,Sacramento,Sutter,Yolo,Yuba	7/13/2023
	Shingle Springs Band of Miwok Indians	F	Dustin Murray, Tribal Administrator	P.O Box 1340 Shingle Springs, CA, 95682	(530) 957-8925		dumurray@ssband.org	Maidu Miwok	Amador,El Dorado,Placer,Sacramento,Sutter,Yolo,Yuba	7/13/2023
	Shingle Springs Band of Miwok Indians	F	Regina Cuellar, Chairperson	5281 Honpie Road Placerville, CA, 95667	(530) 698-1400	(530) 387-8067	info@ssband.org	Maidu Miwok	Amador,El Dorado,Placer,Sacramento,Sutter,Yolo,Yuba	7/13/2023
	Shingle Springs Band of Miwok Indians	F	Kara Perry, Director of Site Protection	5281 Honpie Road Placerville, CA, 95667	(530) 363-5123		kperry@ssband.org	Maidu Miwok	Amador,El Dorado,Placer,Sacramento,Sutter,Yolo,Yuba	7/13/2023
	Shingle Springs Band of Miwok Indians	F	James Sarmento, Executive Director of Cultural Resources	5281 Honpie Road Placerville, CA, 95667	(530) 698-1559		jsarmento@ssband.org	Maidu Miwok	Amador,El Dorado,Placer,Sacramento,Sutter,Yolo,Yuba	7/13/2023
	Shingle Springs Band of Miwok Indians	F	Malissa Tayaba, Vice Chairperson; Director of TEK	P.O. Box 1340 Shingle Springs, CA, 95682	(916) 468-2730		matayaba@ssband.org	Maidu Miwok	Amador,El Dorado,Placer,Sacramento,Sutter,Yolo,Yuba	7/13/2023
	Tsi Akim Maidu	N	Grayson Coney, Cultural Director	P.O. Box 510 Browns Valley, CA, 95918	(530) 383-7234		tsi-akim-maidu@att.net	Maidu	Butte,El Dorado,Lassen,Nevada,Placer,Plumas,Sacramento,Sierra,Yuba	
	United Auburn Indian Community of the Auburn Rancheria	F	Gene Whitehouse, Chairperson	10720 Indian Hill Road Auburn, CA, 95603	(530) 883-2390	(530) 883-2380	TribalChairman@auburnrancheria.com	Maidu Miwok	Amador,Butte,El Dorado,Nevada,Placer,Plumas,Sacramento,San Joaquin,Sierra,Solano,Sutter,Yolo,Yuba	12/13/2023
	United Auburn Indian Community of the Auburn Rancheria	F	Matt Moore, Tribal Historic Preservation Officer	10720 Indian Hill Road Auburn, CA, 95603	(530) 883-2390		THPO@auburnrancheria.com	Maidu Miwok	Amador,Butte,El Dorado,Nevada,Placer,Plumas,Sacramento,San Joaquin,Sierra,Solano,Sutter,Yolo,Yuba	12/13/2023
	Wilton Rancheria	F	Herbert Griffin, Executive Director of Cultural Preservation	9728 Kent Street Elk Grove, CA, 95624	(916) 683-6000		hgriffin@wiltonrancheria-nsn.gov	Miwok	Alameda,Alpine,Amador,Contra Costa,El Dorado,Mono,Nevada,Placer,Sacramento,San Joaquin,Solano,Stanislaus,Sutter,Yolo,Yuba	8/7/2023
	Wilton Rancheria	F	Cultural Preservation Department,	9728 Kent Street Elk Grove, CA, 95624	(916) 683-6000		cpd@wiltonrancheria-nsn.gov	Miwok	Alameda,Alpine,Amador,Contra Costa,El Dorado,Mono,Nevada,Placer,Sacramento,San Joaquin,Solano,Stanislaus,Sutter,Yolo,Yuba	8/7/2023
	Wilton Rancheria	F	Dahlton Brown, Executive Director of Administration	9728 Kent Street Elk Grove, CA, 95624	(916) 683-6000		dbrown@wiltonrancheria-nsn.gov	Miwok	Alameda,Alpine,Amador,Contra Costa,El Dorado,Mono,Nevada,Placer,Sacramento,San Joaquin,Solano,Stanislaus,Sutter,Yolo,Yuba	8/7/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed 20230225.01 Teichert- Aspen IX Cultural Project, Sacramento County.

Record: PROJ-2024-000470
Report Type: List of Tribes
Counties: Sacramento
NAHC Group: All

From:	Roberto Mora
To:	"kmoreno@ssband.org"; "dumurray@ssband.org"; "info@ssband.org"; "Kara Perry"; "James Sarmento"; "matayaba@ssband.org"
Subject:	RE: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination
Date:	Friday, March 22, 2024 10:45:00 AM
Attachments:	20230225_01_GIS_001_APE_Topo.pdf image007.png image008.png image009.png image010.png image002.png

Good morning,

This email is a follow-up regarding the **Aspen VIII and IX Use Permit Amendment Project** sent to you on March 07, 2024. A map of the APE is attached again here for your reference.

This contact to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes, and to inform the cultural resources survey report.
The Native American Heritage Commission has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you or the Tribe has any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know. My contact information is provided below.

Thank you for your time and attention.

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | M 916.330.0624
roberto.mora@ascent.inc

Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
Sent: Thursday, March 7, 2024 10:13 AM
To: kmoreno@ssband.org; dumurray@ssband.org; info@ssband.org; Kara Perry <kperry@ssband.org>; James Sarmento <jsarmento@ssband.org>; matayaba@ssband.org
Subject: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination

Greetings!

I am contacting you today as part of the cultural resources background investigation for the Aspen VIII and IX Use Permit Amendment Project, located in unincorporated Sacramento

County. Ascent has been retained to conduct the cultural resources assessment and technical study and this contact is concerning that effort. This contact is for informational purposes to inform the cultural resources survey and assessment report, and to comply with 36 CFR 800.2 for Section 106 nexus (Army Corps of Engineers 404 permit) for *coordination* purposes.

Project Description

The proposed project is an expansion of surface mining operations at Teichert's existing Aspen VIII & IX mining site. The existing entitlement allows for surface mining on approximately 353 acres of a 683-acre Area of Potential Effects (APE), with mining to be completed by December 31, 2031, and the site to be reclaimed by December 31, 2033. The proposed amendment would expand the existing mine both to the north and south, adding 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII (Aspen VIII Expansion Area) and adding 182.38 acres to Aspen IX south of Elder Creek (Aspen IX Expansion Area), thereby expanding the total mine area by 245.6 acres. In addition to expanding the mine boundary, the project will also include the extension of the existing conveyor belt over Elder Creek to reach the unmined southern areas of the Aspen IX site, which will allow for material to continue to be conveyed offsite rather than transported by truck. The expansion of the mine area, as proposed, will extend the duration of mining operations, after which time the mine site will be reclaimed to open space grassland in a manner consistent with the current approvals. As such, the Project would also amend the term of the permit (Condition of Approval #7) extending mining until December 31, 2045, with reclamation to be complete December 31, 2047. The APE is located on the Carmichael 7.5' USGS Topographic Quadrangle at T 08N, R 06E, Sections 29, 33, and 34. A map of the APE location is attached to this email.

Previous Investigations

A record search has been conducted at the North Central Information Center and a pedestrian survey was completed on February 13 and 14, 2024. No indigenous archaeological resources have been previously identified within the APE and the survey was negative for the presence of indications of indigenous archaeological resources. The SLF search through the Native American Heritage Commission (NAHC) returned positive.

Information Request

The NAHC has identified you as someone who may have information concerning cultural resources of tribal concern which may be present in the APE. If you have any knowledge of such resources within the APE, and are willing to share their nature and location, please let me know so I can include that information in the cultural report. information provided regarding specific sites or Native American cultural resources will remain confidential. My contact information is provided below.

Thank you much for your time and attention,

Roberto Mora, RPA
Archaeologist
Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc



Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
To: tsi-akim-maidu@att.net
Subject: RE: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination
Date: Friday, March 22, 2024 10:45:00 AM
Attachments: 20230225_01_GIS_001_APE_Topo.pdf
image007.png
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D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
Sent: Thursday, March 7, 2024 10:14 AM
To: tsi-akim-maidu@att.net
Subject: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination

Greetings!

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Roberto Mora, RPA
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Pronouns: he/him/his
D 916.732.3328 | **M** 916.330.0624
roberto.mora@ascent.inc

ASCENT Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From:	Roberto Mora
To:	Lou Griffin; Cultural Preservation Department Inbox; Dahlton Brown
Subject:	RE: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination
Date:	Friday, March 22, 2024 10:46:00 AM
Attachments:	20230225_01_GIS_001_APE_Topo.pdf image007.png image008.png image009.png image010.png image002.png

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D 916.732.3328 | M 916.330.0624
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Careers @ Ascent

Ascent
455 Capitol Mall, Suite 300
Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

From: Roberto Mora
Sent: Thursday, March 7, 2024 10:16 AM
To: Lou Griffin <hgriffin@wiltonrancheria-nsn.gov>; Cultural Preservation Department Inbox <cpd@wiltonrancheria-nsn.gov>; Dahlton Brown <dbrown@wiltonrancheria-nsn.gov>
Subject: Aspen VIII and IX Use Permit Amendment Project - USACE Section 106 coordination

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ASCENT Careers @ Ascent

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Sacramento, CA 95814
O 916.444.7301

Note: *My email address has changed, please update your address book.*

Appendix C

DPR Forms

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary# P-34-001867 **UPDATE**
HRI #
Trinomial CA-SAC-1027-H

CONTINUATION SHEET

Page 1 of 1 *Resource Name or # (Assigned by recorder) 7050 Knox Road
*Recorded by: R. Mora *Date February 13, 2024

This update is for the 7050 Knox Road which is a former farm headquarters comprised of foundation pads and some minor structural features. This historic-era archaeological resource was previously evaluated as not eligible for NRHP with SHPO concurrence (Polanco 2015). This site was relocated during the 2024 survey effort, and it remains unchanged since it was previously recorded and evaluated in 2015 (Mora 2024).



Photo 1. Foundation pad and structural remnants of an old farmhouse. Photo facing North. Taken on February 13, 2024.

Report Citations:

Mora, R. 2024. *Cultural Resources Technical Report for the Aspen V South/VIII and IX South Project*. Prepared for Teichert Construction.

Polanco, Julianne. 2015. *Section 106 Consultation for the Teichert Aspen VII & IX Project in Sacramento County, California (SPK-2008-00909)*. Prepared for the Office of Historic Preservation. Sacramento Army Corps of Engineers District.

CONTINUATION SHEET

This update is for the Cracker Jack Ranch which, when documented in 1996 (Mikesell), consisted of a house with a water tower, a large barn, some horse stalls, and various outbuildings associated with the ranch. This built environment resource was previously evaluated as not eligible for NRHP with SHPO concurrence (Widell 1997). This resource was no longer present when it was revisited as part of the 2024 cultural survey.

Report Citations:

Mora, R. 2024. *Cultural Resources Technical Report for the Aspen V South/VIII and IX South Project*. Prepared for Teichert Construction.

Mikesell, S.D. 1996. P-34-000690 Historic Resource Inventory DPR form for Cracker Jack Ranch. Prepared for Triangle Associates Inc. On file at the North Central Information Center, Sacramento State University.

Widell, C.E. 1997. *Morrison Creek Mining Reach South of Jackson Highway, Sacramento County*. Prepared for the Office of Historic Preservation. Sacramento Army Corps of Engineers District.

APPENDIX F

GEOTECHNICAL MEMORANDA

Project No. S9304-05-02A
June 7, 2024

VIA ELECTRONIC MAIL

Nick Cronenwett
Project Manager
Teichert Services Group
3500 American River Drive
Sacramento, CA 95746
ncronenwett@teichert.com

Subject: SUPPLEMENTAL GEOTECHNCIAL EVALAUTION
TEICHERT ASPEN VIII & IX EXPANSION AREAS
SACRAMENTO COUNTY, CALIFORNIA

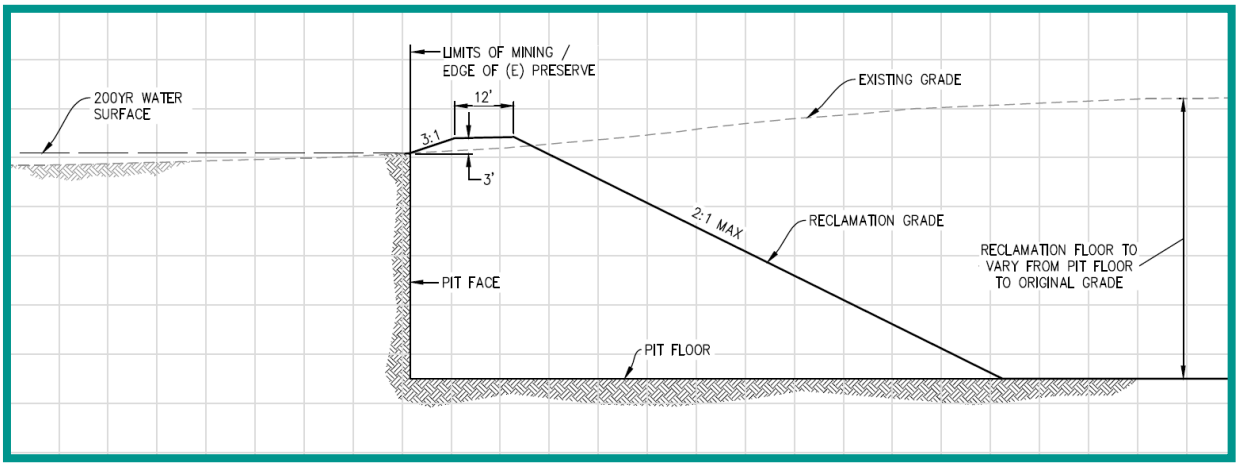
Reference:
1. *Geotechnical Memorandum – Teichert Aspen VIII and IX – Additional Seepage and Slope Stability Evaluation, Sacramento County, California*, Geocon Consultants, Inc., (S9304-05-02), July 7, 2016.
2. *Reclamation Plans for Aspen VIII & IX Expansion Areas, Sacramento County, California*, Cunningham Engineering, March 2024

Mr. Cronenwett:

In accordance with your request, we are pleased to submit this letter summarizing our supplemental geotechnical evaluation for the subject project. The project consists of aggregate mining at the Teichert Aspen VIII and IX sites located on Elder Creek Road between Bradshaw and Excelsior Roads in Sacramento County, California.

Geocon previously prepared the referenced geotechnical memorandum (Reference 1) summarizing the results of additional seepage and slope stability analyses for aggregate mining and reclamation at the mining projects adjacent to Elder Creek. As detailed in our previous memorandum, the current natural alignment of Elder Creek would be preserved, and mining would occur adjacent to the creek up to the Federal Emergency Management Agency (FEMA) 200-year flood zone. During reclamation, the mining slopes adjacent to the creek would be backfilled with compacted reclamation fill that would include a raised embankment approximately 3 feet high which will serve as a safety feature adjacent to the final, reclaimed slope. Based on the previous plan, the “berm” would be underlain completely by reclamation fill and, in some areas, partially by reclamation fill and partially by native, unmined soil. The results of our previous analyses indicated no adverse seepage or slope stability conditions. Our analysis assumed that the berm would include a “keyway” below the portion of the berm on native, unmined soil.

Based on the current reclamation plans (Cunningham Engineering, March 2024, Reference 2), the “berm” will be constructed with and completely underlain by reclamation fill; thus, the berm is essentially the same as the reclamation fill, built to the required elevation and configuration as shown in the detail below (Cunningham Engineering, 2024):



Geocon previously analyzed this same condition for slope stability and seepage as outlined in our July 2016 memo ("New Condition 2"). The results of our analyses indicated acceptable factors of safety for slope stability and no adverse seepage conditions.

Since the "berm" and underlying reclamation fill are essentially one and the same, there is no need for a keyway or any special provisions between the berm and underlying reclamation fill.

CLOSURE

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in the site area at this time. No warranty is provided, express or implied.

Please contact us if you have any questions regarding this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER
JEREMY J. ZORNE
No. 2636
GEOTECHNICAL
STATE OF CALIFORNIA

Jeremy J. Zorne, PE, GE
Senior Engineer

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9304-05-02
July 25, 2016

VIA ELECTRONIC MAIL

Mr. John Lane
Teichert Aggregates
3500 American River Drive
Sacramento, California 95864-5808

Subject: GEOTECHNICAL MEMORANDUM
TEICHERT ASPEN VIII AND IX
ADDITIONAL SEEPAGE AND SLOPE STABILITY EVALUATION
SACRAMENTO COUNTY, CALIFORNIA

References:
1. *Geotechnical Memorandum – Teichert Aspen VIII and IX – Additional Seepage and Slope Stability Evaluation, Sacramento County, California*, Geocon Consultants, Inc., (S9304-05-02), December 11, 2014.
2. *Geotechnical Memorandum – Teichert Aspen VIII and IX – Additional Seepage and Slope Stability Evaluation, Sacramento County, California*, Geocon Consultants, Inc., (S9304-05-02), July 7, 2016.

Dear Mr. Lane:

Geocon previously prepared the referenced technical memoranda (Refs. 1 and 2) related to the geotechnical aspects of the planned mining and reclamation slopes for the future Teichert Aspen VIII and IX mining site adjacent to Elder creek in Sacramento County, California.

Our previous analyses and recommendations were associated solely with the slopes related to proposed mining and reclamation adjacent to Elder Creek. We understand that the remainder of the planned reclamation perimeter slopes away from the creek will be constructed using compacted overburden soil from the project at an inclination of 2H:1V (horizontal to vertical) or flatter, which is typical of nearly all of the reclamation slopes for the aggregate mining quarries in the area. Based on the past performance of these slopes, and our experience analyzing stability of similar slopes, these slopes should perform satisfactorily from a global stability perspective without special measures beyond typical periodic maintenance.

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in the site area at this time. No warranty is provided, express or implied.

Please contact us if you have any questions regarding this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Jeremy J. Zorne, PE, GE
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
JEREMY J. ZORNE
No. 2698
GEOTECHNICAL
STATE OF CALIFORNIA

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9304-05-02
July 7, 2016

VIA U.S. AND ELECTRONIC MAIL

Mr. John Lane
Teichert Aggregates
3500 American River Drive
Sacramento, California 95864-5808

Subject: GEOTECHNICAL MEMORANDUM
TEICHERT ASPEN VIII AND IX
ADDITIONAL SEEPAGE AND SLOPE STABILITY EVALUATION
SACRAMENTO COUNTY, CALIFORNIA

Reference: 1. *Geotechnical Memorandum – Teichert Aspen VIII and IX – Additional Seepage and Slope Stability Evaluation, Sacramento County, California*, Geocon Consultants, Inc., (S9304-05-02), December 11, 2014.

Dear Mr. Lane:

In accordance with your request, we have prepared this correspondence summarizing the results of additional seepage and slope stability analyses for future aggregate mining and reclamation at the Teichert Aspen VIII and IX sites located on Elder Creek Road between Bradshaw and Excelsior Roads in Sacramento County, California.

In our previous study (referenced above), we analyzed seepage and slope stability for Elder Creek berm where the mining slope extends from the outside toe of the future berm, such that the new berm is founded on a full-width keyway underlain by undisturbed, native materials (Figure A, below). We understand that, in some locations, the limits of mining may be such that the mining slope is located below the approximate mid-point of the future berm such that the berm is underlain partially by reclamation fill and partially by undisturbed native materials (Figure B, below) or underlain fully by reclamation fill (Figure C, below).

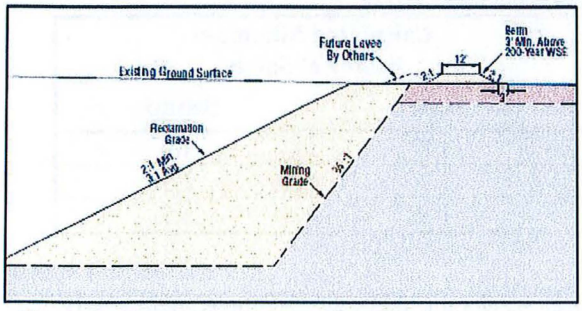


Figure A – Previously Analyzed Condition

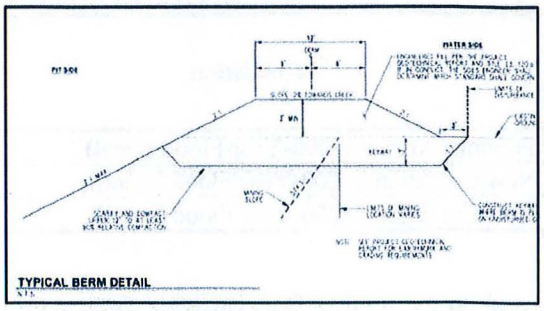


Figure B – New Condition 1

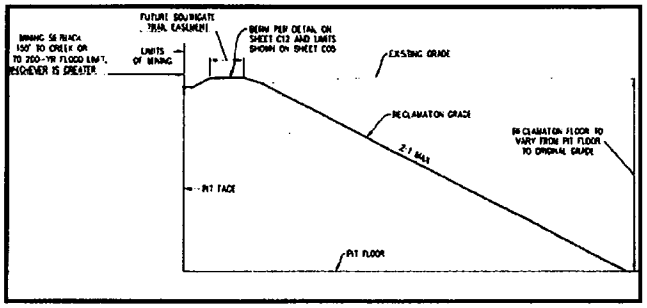


Figure C – New Condition 2

As requested, we have analyzed the new conditions to evaluate whether there is an appreciable reduction/decrease in slope stability resistance and/or adverse seepage.

Seepage Analysis and Results

To model seepage conditions, we used the computer program *SEEP/W, Version 7* (Geo-Slope International). In our analyses, we modeled the "worst case" transient 200-year flood event in the creek and floodplain channel using a high-flow duration of 30 days. The results of our analyses indicate that the seepage front does not intercept the proposed mining or reclamation slopes for both new conditions under low-flow or 200-year flood conditions. This result is consistent with our previous analysis. Our seepage analysis results are presented graphically on Figures 1 through 4.

Slope Stability Analysis and Results

We analyzed stability of the proposed final reclamation slopes using the computer program *SLOPE/W, Version 7.22* (Geo-Slope International) for static and seismic conditions for the "worst case" 200-year flood conditions. Similar to our previous analysis, Spencer's Method with a circular failure mechanism was used.

The results of our previous and new slope stability analyses are summarized in Table 2. Graphical representations of the potential critical failure surfaces and parameters used for each stability analysis are presented on Figures 1 and 2.

TABLE 2
SLOPE STABILITY ANALYSIS RESULTS

Condition	Calculated Minimum Factor of Safety	
	Static	Seismic
Previous Analysis (200-Year Flood Event)	1.7	1.5
New Condition 1 (200-Year Flood Event)	1.7	1.5
New Condition 2 (200-Year Flood Event)	1.7	1.5

Based on the results of our analyses, from a geotechnical viewpoint, the new conditions yield nearly identical seepage and slope stability results. In our opinion, similar to the previously analyzed condition, the new conditions are not expected to result in adverse seepage and/or slope stability conditions.

LIMITATIONS

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in the site area at this time. No warranty is provided, express or implied.

Please contact us if you have any questions regarding this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.



Jeremy J. Zorne, PE, GE
Senior Engineer

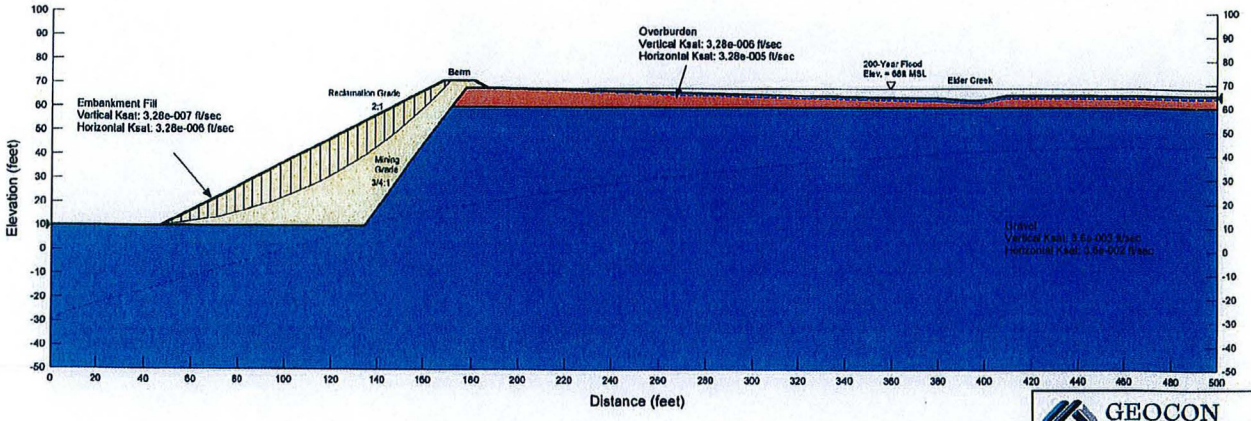
William Sanders, EIT
Senior Staff Engineer

Attachments: Figure 1, New Condition 1 – Seepage and Static Slope Stability
Figure 2, New Condition 1 – Seepage and Seismic Slope Stability
Figure 3, New Condition 2 – Seepage and Static Slope Stability
Figure 4, New Condition 2 – Seepage and Seismic Slope Stability

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 6/24/2016
Time: 2:44:37 PM

Analysis: 200-Year Flood
Method: Spencer 1.67
Elapsed Time: 30 Days
Slip Surface Option: GridAndRadius
Horz Seismic Load: 0

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 150 Phi: 30
Description: Embankment Fill: Wt: 120 Cohesion: 100 Phi: 34
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 40



GEOCON
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3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA 95742
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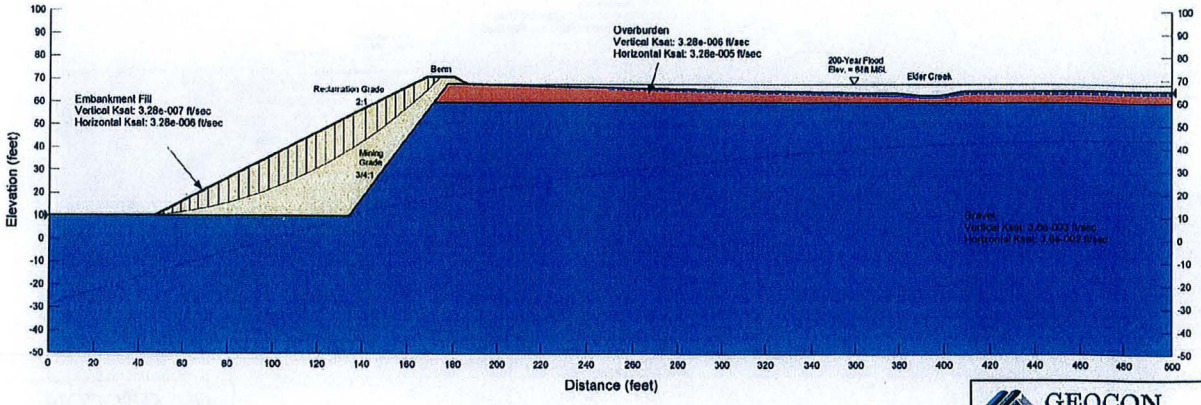
Aspen VIII & IX
Elder Creek Road,
Sacramento County, California

New Condition 1
Seepage and Static Slope Stability

S9304-05-02	July 2016	Figure 1

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 6/24/2016
Time: 2:41:16 PM
1.45
Analysis: 200-Year Flood
Method: Spencer
Elapsed Time: 30 Days
Slip Surface Option: GridAndRadius
Horz Seismic Load: 6.e-002

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 150 Phi: 30
Description: Embankment Fill: Wt: 120 Cohesion: 100 Phi: 34
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 40



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Aspen VIII & IX

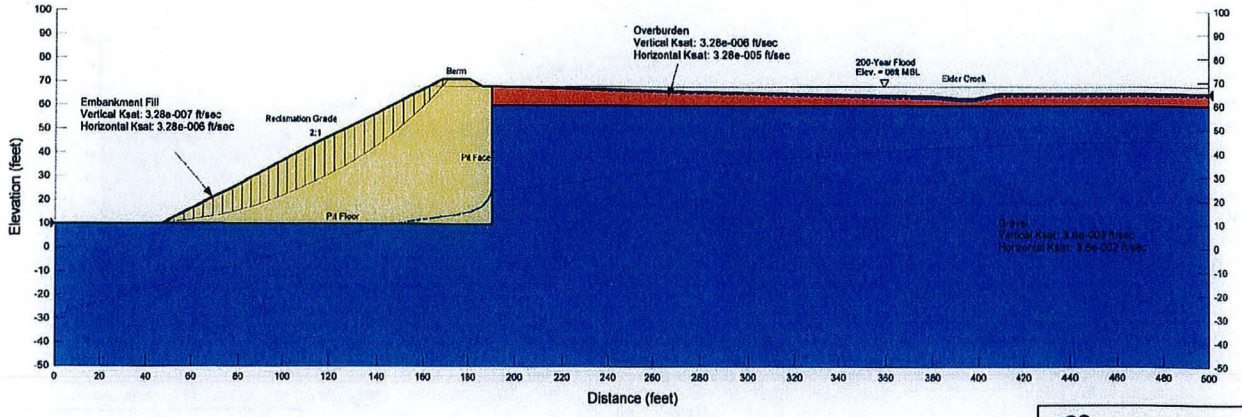
Elder Creek Road,
Sacramento County, California

New Condition 1
Seepage and Seismic Slope Stability

S9304-05-02	July 2016	Figure 2

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 7/6/2016
Time: 3:24:15 PM
1.67
Analysis: 200-Year Flood
Method: Spencer
Elapsed Time: 30 Days
Slip Surface Option: GridAndRadius
Horz Seismic Load: 0

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 150 Phi: 30
Description: Embankment Fill: Wt: 120 Cohesion: 100 Phi: 34
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 40



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Aspen VIII & IX
Elder Creek Road,
Sacramento County, California

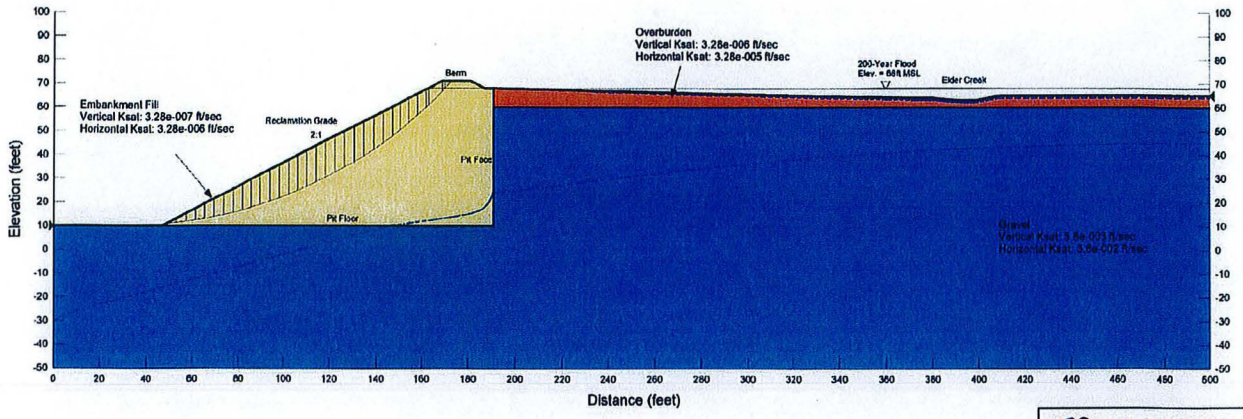
New Condition 2
Seepage and Static Slope Stability

S9304-05-02	July 2016	Figure 3

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 7/6/2016
Time: 3:34:48 PM

Analysis: 200-Year Flood
Method: Spencer
Elapsed Time: 30 Days
Slip Surface Option: GridAndRadius
Horz Seismic Load: 6.e-002

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 150 Phi: 30
Description: Embankment Fill: Wt: 120 Cohesion: 100 Phi: 34
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 40



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Aspen VIII & IX
Elder Creek Road,
Sacramento County, California

New Condition 2
Seepage and Seismic Slope Stability

S9304-05-02	July 2016	Figure 4

GEOCON
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GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9304-05-02
December 11, 2014

VIA U.S. AND ELECTRONIC MAIL

Mr. John Lane
Teichert Aggregates
3500 American River Drive
Sacramento, California 95864-5808

Subject: GEOTECHNICAL MEMORANDUM
TEICHERT ASPEN VIII AND IX
ADDITIONAL SEEPAGE AND SLOPE STABILITY EVALUATION
SACRAMENTO COUNTY, CALIFORNIA

References:
1. *Geotechnical Investigation for Slope Evaluation, Aspen VIII and IX Mining Projects, Elder Creek Road, Sacramento County, California*, Geocon Consultants, Inc., December 7, 2007.

Dear Mr. Lane:

In accordance with your request, we have prepared this correspondence summarizing the geotechnical aspects of the proposed change in conditions for future aggregate mining and reclamation at the Teichert Aspen VIII and IX sites located on Elder Creek Road between Bradshaw and Excelsior Roads in Sacramento County, California. The approximate site location is shown on the Vicinity Map, Figure 1.

PURPOSE AND SCOPE

The purpose of our services was to use existing project data to perform seepage and slope stability analyses, and provide associated geotechnical recommendations pertaining to site mining and reclamation as presently planned.

To prepare this report, we performed the following scope of services:

- Performed a review of existing/available geotechnical reports, geologic data, aerial photographs, and other literature pertaining to the site to aid in evaluating geologic and geotechnical conditions at the sites;
- Reviewed available reclamation plans for the sites;
- Used existing project geotechnical and laboratory testing data to perform seepage and slope stability analyses, and to provide associated geotechnical recommendations pertaining to site mining and reclamation as presently planned; and
- Prepared this geotechnical memorandum with our conclusions and recommendations regarding embankment and slope geometry, location, and construction.

SITE AND PRO□ECT INFORMATION

The site includes Aspen VIII (Assessor's Parcel Number [APN] 063-0180-005, -006, and 063-0160-001) and Aspen IX (APNs 066-0020-006, 066-0030-001, and 066-0050-003) which are approximately 319 acres and 363 acres, respectively. Aspen VIII and IX are located north and south of Elder Creek Road, respectively, between Bradshaw and Excelsior Roads in Sacramento County, California. The site currently consists of fields for cattle grazing, three residences, buildings associated with grazing and agriculture, and high-voltage power line towers. Elder Creek traverses through the site from a northeasterly to southwesterly direction. Site conditions are depicted on the Site Plan, Figure 2.

Site topography generally slopes gently downward from east to west with surface elevations ranging from approximately 85 feet above mean sea level (MSL) along the east side of the site to approximately 65 feet along the west side of the site.

Teichert previously planned to mine the entire Aspen VIII and IX sites for gravel resources and construct an elevated earthen "structure" to contain a newly constructed, realigned Elder Creek. Geocon previously performed a geotechnical investigation and evaluated the seepage and slope stability conditions for the project (Geocon, 2007).

We understand that Teichert now plans to preserve the current natural alignment of Elder Creek on the Aspen VIII and IX sites. Current plans call for mining no closer than 150 feet from the edge of Elder Creek and no closer than 30 feet from the Federal Emergency Management Agency (FEMA) 200-year flood zone. The proposed inclination of the mining slopes is ¾H:1V and the proposed inclination of the reclamation slopes is no steeper than 2H:1V.

Teichert also plans to construct a raised embankment approximately 3 feet high and no closer than 3 feet from the 200-year flood zone which will serve as a safety feature adjacent to the final, reclaimed mine slope. The proposed mining area is depicted on Figure 2.

We understand that the post-reclamation end-use of the site may include agricultural and/or residential land use.

SOIL AND GEOLOGIC CONDITIONS

The site is underlain predominantly by consolidated Pliocene-Age alluvium of the Laguna Formation (CGS, 2011). The onsite soil consists of two characteristic layers: clayey overburden and underlying clayey gravel with cobbles. The upper layer (overburden) consists primarily of firm to very stiff sandy lean clay (CL) and variable occurrences of medium dense clayey sand (SC). During our prior investigation, we observed that overburden thickness ranged from 1 to 11 feet in our exploratory trenches (Geocon, 2007).

Soil below the overburden generally consists of medium dense to very dense clayey gravel (GC) with cobbles up to 8 inches. The gravel and cobble includes weathered to fresh metavolcanics and cemented sandstones and will be the aggregate source for these mining projects. The strata proposed for mining overlays variably weathered, fine-clastic deposits of sandstone, siltstone, mudstone, and claystone.

GROUNDWATER

Review of the most recent (Spring 2007) *Sacramento County Groundwater Elevation Map* (Sacramento County, 2009) indicates the average springtime groundwater elevation at the site was approximately 30 feet below MSL. Based on site elevation, the current depth to groundwater at the site predicted by this data is approximately 85 to 105 feet.

It should be noted that fluctuations in the level of groundwater may occur due to variations in rainfall, temperature, and other factors. Depth to groundwater can also vary significantly due to localized pumping, irrigation practices, and seasonal fluctuations.

SEISMICITY

In order to determine the distance of closest known active faults to the site, we used the computer program *EQFAULT*, (Version 3, Blake, 2000). Principal references used within *EQFAULT* are Jennings (1975), Anderson (1984) and Wesnousky (1986). The results of the *EQFAULT* query indicate the Foothills Fault System, located 17½ miles to the east, is the closest source of potential ground motion at the site. The Great Valley Fault is the next closest, located 34½ miles to the west.

We used the USGS computer program *2008 Interactive Deaggregations* to estimate the PGA and modal (most probable) distance and magnitude associated with a 2% chance of exceedance in 50 years (2,475-year event). For an alluvial soil type, the USGS estimated PGA is 0.25g, the modal distance is 62.5 km and the modal magnitude is 6.8.

We used the online USGS application *Seismic Design Maps* to evaluate the site class modified, design-level Peak Ground Acceleration (PGA_M) for the site, for use in seismic slope stability analysis. The PGA_M for the site is 0.231g.

SEEPAGE AND SLOPE STABILITY ANALYSIS

The proposed mining/reclamation slopes will be separated (set back) from Elder Creek by a minimum of 150 feet. The proposed raised embankment (approximately 3 feet high) will be constructed at existing grade over the in-situ overburden materials. The subsequent mining and reclamation slopes will descend at slopes of ¾H:1V and no steeper than 2H:1V, respectively, from the "land side" toe of the embankment to the planned mining depth of approximately Elevation +10 feet MSL. We assumed 2H:1V side slopes for the embankment and an embankment top width of 12 feet. This configuration is shown on Figure 3, Typical Cross-Section.

We understand that the embankments and reclamation slope will be constructed with engineered fill derived from onsite overburden. The overburden consists of predominantly fine-grained soils (CL and ML). Below the overburden, dense gravel deposits are present above weathered sandstone, siltstone, mudstone, and claystone. Static groundwater is at approximately elevation -30 feet MSL, which is below the planned depth of mining.

M□□□r□□□P□r□□ □□□r□

To select appropriate material parameters for our seepage and slope stability analyses, we used the information derived from our previous geotechnical investigation (Geocon, 2007) and drill hole and laboratory grain size distribution information obtained from Teichert, published correlations (e.g., Alyamani and Sen, 1993), engineering judgment, and experience with similar soils in the local area. The material parameters used in our analyses are summarized in Table 1.

TABLE □
SOIL PARAMETERS FOR SEEPAGE AND SLOPE STABILITY ANALYSES

Material Type	Total Unit Weight (pcf)	Cohesion, C (psf)		Friction Angle, ϕ (degrees)		Permeability (ft/sec)	
		Total	Effective	Total	Effective	Vertical	Horizontal
Embankment/ Reclamation Fill	120	800	100	20	34	$3.28x10^{-7}$	$3.28x10^{-6}$
Overburden	120	200	150	28	30	$3.28x10^{-6}$	$3.28x10^{-5}$
Gravels	135	50	50	32	40	$3.6x10^{-3}$	$3.6x10^{-2}$

Notes: pcf = pounds per cubic foot psf = pounds per square foot

We assumed a generally flat soil layer stratigraphy consistent with the depositional and erosional geology of the site.

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We analyzed dynamic (seismic) slope stability using a pseudo-static approach in which the earthquake load is simulated by an "equivalent" static horizontal acceleration acting on the mass of the slope. This methodology is generally considered to be conservative and is most often used in current practice.

We calculated the seismic coefficient using the procedures presented in *Special Publication 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California* (CGS 2008). In this procedure, the seismic coefficient is equal to a portion of the design-level PGA_M for a soft rock site condition without the risk coefficient (PGA_M/1.5). Assuming a 15-cm displacement threshold, a PGA_M/1.5 of 0.23g, a modal distance of 62.5 km, and a modal magnitude of 6.8, the calculated seismic coefficient is 0.06.

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The proposed mining/reclamation slopes will be separated (set back) from Elder Creek by a minimum of 150 feet, as depicted on Figure 3. To model seepage conditions, we used the computer program *SEEP/W, Version 7* (Geo-Slope International). In our analyses, we considered the initial condition for the site to be the average low-flow condition in the creek assuming constant head conditions year-round. We used a low-flow water elevation of 64 feet MSL. We modeled the seepage front over a 100-year time period to mimic steady-state conditions. We then modeled a transient 200-year flood event in the creek and floodplain channel using a high-flow duration of 30 days. Our seepage analysis results are presented graphically on Figures 4 and 5.

The results of our analyses indicate that the seepage front does not intercept the proposed mining or reclamation slopes under low-flow or 200-year flood conditions, even with low-flow conditions sustained indefinitely (100 years).

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We analyzed stability of the proposed final reclamation slopes using the computer program *SLOPE/W, Version 7.22* (Geo-Slope International) for static and seismic conditions for both the steady-state (low-flow) and 200-year flood conditions.

SLOPE/W uses conventional slope stability equations and a two-dimensional limit-equilibrium method to calculate the factor of safety (FOS) against deep-seated failure. For our analyses, Spencer's Method with a circular failure mechanism was used. Spencer's Method satisfies both moment and force equilibrium. The computer program searches for the critical failure surface based on user-provided input parameters. The critical failure surface for each analysis is shown on computer-generated output. The FOS is shown on each figure directly above the failure surface. For a circular failure search, a grid of search midpoints and radii are specified, and the computer searches for the critical failure surface. The critical failure surface is shown as the hatched area on each figure.

The results of our slope stability analysis (FOS) under the different conditions of analysis (e.g. low-flow, 200-year flood, static and seismic) are summarized in Table 2. Graphical representations of the potential critical failure surfaces and parameters used for each stability analysis are presented on Figures 6 through 9.

TABLE
SLOPE STABILITY ANALYSIS RESULTS

Condition	Calculated Minimum Factor of Safety	
	Static	Seismic
Steady-State Low-Flow Conditions	1.7	1.5
200-Year Flood Event (30-day duration)	1.7	1.5

CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical viewpoint, in our opinion, the currently proposed mining and reclamation plan is not expected to adversely impact seepage and/or slope stability conditions for the following reasons:

- The results of our analyses indicate that the seepage front does not intercept the proposed mining or reclamation slopes under low-flow or 200-year flood conditions, even with low-flow conditions sustained indefinitely (100 years).
- The results of our slope stability analyses for a 2:1 reclamation slope indicate FOS that are above the commonly required minimum FOS of 1.5 for long-term static stability and FOS of 1.1 for pseudo-static (seismic) stability. Therefore, the proposed reclamation slopes for the project appear to be appropriate for the proposed end use of the site from a static and seismic viewpoint provided the recommendations contained in this report are incorporated into the design and construction of the project. Our slope stability analysis results are presented in Figures 6 through 9.

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- Based on the soils encountered during prior investigations and the results of our slope stability analyses, properly constructed and compacted reclamation slopes should be constructed at an inclination of 2H:1V or flatter.
- To increase stability, reduce underseepage potential, and provide a stable foundation for the embankment, the full length of the embankment should be provided with an embankment-width keyway. The keyway should have a minimum embedment depth of 3 feet into firm, competent, undisturbed soil. The actual depth of the keyway should be evaluated by a Geocon representative during construction. Keyway backslopes should be no flatter than 1:1.

- For future reclamation slopes north of Elder Creek, if the pit bottom slopes greater than 5H:1V, then we recommend that a keyway be cut into the quarry pit bottom at the toe of the reclamation fill slope. In general, the keyway should be at least 20 feet wide and extend at least 3 feet into competent, undisturbed soil. The reclamation fill should be benched into the adjacent native materials as the fill is placed. Benches should roughly parallel the slope contours and extend at least 3 feet into competent, undisturbed material. Although not anticipated, if active seepage is encountered in the temporary mining slopes, subdrains may be required along the back edge of the keyway and/or benches of the reclamation fill. Keyway and benching construction criteria may need revision during construction based on actual conditions encountered in the field.
- To reduce potential for seepage along pipe penetrations (if present), we recommend providing concrete cut-off collars at pipe penetrations through the embankment. Reinforced concrete cut-off collars should completely encircle the pipe and should be sized such that they are 12 to 18 inches larger than the nominal outside diameter of the pipe. Thickness should be at least 6 inches. Water-tight filler should be used between collars and pipes.
- Due to the fine-grained composition of the onsite soil to be used in embankment and reclamation slope construction, surficial erosion, rutting, and localized sloughing should be expected. These occurrences should be considered on-going maintenance issues and should be diligently addressed. Erosion control measures should be evaluated and determined by the project civil engineer.

FURTHER GEOTECHNICAL SERVICES

P□□□ R□□□□□

We should review the reclamation plans prior to final submittal to confirm that our recommendations have been properly implemented and evaluate if additional analysis and/or recommendations are required.

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The recommendations provided in this report are based on the assumption that we will continue as Geotechnical Engineer of Record throughout the construction phase. It is important to maintain continuity of geotechnical interpretation and confirm that field conditions encountered are similar to those anticipated during design. If we are not retained for these services, we cannot assume any responsibility for other's interpretation of our recommendations or the future performance of the projects.

LIST OF REFERENCES

1. Alyamani, M.S. and Z. Sen, 1993, *Determination of Hydraulic Conductivity from Complete Grain-Size Distribution Curves*, Groundwater, Vol. 31, No. 4, July-Aug., pp. 551-555.

2. Blake, T.F., 2000, EQFAULT, *A Computer Program for the Deterministic Prediction of Peak Horizontal Acceleration from Digitized California Faults*, Version 2.20.

3. California Geological Survey, 2008, *Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117A*, revised and re-adopted September 11, 2008.

4. CGS, 2011, *Preliminary Geologic Map of the Sacramento 30' x 60' Quadrangle, California*, Gutierrez, C.I. (compiler), scale 1:100,000.

5. Cunningham Engineering, Topographic Base Map (provided electronically), undated.

6. Geocon Consultants, Inc., *Geotechnical Investigation for Slope Evaluation, Aspen VIII and IX Mining Projects, Elder Creek Road, Sacramento County, California*, Project No. S9304-06-01, December 7, 2007.

7. Geocon Consultants, Inc., *Geotechnical Investigation for Slope Evaluation, Morrison Creek Realignment Project, Sacramento County, California*, Project No. S9324-06-01, February 6, 2008.

8. Jennings, C.W. and W.A. Bryant, 2010, *Fault Activity Map of California*, California Geological Survey, Geologic Data Map No. 6.

9. Sacramento County, 2009, *Sacramento County, Groundwater Elevations, Spring 2007*, prepared by County Department of Water Resources, dated March 2009.

10. United States Geological Survey, *2008 Interactive Deaggregations*, http://geohazards.usgs.gov/deaggint/2008/.

11. Unpublished reports, aerial photographs, and maps on file with Geocon.

LIMITATIONS

The recommendations of this report pertain only to the site investigated, are based upon the assumption that the soil conditions do not deviate from those disclosed in the investigation, and assume that the post-mining use of the site will be for agriculture and/or residential development. If any variations or undesirable conditions are encountered during construction, or if the proposed construction or post-reclamation end-use will differ from that anticipated herein, we should be notified so that supplemental recommendations can be given. The evaluation or identification of the potential presence of hazardous materials or environmental contamination was not part of our scope of services.

This report is issued with the understanding that it is the responsibility of the owner or their representative to ensure that the information and recommendations contained herein are brought to the attention of the design team for the projects and incorporated into the plans and specifications and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

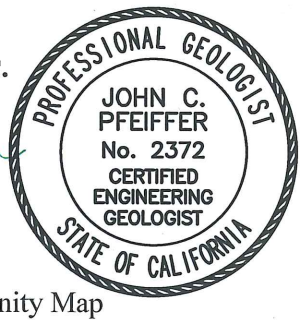
The recommendations contained in this report are preliminary until verified during construction by representatives of our firm. Changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. Additionally, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated partially or wholly by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in the site area at this time. No warranty is provided, express or implied.

Please contact us if you have any questions regarding this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

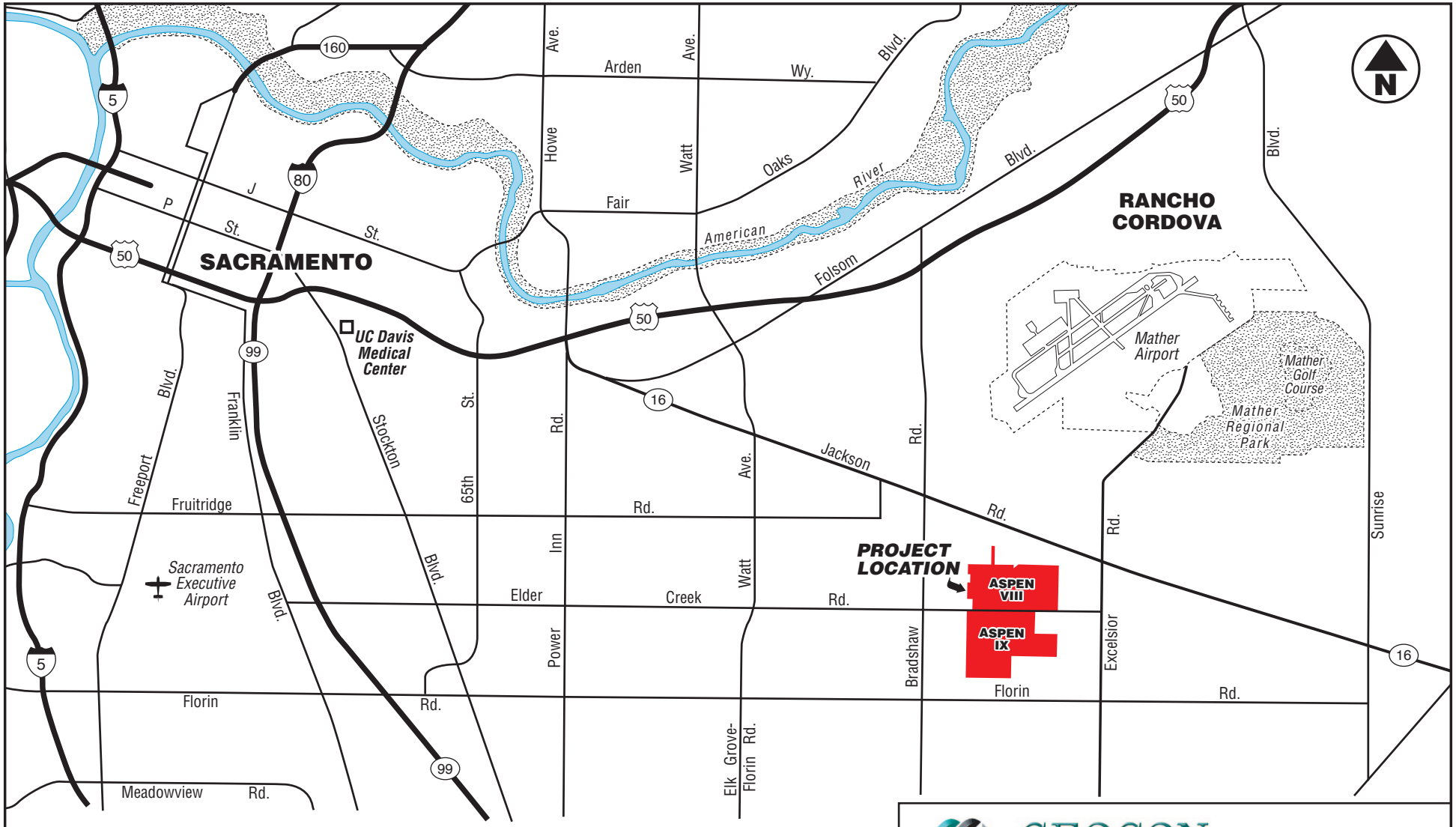




John C. Pfeiffer, PG, CEG
Senior Geologist

Jeremy J. Zorne, PE, GE
Senior Geotechnical Engineer

Attachments: Figure 1, Vicinity Map
Figure 2, Site Plan
Figure 3, Typical Cross-Section
Figure 4, Seepage at Low Flow
Figure 5, Seepage at 200-Year Flood
Figure 6, Static Slope Stability at Low-Flow
Figure 7, Seismic Slope Stability at Low-Flow
Figure 8, Static Slope Stability at 200-Year Flood
Figure 9, Seismic Slope Stability at 200-Year Flood



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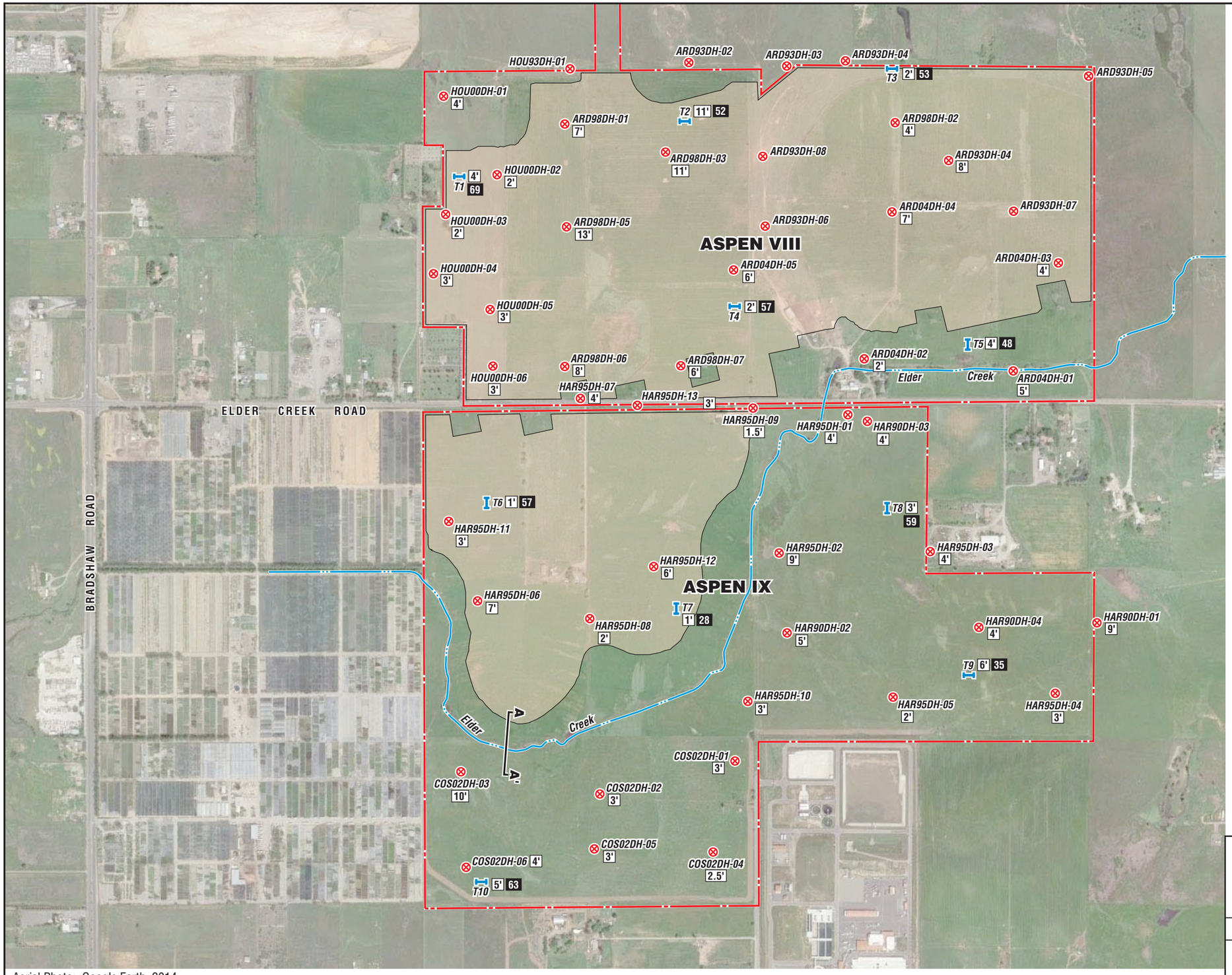
Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

VICINITY MAP

S9304-05-02	December 2014	Figure 1



Aerial Photo: Google Earth, 2014

LEGEND:

- Approximate Project Boundary
- Proposed Mining Area
- T1 — Approximate Exploratory Trench Location (Geocon, 2007)
- HAR95-DH-03 — Approximate Exploratory Boring Location (Others)
- 5' — Overburden Thickness
- 63 — % Fines (Silt & Clay) in Overburden
- A — A' — Approximate Cross-Section Location (See Figure 3)

0 800
Scale in Feet

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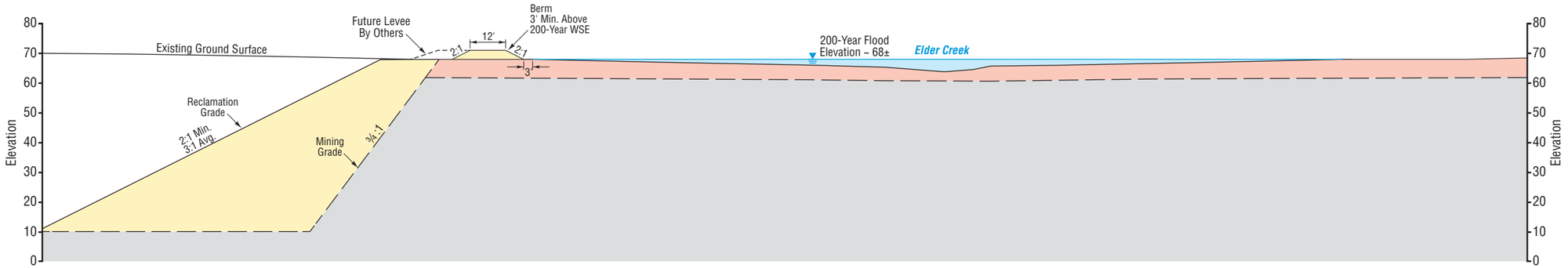
Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

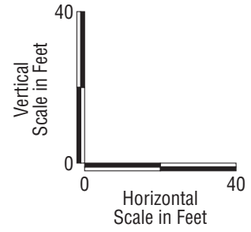
SITE PLAN

S9304-05-02	December 2014	Figure 2



LEGEND:

	EMBANKMENT/RECLAMATION FILL (Reclaimed Overburden)
LAGUNA FORMATION	OVERBURDEN – Interbedded Sandy SILT, lean CLAY, Silty/Clayey SAND
LAGUNA FORMATION	GRAVEL DEPOSITS – Clayey GRAVEL, Silty GRAVEL
WSE	Water Surface Elevation



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Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

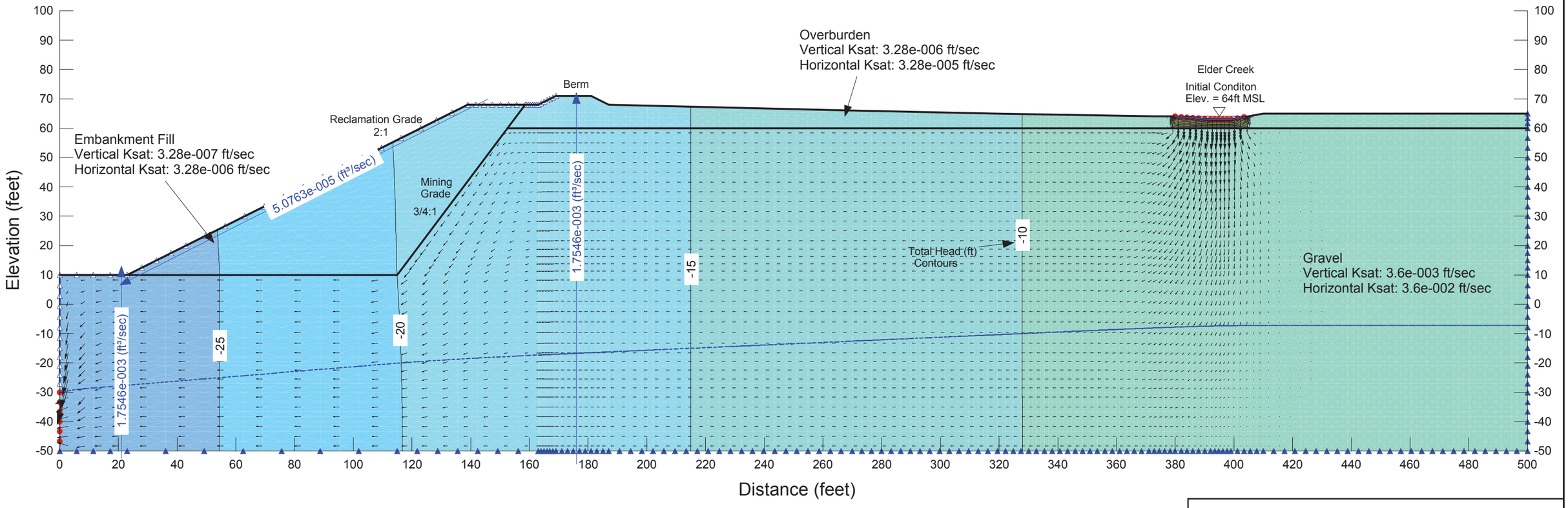
TYPICAL CROSS-SECTION

S9304-05-02	December 2014	Figure 3

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 12/11/2014
Time: 10:53:36 AM

Analysis: Low-Flow Channel
Method: Transient
Elapsed Time: 100 Years
Slip Surface Option: GridAndRadius
Horz Seismic Load: 0

Material Description & Parameters:
Description: Overburden: Hyd K Fn: 1 Vol WC Fn: 1 Ky/Kx Ratio: 0.1 Direction of Kx: 90
Description: Embankment Fill: Hyd K Fn: 2 Vol WC Fn: 2 Ky/Kx Ratio: 0.1 Direction of Kx: 90
Description: Gravels: Hyd K Fn: 3 Vol WC Fn: 3 Ky/Kx Ratio: 0.1 Direction of Kx: 90



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Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

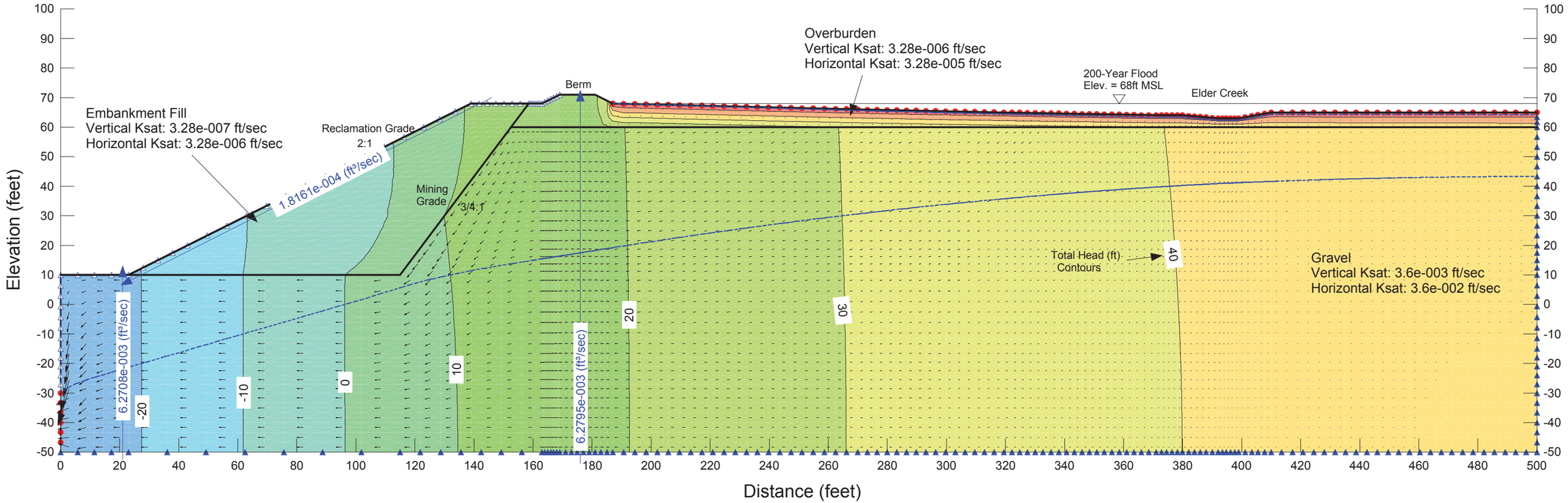
Seepage at Low Flow

S9304-05-02	December 2014	Figure 4

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 12/11/2014
Time: 10:56:10 AM

Analysis: 200-Year Flood
Method: Transient
Elapsed Time: 30 Days
Slip Surface Option: GridAndRadius
Horz Seismic Load: 0

Material Description & Parameters:
Description: Overburden: Hyd K Fn: 1 Vol WC Fn: 1 Ky/Kx Ratio: 0.1 Direction of Kx: 90
Description: Embankment Fill: Hyd K Fn: 2 Vol WC Fn: 2 Ky/Kx Ratio: 0.1 Direction of Kx: 90
Description: Gravels: Hyd K Fn: 3 Vol WC Fn: 3 Ky/Kx Ratio: 0.1 Direction of Kx: 90



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Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

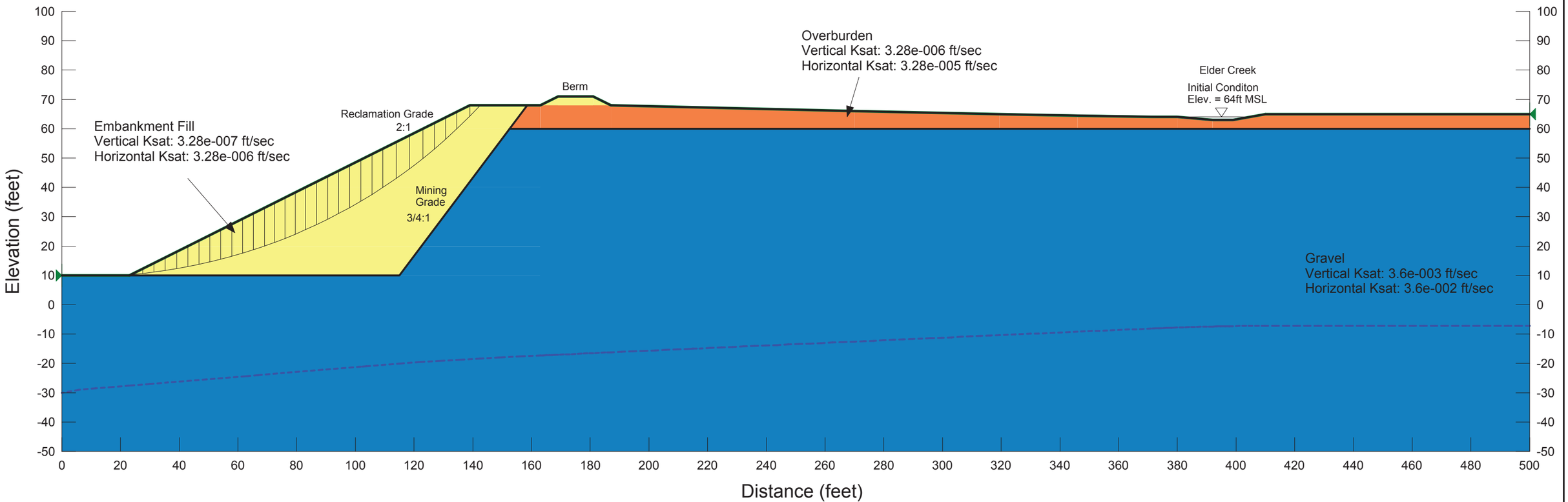
Seepage at 200-Year Flood

S9304-05-02	December 2014	Figure 5

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 12/11/2014
Time: 10:20:32 AM

Analysis: Low-Flow Channel
Method: Spencer
Elapsed Time: 100 Years
Slip Surface Option: GridAndRadius
Horz Seismic Load: 0

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 150 Phi: 30
Description: Embankment Fill: Wt: 120 Cohesion: 100 Phi: 34
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 40



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Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

Static Slope Stability at Low-Flow

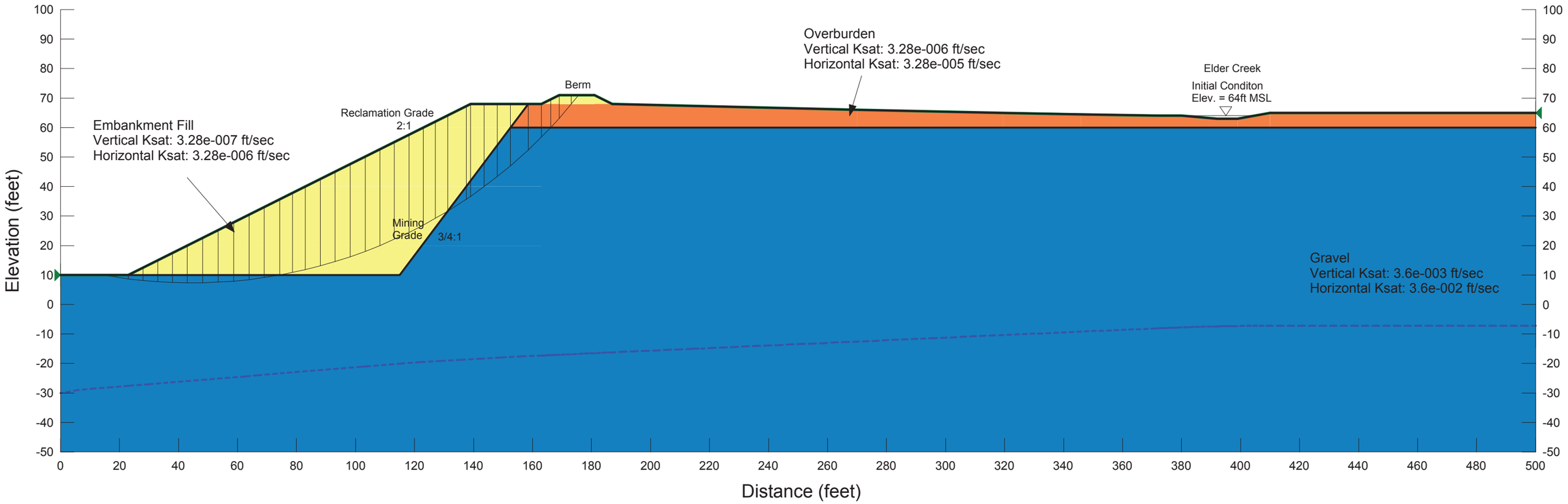
S9304-05-02	December 2014	Figure 6

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 12/11/2014
Time: 10:30:35 AM

1.50

Analysis: Low-Flow Channel
Method: Spencer
Elapsed Time: 100 Years
Slip Surface Option: GridAndRadius
Horz Seismic Load: 6.e-002

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 200 Phi: 28
Description: Embankment Fill: Wt: 120 Cohesion: 800 Phi: 20
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 32



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Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

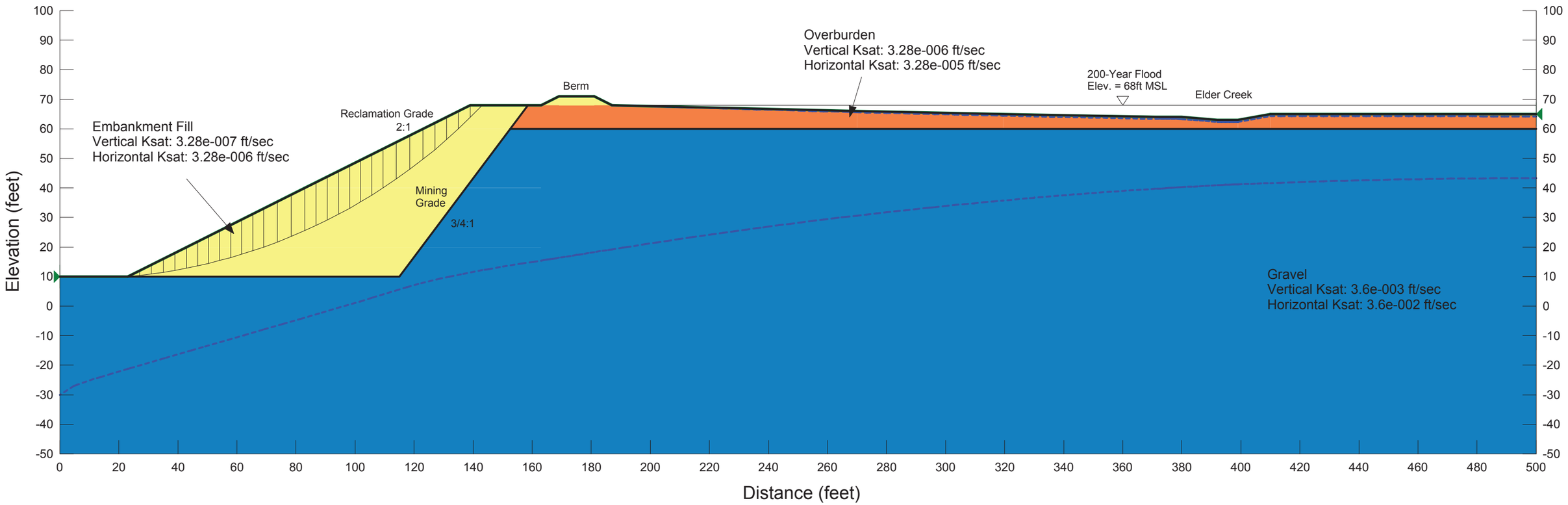
Seismic Slope Stability at Low-Flow

S9304-05-02	December 2014	Figure 7

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 12/11/2014
Time: 10:33:27 AM

Analysis: 200-Year Flood
Method: Spencer
Elapsed Time: 30 Days
Slip Surface Option: GridAndRadius
Horz Seismic Load: 0

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 150 Phi: 30
Description: Embankment Fill: Wt: 120 Cohesion: 100 Phi: 34
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 40



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Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

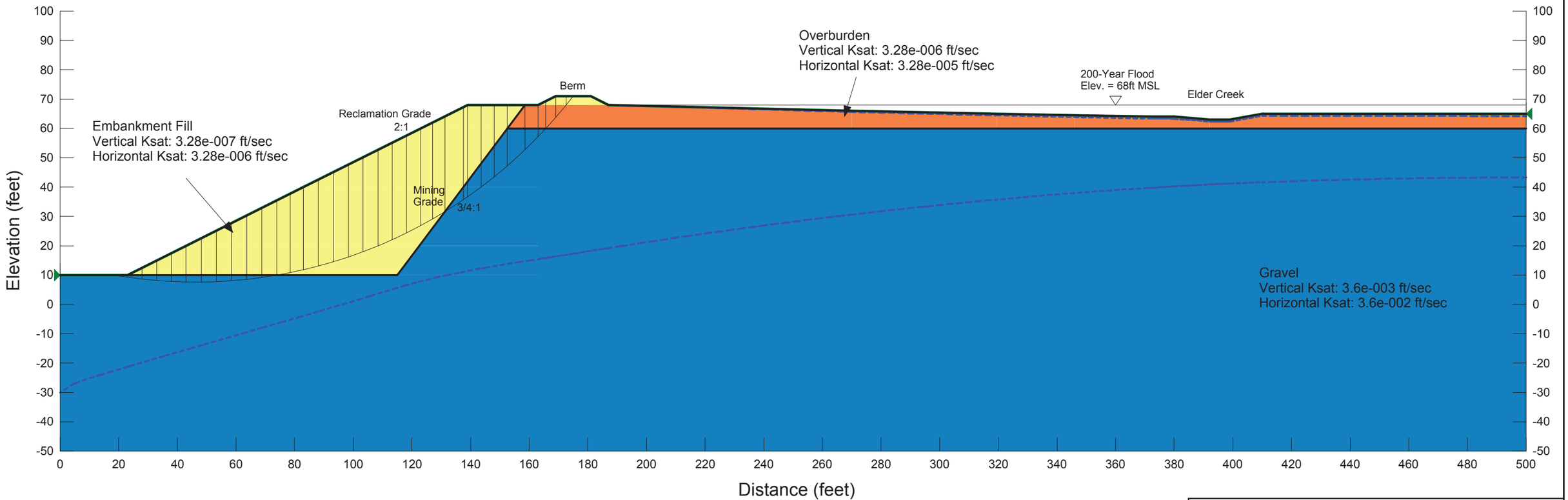
Static Slope Stability at 200-Year Flood

S9304-05-02	December 2014	Figure 8

Project Name: Aspen 8 & 9
Project No.: S9304-05-02
Date: 12/11/2014
Time: 10:49:20 AM

Analysis: 200-Year Flood
Method: Spencer
Elapsed Time: 30 Days
Slip Surface Option: GridAndRadius
Horz Seismic Load: 6.e-002

Material Description & Parameters:
Description: Overburden: Wt: 120 Cohesion: 200 Phi: 28
Description: Embankment Fill: Wt: 120 Cohesion: 800 Phi: 20
Description: Gravels: Wt: 135 Cohesion: 50 Phi: 32



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Aspen VIII & IX

Elder Creek Road,
Sacramento County, California

Seismic Slope Stability at 200-Year Flood

S9304-05-02	December 2014	Figure 9

APPENDIX G

DRAINAGE SUMMARY

To: Nick Cronenwett, Teichert

From: Steve Greenfield, Cunningham Engineering

Date: March 8, 2024

Subject: Drainage Summary
Proposed Aspen VIII and IX Expansion Areas, Sacramento County

Introduction: This memorandum has been prepared to summarize the drainage impacts of the proposed Aspen VIII & IX Expansion Areas. A hydraulic analysis was prepared for Elder Creek with the original Aspen VIII & IX Mining and Reclamation Plans (approved by Sacramento County DWR on January 14, 2016, and updated August 12, 2016). The expansion areas are proposed to be hydraulically isolated from the creek and therefore, are not anticipated to have any negative impacts on Elder Creek.

Aspen VIII Expansion: The Aspen VIII Expansion Area currently receives offsite stormwater runoff via three existing 24" culverts located at the northeast corner of the site. Runoff from the culverts flow across the site and eventually surface flow into the former Aspen V South mining pit.

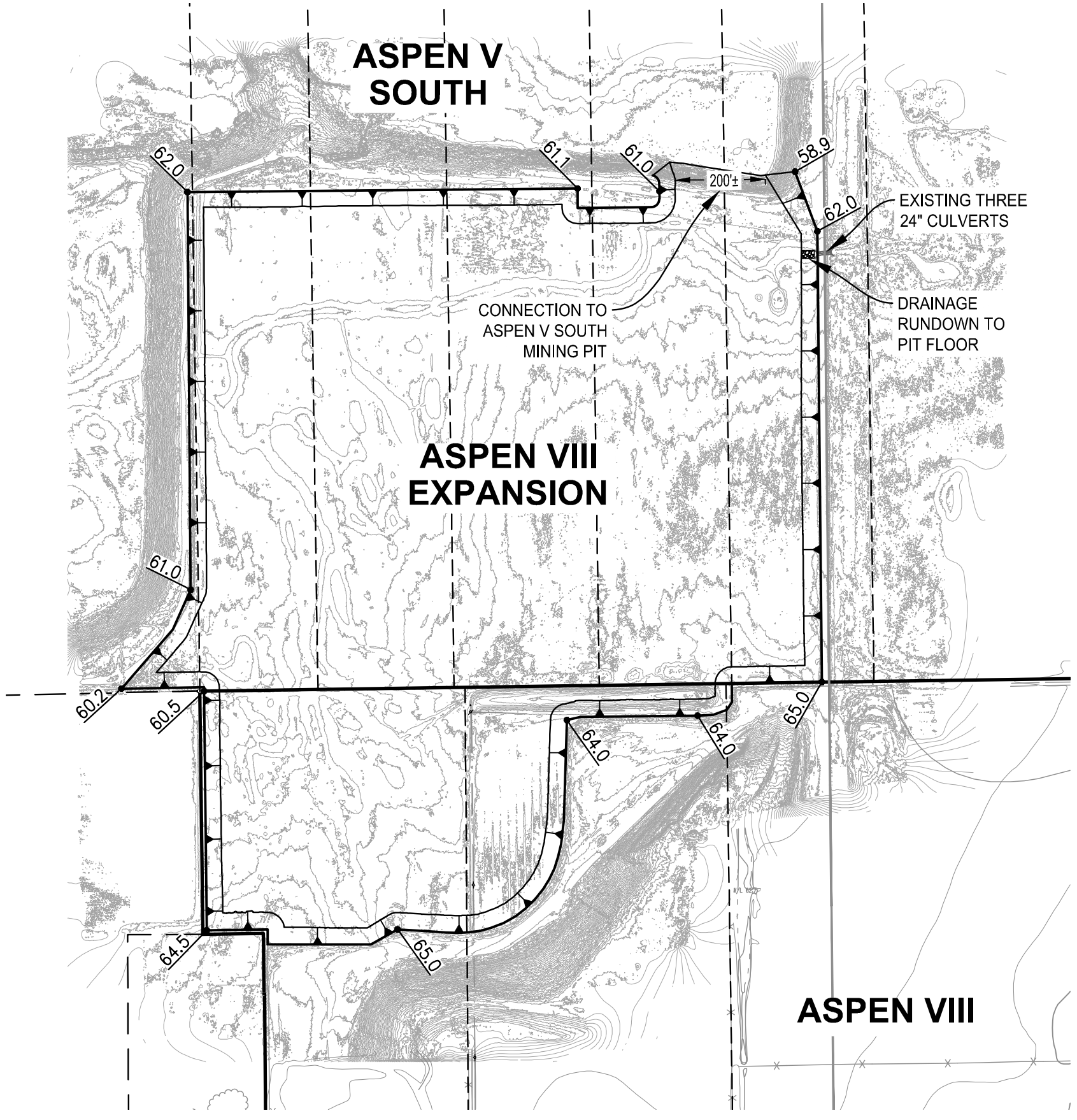
As previously discussed with DWR in a meeting on December 7, 2023, with a follow up discussion on January 29, 2024, the project proposes to direct the water from the existing culverts via a riprap or piped rundown to the Aspen VIII pit floor. The runoff will then be directed into the Aspen V South pit via an approximate 200' wide opening, thereby maintaining the existing drainage condition.

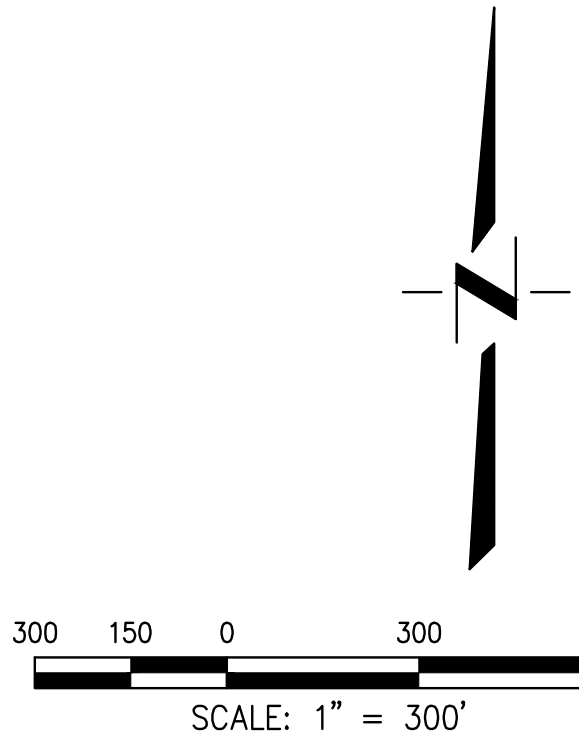
Along the southern portion of the Aspen VIII Expansion Area a strip of land set to a minimum elevation of 64' remains, keeping the area hydraulically disconnected from the Aspen VIII mining pit. Maintaining a minimum elevation of 64 will provide a minimum of 2' of freeboard from the previously calculated 100yr Elder Creek Water Surface Elevation of 62'.

See attached exhibit.

Aspen IX Expansion: Runoff from the Aspen IX Expansion will be managed with two stormwater retention ponds located within the mining pit. Footprints shown on the Mining and Reclamation plans are based on approximately 10' deep ponds sized using an annual water balance to retain the mean annual precipitation plus a single 100yr-10day storm event.

Offsite runoff to the Aspen IX Expansion Area is limited to minor incidental drainage from adjacent properties to the south and east. A berm will be constructed adjacent to Elder Creek to keep the expansion area hydraulically disconnected from the creek and provide a minimum of 3' of freeboard.





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(916) 455-2026

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CUNNINGHAM · ENGINEERING

ASPEN VIII & IX EXPANSION AREAS
DRAINAGE EXHIBIT

CALIFORNIA

SACRAMENTO COUNTY

DESIGNED	
DRAWN	NC
CHECKED	
SCALE	1" = 300'
SHEET	1 OF 1
DATE:	03/08/24
JOB No:	1390.17

S:\Projects\1300\1390 Aspen VIII & IX Mining & Reclamation Plans\AutoCAD\1390-17 ASPEN IX SOUTH MINE AND REC PLANS\EXHIBITS\Drainage Summary Exhibit\1390-17-A8 Exp Drainage Exhibit.dwg - EXHIBIT 3/10/2024 - 7:34PM Plotted by: Niki

APPENDIX H

ENVIRONMENTAL NOISE AND VIBRATION ASSESSMENT

Environmental Noise & Vibration Assessment

Teichert Aspen VIII & IX Amendment

Sacramento County, California

BAC Job # 2023-103

Prepared For:

Teichert, Inc.

Nick Cronenwett, Project Manager
3500 American River Drive
Sacramento, CA 95746

Prepared By:

Bollard Acoustical Consultants, Inc.

Paul Bollard, President

August 11, 2025

BOLLARD
Acoustical Consultants

Introduction & Project Description

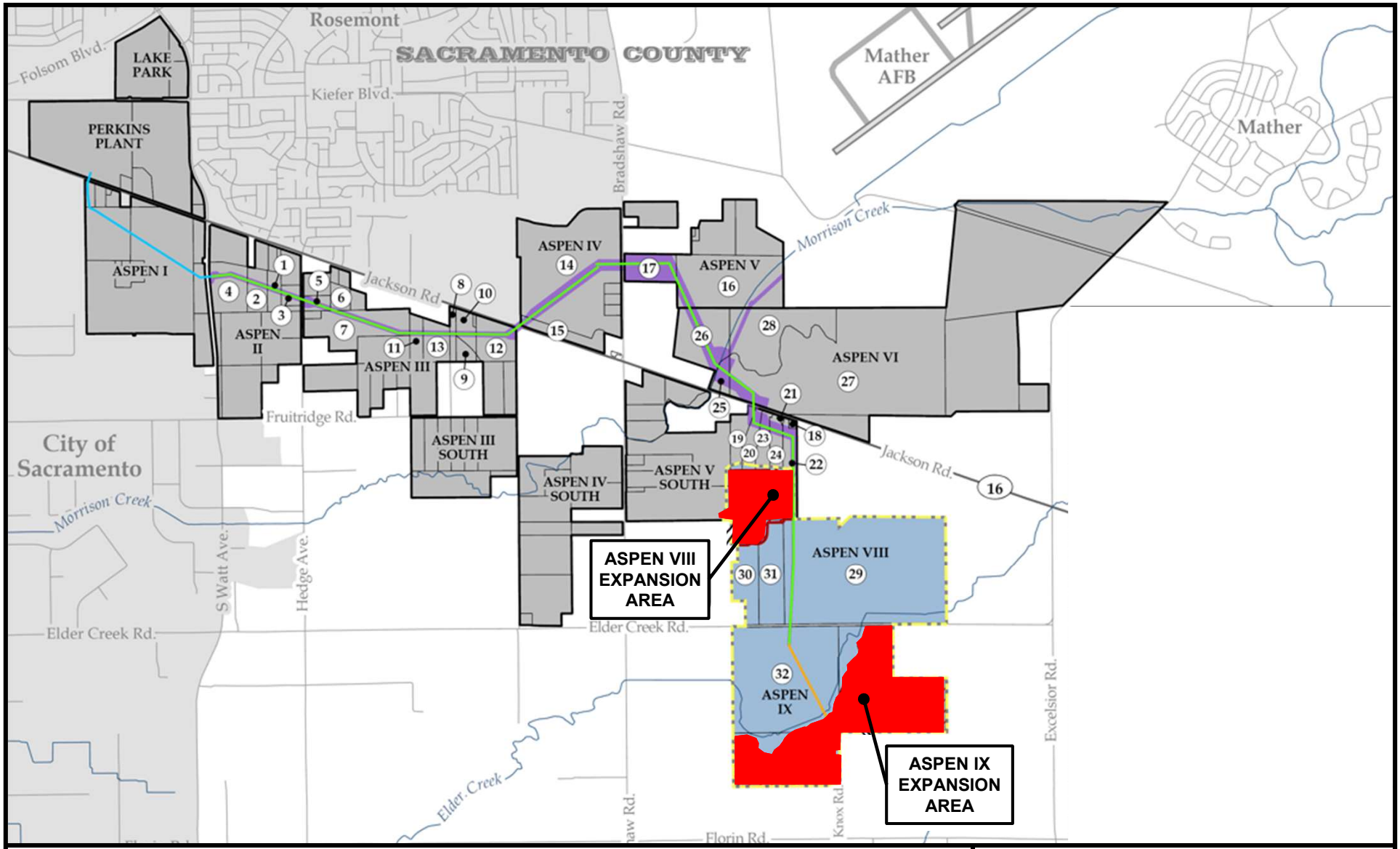
Teichert Aggregates (Teichert) is proposing an expansion of existing surface mining operations at its existing Aspen VIII & IX mining site located in unincorporated Sacramento County along Elder Creek Road. Figure 1 shows the project study areas. The project is titled "Aspen VIII & IX Amendment".

Bollard Acoustical Consultants, Inc. (BAC) previously prepared the noise analysis for the previously approved Aspen VIII and Aspen IX project (BAC Job # 2014-166). As shown in Figure 1, Aspen VIII is located between the two proposed project areas. The existing entitlement allows for surface mining on approximately 353 acres of a 683-acre project site. The proposed amendment (project) would add 63.26 acres of surface mining operations for sand and gravel near the northwest corner of Aspen VIII and add 182 acres to Aspen IX of Elder Creek thereby expanding the total mine area by 246 acres. Mining equipment would primarily include front-loaders; but self-elevating scrapers, excavators, motor graders, and water trucks will likely also be used at the sites periodically.

The project will also include the extension of an existing conveyor belt under Elder Creek to reach the unmined southern areas of the Aspen IX site which will allow for material to continue to be conveyed offsite rather than transported by truck. As such, the project areas will not introduce any truck traffic on the local roadway network.

The nearest existing residences to the proposed mining areas are identified in Figure 2. Due to the proximity of some existing residences to the proposed mining areas, this analysis has been prepared to evaluate anticipated noise and vibration levels of the proposed mining operation in comparison to applicable Sacramento County standards, and to recommend noise mitigation measures, where necessary, to achieve satisfaction with those standards.

This report describes fundamentals of noise, quantifies the general ambient noise environment in the proposed project site vicinity, describes the noise standards which would be applied to the project by Sacramento County in addition to applicable California Environmental Quality Act (CEQA) requirements, and provides an assessment of potential noise impacts associated with aggregate extraction at the project sites.



Legend

Project Study Areas

N

Scale (Feet)

0 2,000 4,000

Project Vicinity

Aspen VIII & IX Amendment

Sacramento County, California

Figure 1

BOLLARD Acoustical Consultants



Legend

- Project Boundary (Approximate)
- Long-Term Noise Measurement Locations
- Nearest Noise-Sensitive Receptors
- Recommended Barriers During Initial Excavation within 500 feet of Residences

N

Scale (Feet)

0 1,000 2,000

Project Area & Mitigation

Aspen VIII & IX Amendment
Sacramento County, California

Figure 2

BOLLARD Acoustical Consultants

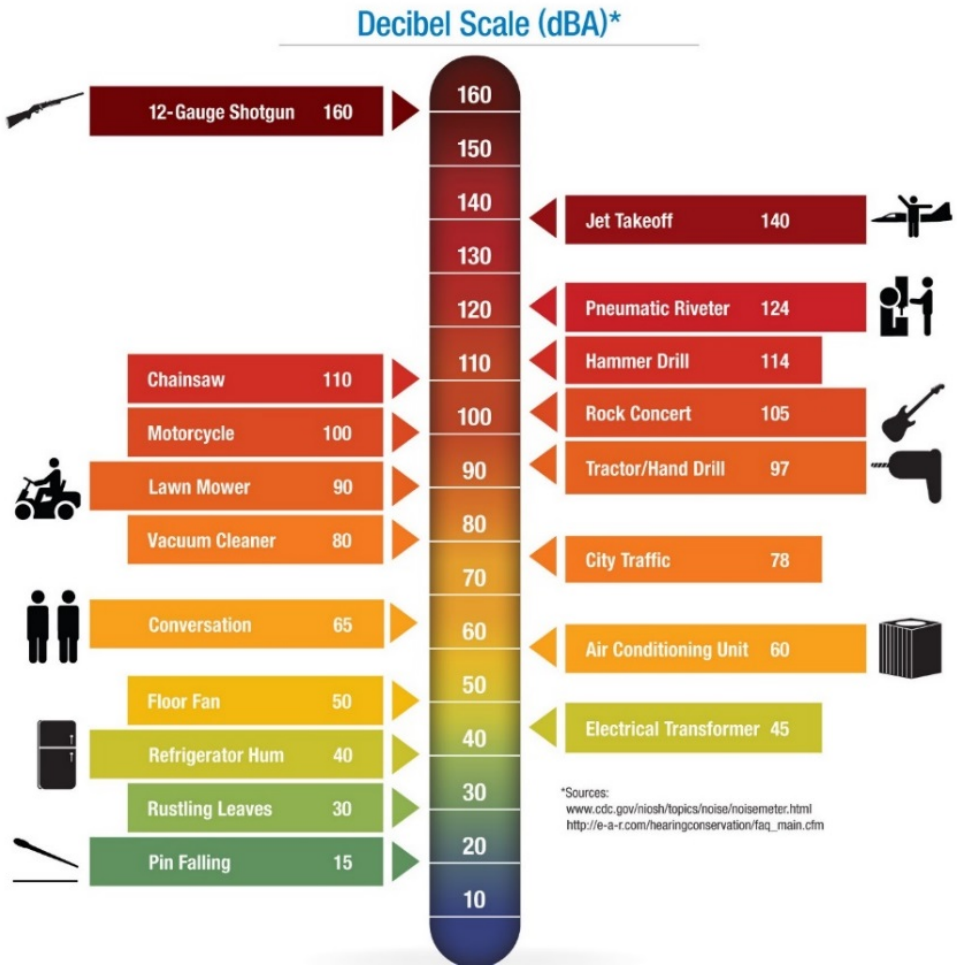
Fundamentals, Terminology & Effects of Noise

Noise/Sound

Noise is often described as unwanted sound. Sound is defined as any pressure variation in air that human hearing can detect. If the pressure variations occur frequently enough (i.e., at least 20 times per second) they can be identified as sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz). Please see Appendix A for definitions of terminology used in this report.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale utilizes the hearing threshold (20 Micropascals of pressure) as a point of reference, defined as 0 dB. Other sound pressures are then compared to the reference pressure, and the logarithm is taken to keep the numbers within a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB. Another useful aspect of the decibel scale is that changes in decibel levels correspond closely to human perception of relative loudness. Figure 3 illustrates common noise levels associated with various sources.

Figure 3
Typical A-Weighted Sound Levels of Common Noise Sources



The perceived loudness of sound is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by weighting the frequency response of a sound level meter by means of the standardized A-weighting network. There is a strong correlation between A-weighted sound levels (expressed as dBA) and community response to noise. All noise levels reported in this section are A-weighted.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given noise environment. A common statistical tool to measure the ambient noise level is the average, or equivalent, sound level (L_{eq}) over a given time period (usually one hour). The L_{eq} is the foundation of the Day-Night Average Level noise descriptor, L_{dn}, and shows very good correlation with community response to noise.

The Day-Night Average Level (L_{dn}) is based upon the average noise level over a 24-hour day, with a +10 dB weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment. L_{dn} based noise standards are commonly used to assess noise impacts associated with traffic, railroad and aircraft noise sources.

Noise Attenuation with Distance

Stationary “point” sources of noise, attenuate (lessen) at a rate of approximately 6 dBA per doubling of distance from the source, not accounting for environmental conditions (i.e., atmospheric conditions, noise barriers, ground type, vegetation, topography, etc.). Surface traffic (a “moving point” source), would typically attenuate at a lower rate, approximately 4.5 dBA per doubling distance from the source (also dependent upon environmental conditions).

Noise from aggregate excavation sites (with both mobile and stationary equipment), would have characteristics of both “point” and “moving point” sources, so attenuation would generally range between 4.5 and 6 dBA per doubling of distance from such areas.

Atmospheric (Molecular) Absorption and Anomalous Excess Attenuation

Air absorbs sound energy. The amount of absorption is dependent on the temperature and humidity of the air, as well as the frequency of the sound. Families of curves have been developed which relate these variables to molecular absorption coefficients, frequently expressed in terms of dB per thousand feet. For standard day atmospheric conditions, defined as 59 degrees Fahrenheit and 70% relative humidity, the molecular absorption coefficient at 1000 hertz is 1.5 dB per thousand feet. Molecular absorption is greater at higher frequencies, and reduced at lower frequencies. In addition, for drier conditions, the molecular absorption coefficients generally increase. Similarly, as temperature increases, molecular absorption coefficients typically increase as well.

Anomalous excess attenuation caused by variations in wind speed, wind direction, and thermal gradients in the air can typically be estimated using an attenuation rate of 1.5 dB per thousand feet for a noise source generating a 1000 hertz signal. As with molecular absorption, anomalous excess attenuation typically decreases with lower frequencies and increases with higher frequencies.

Effects of Shielding

A noise barrier is any impediment which intercepts the path of sound as it travels from source to receiver. Such impediments can be natural, such as a hill or other naturally occurring topographic feature which blocks the receiver's view of the source. Impediments can also be vegetative, such as heavy tree cover which similarly blocks the source from view of the receiver. In addition, impediments can be man-made, such as a solid wall, earthen berm, or structure constructed between the noise source and receiver. Regardless of the type of impediment, the physical properties of sound are such that, at the point where the line-of-sight between the source and receiver is interrupted by a barrier, a 5 dB reduction in sound typically occurs.

The effectiveness of a barrier is a function of the difference in distance sound travels on a straight-line path from source to receiver versus the distance it must travel from source to barrier, then barrier to receiver. A barrier's effectiveness is a function of the path length difference Fresnel number and frequency content of the source.

Effects of Noise on People

The effects of noise on people can be divided into three categories: 1) Subjective effects of annoyance, nuisance, dissatisfaction, 2) Interference with activities such as speech, sleep, and learning; and 3) Physiological effects such as hearing loss or sudden startling.

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the third category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists, and different tolerances to noise tend to develop based on an individual's past experiences with noise.

An important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment (or ambient noise) to which one has adapted. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it. With regard to increases in A-weighted noise level, the following relationships occur (Caltrans, 2013):

- It is widely accepted that the average healthy ear can barely perceive noise level changes of 3 dBA;
- A change in level of 5 dBA is a readily perceptible increase in noise level; and
- A 10-dBA change is recognized as twice as loud as the original source.

These relationships occur in part because of the logarithmic nature of sound and the decibel system. Noise levels are measured on a logarithmic scale, instead of a linear scale. On a logarithmic scale, the sum of two noise sources of equal loudness is 3 dBA greater than the noise generated by only one of the noise sources (e.g., a noise source of 60 dBA plus another noise source of 60 dBA generate a composite noise level of 63 dBA). To apply this formula to a specific noise source, in areas where existing levels are dominated by traffic, a doubling in traffic volume will increase ambient noise levels by 3 dBA. Similarly, a doubling in heavy equipment use, such as the use of two pieces of equipment where one formerly was used, would also increase ambient noise levels by 3 dBA.

Audibility

It should be noted that audibility of sound can vary substantially from one person to another based on individual hearing acuity. As a result, audibility is not used as a test of significance according to the California Environmental Quality Act (CEQA). CEQA requires a substantial increase in noise levels before noise impacts are identified, not simply an audible change. A discussion of what constitutes a substantial change in noise environments is provided in the Criteria section of this report.

Vibration Fundamentals and Terminology

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that noise is generally considered to be pressure waves transmitted through air, while vibration is usually associated with transmission through the ground or structures. As with noise, vibration consists of an amplitude and frequency. A person's response to vibration will depend on their individual sensitivity as well as the amplitude and frequency of the source.

Vibration can be described in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration in terms of velocity in inches per second peak particle velocity (IPS, PPV) or root-mean-square (VdB, RMS). Standards pertaining to perception as well as damage to structures have been developed for vibration in terms of peak particle velocity as well as RMS velocities.

As vibrations travel outward from the source, they excite the particles of rock and soil through which they pass and cause them to oscillate. Differences in subsurface geologic conditions and distance from the source of vibration will result in different vibration levels characterized by different frequencies and intensities. In all cases, vibration amplitudes will decrease with increasing distance. The maximum rate, or velocity of particle movement, is the commonly accepted descriptor of the vibration "strength".

Human response to vibration is subjective and can, therefore, be difficult to quantify. Vibration can be felt or heard well below the levels that produce any damage to structures. The duration of the event has an effect on human response, as does frequency. Generally, as the duration and vibration frequency increase, the potential for adverse human response increases.

According to the Transit Noise and Vibration Impact Assessment Manual, (Federal Transit Administration, 2018), operation of construction equipment and construction techniques generate ground vibration. At high enough amplitudes, ground vibration has the potential to damage structures and/or cause cosmetic damage. Ground vibration can also be a source of annoyance to individuals who live or work close to vibration-generating activities.

Existing Ambient Noise Environment within the Project Vicinity

The nearest identified noise-sensitive land uses to the proposed project consist of residences on the north and south sides of Elder Creek Road, and residences to the north of Florin Road. These receptors are identified as R1-R5 on Figure 2. The existing ambient noise environment at these residences is primarily defined by traffic on Elder Creek Road and Florin Road.

To quantify the existing ambient noise level environment at these noise-sensitive receptors, BAC conducted a long-term (5-day) noise level survey from Thursday, September 14 to Monday, September 18, 2023 at sites LT-1 and LT-2 shown on Figure 2. The long-term noise measurement site LT-1 is representative of ambient conditions nearest to Aspen V South. Site LT-2 is representative of ambient conditions nearest to Aspen IX South and Florin Road. Photographs of the noise survey locations are provided in Appendix B.

In addition to the noise surveys conducted at Sites LT-1 and LT-2, BAC utilized ambient noise survey data previously collected for the original Aspen VIII & IX noise analysis prepared in 2007 to represent ambient conditions at receivers located near Elder Creek Road (Receptors R1 – R3). That noise monitoring location is shown on Figure 2 as LT-3. Because that noise monitoring data was collected years ago when traffic volumes on Elder Creek Road were likely lower than current conditions, it is similarly likely that current ambient noise conditions are greater than conditions present when the noise survey at this location was originally conducted.

Larson-Davis Laboratories (LDL) Model 820 precision integrating sound level meters were used to complete the ambient noise level survey. The meters were calibrated immediately before and after use with an LDL Model CAL200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

The long-term ambient noise level survey results are summarized in Table 1. The detailed results of the ambient noise survey are contained in Appendix C in tabular format and graphically in Appendix D.

Table 1
Summary of Long-Term Noise Survey Measurement Results[1]

				Average Hourly Noise Levels [dBA]			
				Daytime[3]		Nighttime[4]	
Site[2]	Description	Date	DNL [dBA]	L50	Lmax	L50	Lmax
LT-1	Aspen VIII Expansion, south boundary	9/14/2023	54	43	64	45	57
		9/15/2023	53	44	62	44	57
		9/16/2023	50	43	60	42	54
		9/17/2023	48	43	64	39	52
		9/18/2023	53	44	64	42	52
		Average	**52**	**43**	**63**	**42**	**55**
LT-2	Aspen IX South, south boundary	9/14/2023	53	42	73	43	63
		9/15/2023	52	42	66	43	61
		9/16/2023	55	43	72	42	61
		9/17/2023	50	43	64	41	57
		9/18/2023	53	43	71	43	61
		Average	**53**	**42**	**69**	**42**	**61**
LT-3	800 feet south of Elder Creek Road near R3	**11/1/2007**	**57**	**45**	**74**	**41**	**66**

Notes
1. Detailed summaries of the noise monitoring results are provided in Appendices C and D.
2. Long-term noise survey location is identified on Figure 1.
3. Daytime hours: 7:00 a.m. to 10:00 p.m.
4. Nighttime hours: 10:00 p.m. to 7:00 a.m.

Source: Bollard Acoustical Consultants, Inc. (2007 & 2023)

The data measured at site LT-1 is representative of existing ambient conditions at receptor R5 and site LT-2 is representative of existing ambient conditions at receptor R4. Table 1 indicates that the measured median noise levels (L50) at both sites averaged approximately 42 dB for both daytime and nighttime hours. The measured maximum (Lmax) noise levels averaged 63 dB daytime and 55 dB nighttime at Site LT-2 and 69 dB daytime and 61 dB nighttime. These measured levels are consistent with rural residential environments which are somewhat removed from local traffic noise sources.

Receptors R1, R2 and R3 are located in relatively close proximity to Elder Creek Road. As a result, ambient conditions are expected to be greater at those locations than at receivers R4 and R5. The ambient noise level data previously collected by BAC near receptor R3 for the original Aspen VIII & IX noise analysis indicate that ambient conditions at Site LT-3 were incrementally higher than at Sites LT-1 and LT-2. As indicated on Figure 3, monitoring site LT-3 was located approximately 800 feet from Elder Creek Road, and is representative of ambient conditions at receptor R3. Because receptors R1 and R2 are located approximately 180 feet from Elder Creek Road, existing ambient conditions at those receptors are expected to be approximately 10 dBA higher than at R3 (based on a standard 4.5 dB increase in noise levels for each halving of distance to the traffic noise source). Specifically, baseline daytime ambient conditions at receptors R1 and R2 are expected to be approximately 55 dBA L50, with maximum noise levels of at least 75 dBA Lmax.

Existing Ambient Vibration Environment

During BAC field visits to the project site, no ambient vibration was discernible. The only visible sources of ground vibration were local surface traffic and distant mining operations, but vibration from tires rolling on pavement is non-impulsive and dissipates rapidly. As a result, the baseline ambient vibration environment is considered to be negligible at the nearest sensitive receptors to the proposed project.

Criteria for Acceptable Noise Exposure

California Environmental Quality Act (CEQA) Standards

The State of California has established regulatory criteria that are applicable to this assessment. Specifically, Appendix G of the CEQA Guidelines are used to assess the potential significance of impacts pursuant to local General Plan policies, County Code standards, or the applicable standards of other agencies. According to the CEQA guidelines, the project would result in a significant noise or vibration impact if the following occur:

A. Generation of 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 in other applicable standards of other agencies?

B. Generation of 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 two 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?

As noted in CEQA Criteria “A” above, a project’s noise impacts must be evaluated relative to both the ***increase*** in noise levels which would result from the project as well as compliance with standards established in the local general plan or noise ordinance.

Sacramento County General Plan

The Sacramento County General Plan was adopted in December 15, 1993 (amended in December 13, 2017) and serves as the overall guiding policy document for land use, development, and environmental quality for the County. The Sacramento County Noise Element of the General Plan contains noise standards for transportation as well as non-transportation or “stationary” noise sources. The General Plan policies which would be most applicable to this project are reproduced below.

NO-6 Where a project would consist of or include non-transportation noise sources, the noise generation of those sources shall be mitigated so as not to exceed the interior and exterior noise level standards of Table 2 at existing noise-sensitive areas in the project vicinity.

NO-8 Noise associated with construction activities shall adhere to the County Code requirements. Specifically, Section 6.68.090(e) addresses construction noise within the County.

Table 2
Non-Transportation Noise Standards
Sacramento County Noise Element

	Median (L50) / Maximum (Lmax)[1]		
	Outdoor Area[2]		Interior[3]
Land Use	Daytime	Nighttime	Day & Night
All Residential	55 / 75	50 / 70	35 / 55
Transient lodging[4]	55 / 75	--	35 / 55
Hospitals, nursing homes[5,6]	55 / 75	--	35 / 55
Theaters, auditoriums, music halls[6]	--	--	30 / 50
Churches, meeting halls[6]	55 / 75	--	35 / 60
Office buildings[6]	60 / 75	--	45 / 65
Commercial Buildings[6]	--	--	45 / 65
Playgrounds, neighborhood parks[6]	65 / 75	--	--
Industry[6]	60 / 80	--	50 / 70

Notes:

1. The Table 2 standards shall be reduced by 5 dB for sounds consisting primarily of speech or music, and for recurring impulsive sounds. If the existing ambient noise level exceeds the standards of Table 2, then the noise level standards shall be increased at 5 dB increments to encompass the ambient.
2. Sensitive areas are defined in the acoustic terminology section of the Noise Element.
3. Interior noise level standards are applied within noise-sensitive areas of the various land uses, with windows and doors in the closed positions.
4. Outdoor activity areas of transient lodging facilities are not commonly used during nighttime hours.
5. Hospitals are often noise-generating uses. The exterior noise level standards for hospitals are applicable only at clearly identified areas designated for outdoor relaxation by either hospital staff or patients.
6. The outdoor activity areas of these uses (if any), are not typically utilized during nighttime hours.
7. Where median (L50) noise level data is not available for a particular noise source, average (Leq) values may be substituted for the standards of this table provided the noise source in question operates for at least 30 minutes of an hour. If the source in question operates less than 30 minutes per hour, then the maximum noise level standards shown would apply.

Source: Sacramento County General Plan Noise Element, Table 2.

Sacramento County Noise Ordinance

Chapter 6.68 of the Sacramento County Code pertains to noise control. A summary of the County Noise Ordinance Standards is provided in Table 3. The standards are consistent with those found in the Sacramento County General Plan Noise Element, Table 2 (Table 2 in this report).

Table 3
Noise Level Standards for Residential Uses Affected by Non-Transportation Noise

Statistical Descriptor	Daytime (7 am to 10pm)	Nighttime (10 pm - 7 am)
L_{50}	55 dBA	50 dBA
L_{max}	75 dBA	70 dBA

Notes

1. If the ambient noise level exceeds the permitted L_{50} value shown above, the allowable noise limit shall be increased in five dBA increments to encompass the ambient noise level. If measured ambient noise levels exceed the permitted L_{max} values, the maximum ambient noise level shall be the noise limit for that category.

Source: Chapter 6.68 of the Sacramento County Code

Sacramento County Zoning Code

The Sacramento County Zoning Code, Section 4.8, contains regulations and standards for aggregate mining operations. The specific sections that pertain to noise generation of the project are reproduced below:

4.8.11.F **Noise Data**. The application must include a plan indicating the anticipated noise contour levels on the mining site and adjacent properties along with the measures proposed to control the noise. When mining, processing, and related activities are planned to occur within 500 feet of a habitable structure and/or potentially incompatible use, the mining operator shall provide to the County a noise monitoring program prepared by a qualified acoustical consultant (chosen from a list provided by Planning and Environmental Review). The study area radius of the noise monitoring program shall be increased to 1,000 feet if habitable structures and/or potentially incompatible uses are on land with either Agricultural or Agricultural-Residential zoning. The program will be used to evaluate the effectiveness of mitigation measures in reducing noise levels to comply with applicable noise ordinances. A qualified consultant shall test noise levels during the removal of overburden, the extraction of aggregates and the backfill of overburden as they occur at abutting residential boundaries. The owners of habitable structures and/or potentially incompatible uses included in the study area shall be notified when testing is to occur. Further testing may not be required if the consultant determines the mitigation measures are successful in achieving the required noise reduction. If testing indicates that noise standards are exceeded, the testing results shall be reported to the County and additional mitigation measures will be required.

4.8.12.A **Operating Hours.** Unless otherwise provided as a condition of use permit the hours of operation of mining, processing, maintenance, and related activities shall be as set forth in Sections 4.8.12.A.1 and 4.8.12.A.2.

4.8.12.A.1 When mining, processing, and related activities occur within 1,000 feet of a habitable structure and/or potentially incompatible use on land zoned Agricultural or Agricultural-Residential, or within 500 feet from a habitable structure and/or potentially incompatible uses in all other zones, or are otherwise provided as a condition of use permit, then the hours of operation of mining, processing and related activities, including haul out, shall be:

a. Monday through Friday, inclusive: 6:00 a.m. until 9:00 p.m.; maintenance operations beyond mining hours to occur from 9:00 p.m. to midnight

b. Saturday: 7:00 a.m. through 3:00 p.m.; maintenance operations beyond mining hours to occur from 3:00 p.m. to 4:00 p.m.

c. Sunday and any Federal/State holidays: no mining, processing, hauling or maintenance permitted.

4.8.12.A.2 For all parcels not subject to Section 4.8.12.A.1, the hours of operation of mining, processing, maintenance, and related activities, including haul out, shall be:

a. Monday through Friday, inclusive: 6:00 a.m. until 10:00 p.m.; maintenance operations beyond mining hours to occur from 10:00 p.m. to 6:00 a.m.

b. Saturday: 6:00 a.m. through 3:00 p.m.; maintenance operations beyond mining hours to occur from 3:00 p.m. to 10:00 p.m.

c. Sunday and any Federal/State holidays: no mining, processing, hauling or maintenance permitted.

4.8.12.E **Noise.** Unless otherwise provided by ordinance, the sound level created by the mining use at the boundary line of the authorized mining area shall not exceed 70 dBA except along a boundary contiguous to another area authorized to mine for sand or aggregates. A violation of the noise standard will occur if the noise level at the property line exceeds:

1. The noise limit for a cumulative period of more than 30 minutes in any hour, or;

2. The noise limit plus 5 dBA for a cumulative period of more than one minute in any hour, or the noise limit plus 20 dBA for any period of time.

*[**BAC note:** These standards equate to 70 dB L_{50}, 75 dB L_{02}, and a 90 dB L_{max} at the property line of the mine site.]*

4.8.12.F **Mining Setbacks.** Unless otherwise provided as a condition to the use permit, mining areas shall be set back from property lines, public streets, and sewage disposal systems as follows:

1. Periphery of Mining Site. A 25-foot minimum setback from the property line is required, the first five (5) feet of which shall consist of undisturbed land.

4.8.14.A. Guidelines for Mining Sites Adjacent to Habitable Structures and/or Potentially Incompatible Uses.

4.8.14.A.5 Noise Barriers. The operators should provide noise barriers consisting of 8-foot-high earthen berms or temporary portable barriers installed and moved along property boundaries as mining progresses. The noise barriers should be maintained in place at least until sufficient pit excavation has occurred to block the line of site between nearby residences and mining activities.

Significance of Project-Related Noise Level Increases

Table 4 is based upon recommendations made in August 1992 by the Federal Interagency Committee on Noise (FICON) to provide guidance in the assessment of changes in ambient noise levels resulting from aircraft operations. Although the FICON recommendations were developed to assess aircraft noise impacts, these criteria have been applied to other sources of noise similarly described in terms of cumulative noise exposure metrics such as L_{dn}.

Table 4
Significance of Changes in Cumulative Noise Exposure

Ambient Noise Level Without Project, L_{dn}	Increase Required for Significant Impact
<60 dB	+5.0 dB or more
60-65 dB	+3.0 dB or more
>65 dB	+1.5 dB or more

Source: Federal Interagency Committee on Noise (FICON)

As noted above, CEQA identifies a significant noise impact if a project would result in a substantial increase in ambient noise levels over levels existing without the project. As a result, in cases where low ambient noise levels exist at a sensitive receptor, the application of a noise level limit which is more restrictive than the standards contained within the local Noise Ordinance or Zoning Code may be appropriate.

Summary of Noise Level Thresholds Applied to On-Site Noise Sources for this Project

Noise Thresholds Relative to Sacramento County Noise Standards

Table 5 contains a summary of the Sacramento County noise level thresholds applied to the site boundaries and nearest residences to this project site during normal (6 a.m. – 9 p.m.) operations. These thresholds are based on the Sacramento Zoning Code Section 4.8.12.E noise standards and on the Sacramento County Noise Ordinance standards contained on Table 3.

Table 5
Summary of Sacramento County Noise Standards Applicable to On-Site Noise Sources at Property Lines and Nearest Receptors[1]

Location	Applicable Noise Standard, dBA L50	Applicable Noise Standard, dBA Lmax
Property Line[3]	70	90
Residences	55	75

Notes
1. Receptor locations are shown on Figure 2
2. Pursuant to the County Zoning Code, hours of operations are limited to 6 am – 9 pm when residences are within 500 feet of proposed mining, as is the case with this project.
3. The average distance between operating excavation equipment and the nearest proposed excavation boundaries of the proposed mining would be approximately 50 feet.

Noise Thresholds Relative to Baseline Ambient Conditions

Table 6 contains a summary of the noise level thresholds applied to the nearest residences to this project site during normal (6 a.m. – 9 p.m.) operations. These thresholds are based on the measured baseline ambient noise levels in the vicinity of each of the nearest receivers. Because none of the measured ambient conditions exceeded 60 dBA DNL, the threshold for a finding of a potentially significant noise increase is 5 dBA over ambient conditions (see Table 4).

Table 6
Summary of Noise Standards Applicable to On-Site Noise Sources at Property Lines and Nearest Receptors

Location	Ambient Level, dBA L50	Ambient Level, dBA Lmax	Applied Noise Standard, dBA[5] L50	Applied Noise Standard, dBA[5] Lmax
R1	55[4]	75[4]	60	80
R2	55[4]	75[4]	60	80
R3	45	74	50	79
R4	42	69	47	74
R5	43	63	48	68

Notes
1. Receptor locations are shown on Figure 2
2. Ambient conditions for receptors R1 and R2 were estimated from the ambient data collected at measurement site LT-3.
3. Because measured ambient conditions were below 60 dBA at the nearest residences, pursuant to Table 4 an increase of 5 dBA over ambient is considered a substantial increase. As a result, the applied noise standard for assessing impacts relative to baseline ambient conditions is the measured ambient levels plus 5 dBA.

Criterial for Acceptable Vibration Exposure

The California Environmental Quality Act (CEQA) contains vibration impact assessment guidelines. The Sacramento County Noise Element and Noise Ordinance do not contain criteria for acceptable vibration exposure applicable to this project. However, the Federal Transit Administration (FTA) and the California Department of Transportation (Caltrans) provide such criteria. Those criteria are discussed below.

Table 12-3 of the Federal Transit Administration (FTA) Noise and Vibration Manual, reproduced as Table 7 below, provides vibration levels at which damage to structures could occur. As shown in Table 7, a vibration level of 90 VdB is the minimum at which the onset of damage to extremely susceptible buildings could occur. As a result, this level was considered to be a conservative benchmark against which project-generated vibration levels were evaluated in this analysis.

Table 7
FTA Criteria for Assessing Vibration Damage to Structures

Building Category	Level [VdB][1]
I. Reinforced-concrete, steel or timber (no plaster)	102
II. Engineered concrete and masonry (no plaster)	98
III. Non-engineered timber and masonry buildings	94
IV. Buildings extremely susceptible to vibration damage	90

Notes
1. RMS velocity in decibels (VdB) re 1 micro-inch/second

As indicated in Table 7, vibration levels exceeding 90 VdB would be required prior to the onset of damage to buildings which are extremely susceptible. In addition to providing guidance with respect to vibration levels which would cause damage to structures, the FTA guidelines also provide criteria for assessing the potential for annoyance related to vibration. Table 8-1 of the FTA Noise and Vibration Manual, reproduced in Table 8 below, provides vibration criteria for general assessment of impacts.

Table 8
Groundborne Vibration Impact Criteria for General Assessment

Land Use Category	Impact Levels [VdB]		
	Frequent Events[a]	Occasional Events[b]	Infrequent Events[c]
Category 1: Buildings where vibration would interfere with interior ops.	65[d]	65[d]	65[d]
Category 2: Residences and buildings where people normally sleep	72	75	80
Category 3: Institutional land uses with primarily daytime uses	75	78	83

Vibration levels are measured in or near the vibration-sensitive use.

a. "Frequent Events" is defined as more than 70 vibration events of the same source per day.
b. "Occasional Events" is defined as between 30 and 70 vibration events of the same source per day.
c. "Infrequent Events" is defined as fewer than 30 vibration events of the same source per day.
d. This criterion limit is based on levels that are acceptable for most moderately-sensitive equipment such as optical microscopes. Vibration-sensitive manufacturing or research will require detailed evaluation to define the acceptable vibration levels.

Source: Federal Transit Administration, Transit Noise Impact and Vibration Assessment, May 2006.

According to Table 8, the general assessment impact level for frequent events applicable at residential uses is 72 VdB. Where vibration levels exceed this threshold, a detailed vibration assessment is recommended. Because operations would essentially occur continuously during the proposed extended hours, the FTA criteria applicable to "Frequent Events" is applied to this analysis of potential annoyance resulting from project activities.

Evaluation of Project Vibration Generation

The project would generate localized vibration in the immediate area of excavation and haul truck operations. Table 9 shows vibration levels for heavy construction equipment.

Table 9
Reference Vibration Source Levels for Construction Equipment

Equipment	Approximately Vibration at 25 feet [VdB]
Excavation	87
Source: Transit Noise and Vibration Impact Assessment Manual	

The nearest residential receptor to the project site (R1 on Figure 1) would be located approximately 245 feet or more from the proposed excavation operations. Assuming a reference vibration level of 87 VdB at a distance of 25 feet, and worst-case proximity of the excavation operations to R1, the computed vibration level at that nearest receptor would be 58 VdB (FTA Transit noise and vibration manual, page 185, equation 7-3). As excavation operations occur deeper into the pit the vibration levels associated with that excavation would decrease. A similar decrease will occur as the excavation operations progress further from this nearest receptor. Because the predicted worst-case vibration level of 58 VdB is well below the 72 VdB vibration threshold for annoyance (Table 7) at the nearest receptor to the project site, and orders of magnitude below vibration levels required for the onset of damage to structures, no vibration impacts are identified for this project.

Evaluation of Project Noise Generation

On-Site Noise Sources

On-site equipment to be used for project excavation activities includes water trucks, motor graders, bulldozers, front-end loaders, self-elevating scrapers, and electric conveyors. Table 10 shows the reference noise levels corresponding to the equipment proposed for use at the project site. These noise levels were obtained from BAC noise level measurements conducted at various similar aggregate mining locations in recent years, including several other Teichert Aspen mining sites.

Table 10
Major Noise-Producing Equipment and Anticipated Noise Emission Levels

	Approximate Noise Level at 50 feet [dBA]	
Equipment Type	Maximum, Lmax	Median, L50
Excavating Equipment: (Combinations of loaders, scrapers, dozers, graders, and water trucks)	85	70
Electric Conveyors	65	60

Note: Median noise levels represent any one-hour period and assume continuous operation of the excavation equipment.
1. The median level of 63 dB L50 is based on max (2 million ton per year) operations.

Including the 25-foot property line setback required by the County Zoning Code, the nearest residential structures to the proposed mining areas were scaled to range from 245 to 755 feet from the proposed mining areas. These distances were used to predict worst-case excavation noise levels at the nearest residences.

Based on a sound level reduction of 6 dB per each doubling of distance from the excavation noise sources (standard spherical spreading of sound from a point source), the reference noise levels reported in Table 9 were projected to the nearest residences identified on Figure 2.

Assessment of Compliance with Sacramento County Noise Standards

Table 11 shows the predicted noise exposure at the project property line and at each of the five nearest representative residential receptors evaluated in this study, the Adopted Sacramento County noise standards applied to each of the receptors, and the state of compliance with those standards.

Table 11
Predicted Noise Levels at Nearest Residences, Applicable Noise Standards, and Evaluation of Compliance with Noise Standards

		Noise Standard (day/night)		Project Noise Generation		Noise Standards Exceeded (day/night)?	
Location[1]	Distance (ft)[2]	L50	Lmax	L50	Lmax	L50	Lmax
P/L	50	70	90	70	85	No	No
R1	270	55	75	54	69	No	No
R2	730	55	75	45	60	No	No
R3	300	55	75	53	68	No	No
R4	260	55	75	54	69	No	No
R5	640	55	75	47	62	No	No

Notes:
1. See Figure 2 for receiver locations
2. Distance scaled from approximate noise center of excavation operations when occurring in proximity to existing sensitive receptors.

Source: Bollard Acoustical Consultants, Inc (2023).

The Table 11 data indicate that the project's noise generation would comply with the County's Mining Ordinance noise standards applicable at the mining site boundaries. As a result, no noise impacts are identified relative to the County's Mining Ordinance and no noise mitigation measures would be required pursuant to that Ordinance. In addition, Table 11 indicates that the County's maximum (Lmax) and median (L50) noise level standards contained within the County's Noise Element and Noise Ordinance would not be exceeded at any of the nearest residences to the proposed mining area. As a result, no noise mitigation measures would be required of this project to achieve compliance with Sacramento County noise standards.

Assessment of Impacts Relative to Baseline Ambient Noise Conditions

Table 12 shows the predicted noise exposure at each of the five nearest representative residential receptors evaluated in this study, the thresholds for a finding of a substantial increase in ambient conditions, and the state of compliance with those thresholds.

Table 12
Predicted Noise Levels at Nearest Residences, Thresholds Relative to Ambient Conditions, and Evaluation of Compliance with those Thresholds

		Ambient Noise Increase Threshold		Project Noise Generation		Ambient Noise Increase Thresholds Exceeded?	
Location[1]	Distance (ft)[2]	L50	Lmax	L50	Lmax	L50	Lmax
R1	270	60	80	54	69	No	No
R2	730	60	80	45	60	No	No
R3	300	50	79	53	68	Yes	No
R4	260	47	74	54	69	Yes	No
R5	640	48	68	47	62	No	No

Notes:
1. See Figure 2 for receiver locations
2. Distance scaled from approximate noise center of excavation operations when occurring in proximity to existing sensitive receptors.

Source: Bollard Acoustical Consultants, Inc (2023).

Baseline median ambient conditions in the vicinity of the nearest existing residences vary depending primarily on proximity to local roadways. In general, worst-case project noise generation is predicted to range from being similar to baseline ambient conditions to substantially exceeding ambient conditions (i.e. more than 5 dBA), at the nearest existing residences. Excavation in close proximity to the existing residences will occur for approximately 6 months, will be limited to the hours of 6 am to 10 pm, and project noise exposure at those residences will decrease as the excavation equipment progresses deeper into the mine site. Nonetheless, because project noise exposure is predicted to substantially exceed (i.e. more than 5 dB over ambient), baseline ambient conditions at receivers R3 and R4, this impact is considered potentially significant and noise mitigation measures would be required at those locations.

Conclusions and Recommendations

Aggregate excavation operations at the Teichert Aspen VIII and IX Amendment sites are predicted to generate noise levels in compliance with the Sacramento County Zoning Code, General Plan, and Noise Ordinance at the nearest property boundaries and at each of the nearest residences to the project site. However, project noise generation is predicted to substantially exceed baseline ambient conditions at two residences located near the project site (Receptors R3 and R4). As a result, the following noise mitigation measures would be required of this project.

1. Excavation activities occurring within 500 feet of residences (R3 & R4), shall be limited to the hours of 6 am to 9 pm until such time as excavation equipment has recessed deep enough into the pit so as to be shielded from view of the nearest residences by intervening topography (i.e. the pit edge). Once the excavation equipment is sufficiently depressed in the pit such that the excavation equipment is completely shielded from view of the nearest residences, excavation-generated noise levels would be further reduced, and it would be feasible to commence operations between the hours of 9 pm and 6 am.

2. During initial excavation activities within 500 feet of receptors R3 and R4, temporary noise barriers measuring 8 feet in height should be erected at the locations indicated on Figure 2. Temporary noise barriers, such as earthen berms constructed to a height of 8 feet, would provide the degree of noise reduction required to reduce project noise generation to levels less than 5 dBA over baseline ambient conditions. The locations of the noise barrier option are shown on Figure 2.

3. All internal combustion engines associated with either stationary or mobile equipment shall be fitted with appropriate mufflers.

This concludes our environmental noise assessment for Aspen VIII and IX Amendment project in Sacramento County, California. Please contact BAC at (530) 537-2328 or paulb@bacnoise.com with any questions or requests for additional information.

Appendix A
Acoustical Terminology

Acoustics The science of sound.

Ambient Noise The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.

Attenuation The reduction of an acoustic signal.

A-Weighting A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.

Decibel or dB Fundamental unit of sound. A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.

CNEL Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.

Frequency The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz.

IIC Impact Insulation Class (IIC): A single-number representation of a floor/ceiling partition's impact generated noise insulation performance. The field-measured version of this number is the FIIC.

L_{dn} Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.

L_{eq} Equivalent or energy-averaged sound level.

L_{max} The highest root-mean-square (RMS) sound level measured over a given period of time.

Loudness A subjective term for the sensation of the magnitude of sound.

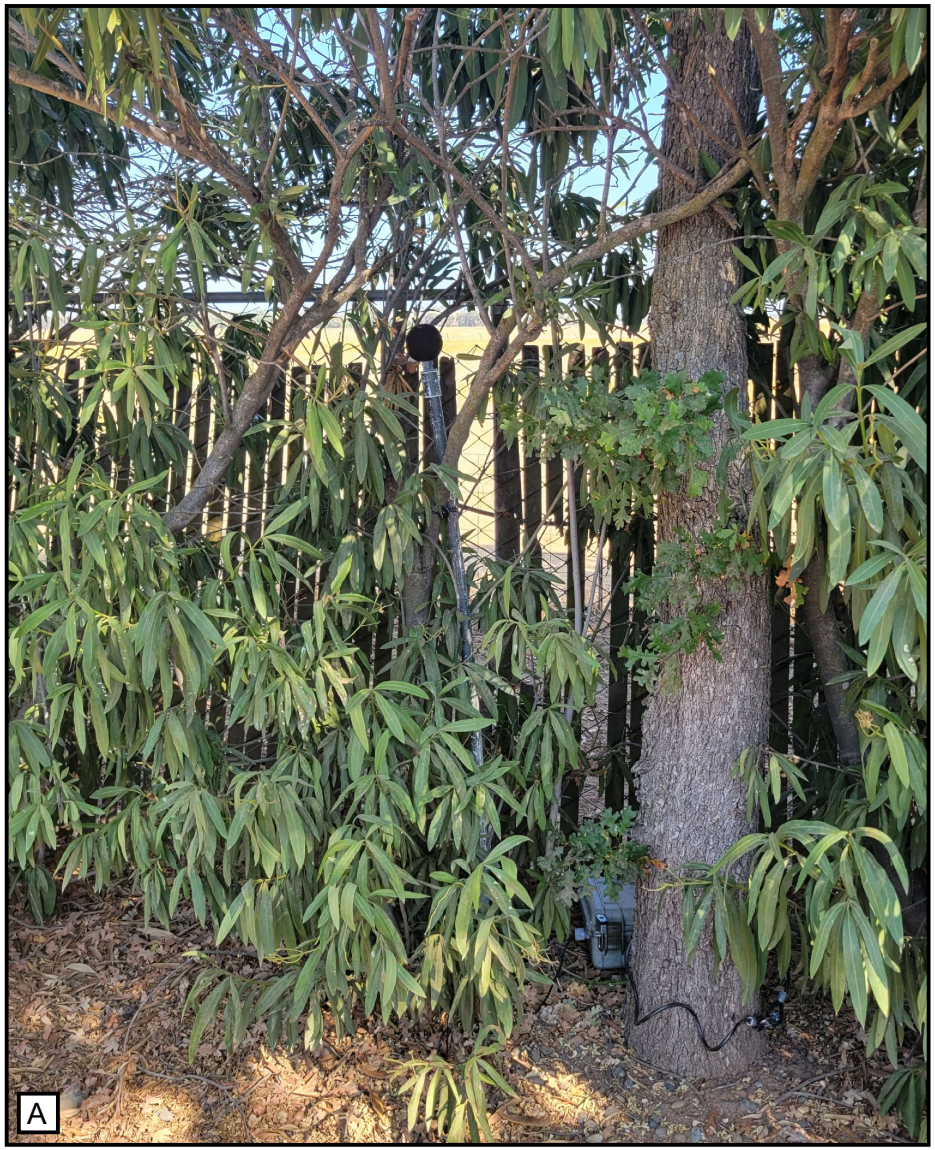
Masking The amount (or the process) by which the threshold of audibility is for one sound is raised by the presence of another (masking) sound.

Noise Unwanted sound.

Peak Noise The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the "Maximum" level, which is the highest RMS level.

RT_{60} The time it takes reverberant sound to decay by 60 dB once the source has been removed.

STC Sound Transmission Class (STC): A single-number representation of a partition's noise insulation performance. This number is based on laboratory-measured, 16-band (1/3-octave) transmission loss (TL) data of the subject partition. The field-measured version of this number is the FSTC.





Legend

A Ambient Noise Survey Site LT-1

B Ambient Noise Survey Site LT-2

Noise Survey Photographs

Aspen VIII & IX Amendment
Sacramento County, California

Appendix B

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Appendix C-1
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Thursday, September 14, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	43	54	42	39
1:00 AM	44	54	43	39
2:00 AM	43	54	41	38
3:00 AM	43	51	43	39
4:00 AM	48	55	48	45
5:00 AM	52	71	50	48
6:00 AM	52	70	51	49
7:00 AM	51	65	51	45
8:00 AM	53	75	45	43
9:00 AM	52	78	43	42
10:00 AM	45	61	43	41
11:00 AM	44	61	42	40
12:00 PM	45	70	40	37
1:00 PM	46	65	39	37
2:00 PM	44	61	41	38
3:00 PM	44	56	42	39
4:00 PM	47	67	42	39
5:00 PM	45	57	44	41
6:00 PM	46	56	46	43
7:00 PM	48	67	46	44
8:00 PM	48	67	46	44
9:00 PM	46	59	45	43
10:00 PM	44	57	44	41
11:00 PM	42	50	41	40

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	53	44	48	52	42	48
Lmax (Maximum)	78	56	64	71	50	57
L50 (Median)	51	39	43	51	41	45
L90 (Background)	45	37	41	49	38	42

Computed DNL, dB	54
% Daytime Energy	64%
% Nighttime Energy	36%

GPS Coordinates
38°30'59.62"N
121°19'32.57"W

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Appendix C-2
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Friday, September 15, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	41	53	41	39
1:00 AM	42	57	40	38
2:00 AM	40	57	39	37
3:00 AM	41	51	40	38
4:00 AM	46	55	46	41
5:00 AM	50	69	48	46
6:00 AM	51	60	50	48
7:00 AM	50	57	49	46
8:00 AM	47	61	45	43
9:00 AM	53	79	42	40
10:00 AM	43	60	40	39
11:00 AM	55	83	41	39
12:00 PM	44	55	42	39
1:00 PM	48	64	43	40
2:00 PM	44	58	42	40
3:00 PM	44	58	43	40
4:00 PM	45	67	42	39
5:00 PM	44	59	42	39
6:00 PM	45	55	44	42
7:00 PM	47	59	46	44
8:00 PM	46	63	45	44
9:00 PM	46	53	46	44
10:00 PM	46	59	45	43
11:00 PM	43	52	43	41

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	55	43	48	51	40	46
Lmax (Maximum)	83	53	62	69	51	57
L50 (Median)	49	40	44	50	39	44
L90 (Background)	46	39	41	48	37	41

Computed DNL, dB	53
% Daytime Energy	75%
% Nighttime Energy	25%

GPS Coordinates
38°30'59.62"N
121°19'32.57"W

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Appendix C-3
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Saturday, September 16, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	41	51	41	39
1:00 AM	42	61	41	38
2:00 AM	40	58	40	38
3:00 AM	40	54	39	37
4:00 AM	42	51	42	38
5:00 AM	45	53	45	43
6:00 AM	47	54	47	46
7:00 AM	47	62	46	44
8:00 AM	46	56	45	44
9:00 AM	46	64	44	43
10:00 AM	43	53	43	41
11:00 AM	45	59	43	41
12:00 PM	45	59	43	41
1:00 PM	43	63	42	39
2:00 PM	47	69	42	39
3:00 PM	42	55	40	38
4:00 PM	42	52	42	39
5:00 PM	44	56	43	40
6:00 PM	47	63	44	42
7:00 PM	51	74	45	43
8:00 PM	45	58	45	43
9:00 PM	46	63	44	42
10:00 PM	44	56	43	41
11:00 PM	42	51	41	40

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	51	42	46	47	40	43
Lmax (Maximum)	74	52	60	61	51	54
L50 (Median)	46	40	43	47	39	42
L90 (Background)	44	38	41	46	37	40

Computed DNL, dB	50
% Daytime Energy	74%
% Nighttime Energy	26%

GPS Coordinates
38°30'59.62"N
121°19'32.57"W

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Appendix C-4
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Sunday, September 17, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	40	54	40	37
1:00 AM	40	52	39	36
2:00 AM	39	54	37	35
3:00 AM	37	52	36	34
4:00 AM	39	50	38	35
5:00 AM	40	49	40	37
6:00 AM	43	54	42	39
7:00 AM	44	57	42	40
8:00 AM	47	68	44	41
9:00 AM	46	65	43	41
10:00 AM	46	63	43	40
11:00 AM	44	59	41	38
12:00 PM	43	61	42	39
1:00 PM	49	73	43	39
2:00 PM	45	61	43	40
3:00 PM	44	67	42	40
4:00 PM	44	68	42	40
5:00 PM	44	56	43	41
6:00 PM	48	73	44	42
7:00 PM	47	65	45	43
8:00 PM	46	55	45	42
9:00 PM	44	64	42	40
10:00 PM	43	56	41	39
11:00 PM	40	50	39	37

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	49	43	46	43	37	40
Lmax (Maximum)	73	55	64	56	49	52
L50 (Median)	45	41	43	42	36	39
L90 (Background)	43	38	40	39	34	37

Computed DNL, dB	48
% Daytime Energy	85%
% Nighttime Energy	15%

GPS Coordinates
38°30'59.62"N
121°19'32.57"W

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Appendix C-5
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Monday, September 18, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	38	46	38	36
1:00 AM	37	47	37	35
2:00 AM	37	49	36	35
3:00 AM	39	47	38	35
4:00 AM	47	56	48	40
5:00 AM	50	55	50	48
6:00 AM	51	56	50	49
7:00 AM	49	61	48	45
8:00 AM	45	56	44	42
9:00 AM	45	63	42	40
10:00 AM	42	58	41	39
11:00 AM	46	62	41	38
12:00 PM	56	80	43	40
1:00 PM	51	77	40	38
2:00 PM	44	60	41	38
3:00 PM	50	71	43	40
4:00 PM	52	72	45	42
5:00 PM	47	57	46	44
6:00 PM	48	57	47	45
7:00 PM	48	68	46	44
8:00 PM	47	64	45	43
9:00 PM	44	59	43	41
10:00 PM	42	52	42	40
11:00 PM	41	57	40	38

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	56	42	49	51	37	45
Lmax (Maximum)	80	56	64	57	46	52
L50 (Median)	48	40	44	50	36	42
L90 (Background)	45	38	41	49	35	39

Computed DNL, dB	53
% Daytime Energy	80%
% Nighttime Energy	20%

GPS Coordinates
38°30'59.62"N
121°19'32.57"W

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Appendix C-6
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Thursday, September 14, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	42	56	41	40
1:00 AM	43	54	42	39
2:00 AM	43	63	42	40
3:00 AM	43	67	41	39
4:00 AM	46	73	43	41
5:00 AM	51	71	46	43
6:00 AM	51	72	48	45
7:00 AM	48	71	47	45
8:00 AM	51	78	44	43
9:00 AM	49	73	44	42
10:00 AM	51	79	42	40
11:00 AM	52	78	41	39
12:00 PM	50	78	40	38
1:00 PM	49	73	40	38
2:00 PM	47	69	41	38
3:00 PM	50	77	41	39
4:00 PM	48	71	43	39
5:00 PM	44	70	42	39
6:00 PM	44	67	42	39
7:00 PM	49	71	42	39
8:00 PM	48	69	42	40
9:00 PM	46	70	44	41
10:00 PM	45	50	44	42
11:00 PM	45	62	43	42

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	52	44	49	51	42	47
Lmax (Maximum)	79	67	73	73	50	63
L50 (Median)	47	40	42	48	41	43
L90 (Background)	45	38	40	45	39	41

Computed DNL, dB	53
% Daytime Energy	74%
% Nighttime Energy	26%

GPS Coordinates
38°29'59.64"N
121°18'59.39"W

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Appendix C-7
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Friday, September 15, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	43	51	41	39
1:00 AM	42	51	41	39
2:00 AM	42	51	41	38
3:00 AM	44	72	42	39
4:00 AM	45	73	42	40
5:00 AM	48	71	45	42
6:00 AM	49	71	47	45
7:00 AM	49	73	48	45
8:00 AM	48	67	45	42
9:00 AM	46	70	41	39
10:00 AM	45	71	40	38
11:00 AM	44	68	40	38
12:00 PM	44	59	40	38
1:00 PM	46	71	40	38
2:00 PM	44	60	40	38
3:00 PM	45	73	41	38
4:00 PM	47	73	41	38
5:00 PM	45	63	41	38
6:00 PM	43	55	42	39
7:00 PM	46	71	43	39
8:00 PM	45	56	44	42
9:00 PM	43	55	42	41
10:00 PM	43	54	42	40
11:00 PM	42	56	41	40

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	49	43	46	49	42	45
Lmax (Maximum)	73	55	66	73	51	61
L50 (Median)	48	40	42	47	41	43
L90 (Background)	45	38	39	45	38	40

Computed DNL, dB	52
% Daytime Energy	67%
% Nighttime Energy	33%

GPS Coordinates
38°29'59.64"N
121°18'59.39"W

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Appendix C-8
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Saturday, September 16, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	56	79	40	38
1:00 AM	43	50	43	39
2:00 AM	42	49	42	40
3:00 AM	44	66	42	40
4:00 AM	45	74	41	40
5:00 AM	43	52	42	41
6:00 AM	45	57	44	42
7:00 AM	49	78	45	43
8:00 AM	48	76	44	42
9:00 AM	53	83	43	41
10:00 AM	50	78	42	40
11:00 AM	49	78	43	40
12:00 PM	51	80	42	39
1:00 PM	52	82	42	39
2:00 PM	45	62	41	38
3:00 PM	44	59	41	39
4:00 PM	45	72	42	39
5:00 PM	44	67	42	39
6:00 PM	48	69	43	39
7:00 PM	47	68	43	40
8:00 PM	45	60	43	41
9:00 PM	46	68	43	42
10:00 PM	44	71	42	41
11:00 PM	43	54	42	41

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	53	44	49	56	42	48
Lmax (Maximum)	83	59	72	79	49	61
L50 (Median)	45	41	43	44	40	42
L90 (Background)	43	38	40	42	38	40

Computed DNL, dB	55
% Daytime Energy	64%
% Nighttime Energy	36%

GPS Coordinates
38°29'59.64"N
121°18'59.39"W

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Appendix C-9
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Sunday, September 17, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	42	54	41	40
1:00 AM	42	51	41	40
2:00 AM	41	48	41	40
3:00 AM	44	72	41	40
4:00 AM	42	51	41	39
5:00 AM	45	71	40	39
6:00 AM	42	58	41	40
7:00 AM	46	64	43	40
8:00 AM	45	66	43	40
9:00 AM	47	71	43	40
10:00 AM	45	62	42	39
11:00 AM	45	61	42	39
12:00 PM	44	57	42	39
1:00 PM	48	72	43	40
2:00 PM	45	61	42	39
3:00 PM	44	58	42	39
4:00 PM	47	74	43	40
5:00 PM	52	76	43	40
6:00 PM	46	61	43	40
7:00 PM	47	62	45	41
8:00 PM	46	58	45	42
9:00 PM	44	58	43	40
10:00 PM	44	57	42	40
11:00 PM	43	52	42	41

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	52	44	47	45	41	43
Lmax (Maximum)	76	57	64	72	48	57
L50 (Median)	45	42	43	42	40	41
L90 (Background)	42	39	40	41	39	40

Computed DNL, dB	50
% Daytime Energy	80%
% Nighttime Energy	20%

GPS Coordinates
38°29'59.64"N
121°18'59.39"W

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Appendix C-10
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Monday, September 18, 2023

Hour	Leq	Lmax	L50	L90
12:00 AM	43	54	43	41
1:00 AM	42	50	42	41
2:00 AM	42	52	42	41
3:00 AM	45	70	43	41
4:00 AM	45	71	43	42
5:00 AM	50	71	45	43
6:00 AM	50	74	47	45
7:00 AM	50	73	47	45
8:00 AM	48	72	44	42
9:00 AM	50	73	42	40
10:00 AM	47	74	41	39
11:00 AM	54	77	41	38
12:00 PM	54	74	41	38
1:00 PM	52	76	40	38
2:00 PM	50	73	41	38
3:00 PM	50	73	41	39
4:00 PM	54	77	43	40
5:00 PM	48	71	45	42
6:00 PM	46	61	44	41
7:00 PM	49	72	44	40
8:00 PM	49	71	44	42
9:00 PM	44	53	43	41
10:00 PM	44	58	43	41
11:00 PM	43	52	43	41

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	54	44	51	50	42	46
Lmax (Maximum)	77	53	71	74	50	61
L50 (Median)	47	40	43	47	42	43
L90 (Background)	45	38	40	45	41	42

Computed DNL, dB	53
% Daytime Energy	83%
% Nighttime Energy	17%

GPS Coordinates
38°29'59.64"N
121°18'59.39"W

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Appendix C-11
Long-Term Ambient Noise Monitoring Results, LT-3
Aspen VIII & IX Amendment - Sacramento County, California
Thursday, November 1, 2007

Hour	Leq	Lmax	L50	L90
12:00 AM	41	62	37	35
1:00 AM	41	65	36	34
2:00 AM	45	62	39	37
3:00 AM	40	50	39	37
4:00 AM	53	75	43	39
5:00 AM	51	70	45	41
6:00 AM	56	79	49	45
7:00 AM	53	74	50	48
8:00 AM	50	68	48	46
9:00 AM	46	63	44	41
10:00 AM	47	67	45	42
11:00 AM	55	77	44	41
12:00 PM	55	81	42	39
1:00 PM	52	76	42	39
2:00 PM	51	70	42	38
3:00 PM	58	79	46	41
4:00 PM	55	80	46	41
5:00 PM	60	86	49	43
6:00 PM	49	65	46	41
7:00 PM	56	79	45	41
8:00 PM	52	77	42	39
9:00 PM	49	71	42	39
10:00 PM	49	71	41	38
11:00 PM	42	56	39	37

	Statistical Summary					
	Daytime (7 a.m. - 10 p.m.)			Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	60	46	54	56	40	50
Lmax (Maximum)	86	63	74	79	50	66
L50 (Median)	50	42	45	49	36	41
L90 (Background)	48	38	41	45	34	38

Computed DNL, dB	57
% Daytime Energy	82%
% Nighttime Energy	18%

GPS Coordinates
38°29'59.64"N
121°18'59.39"W

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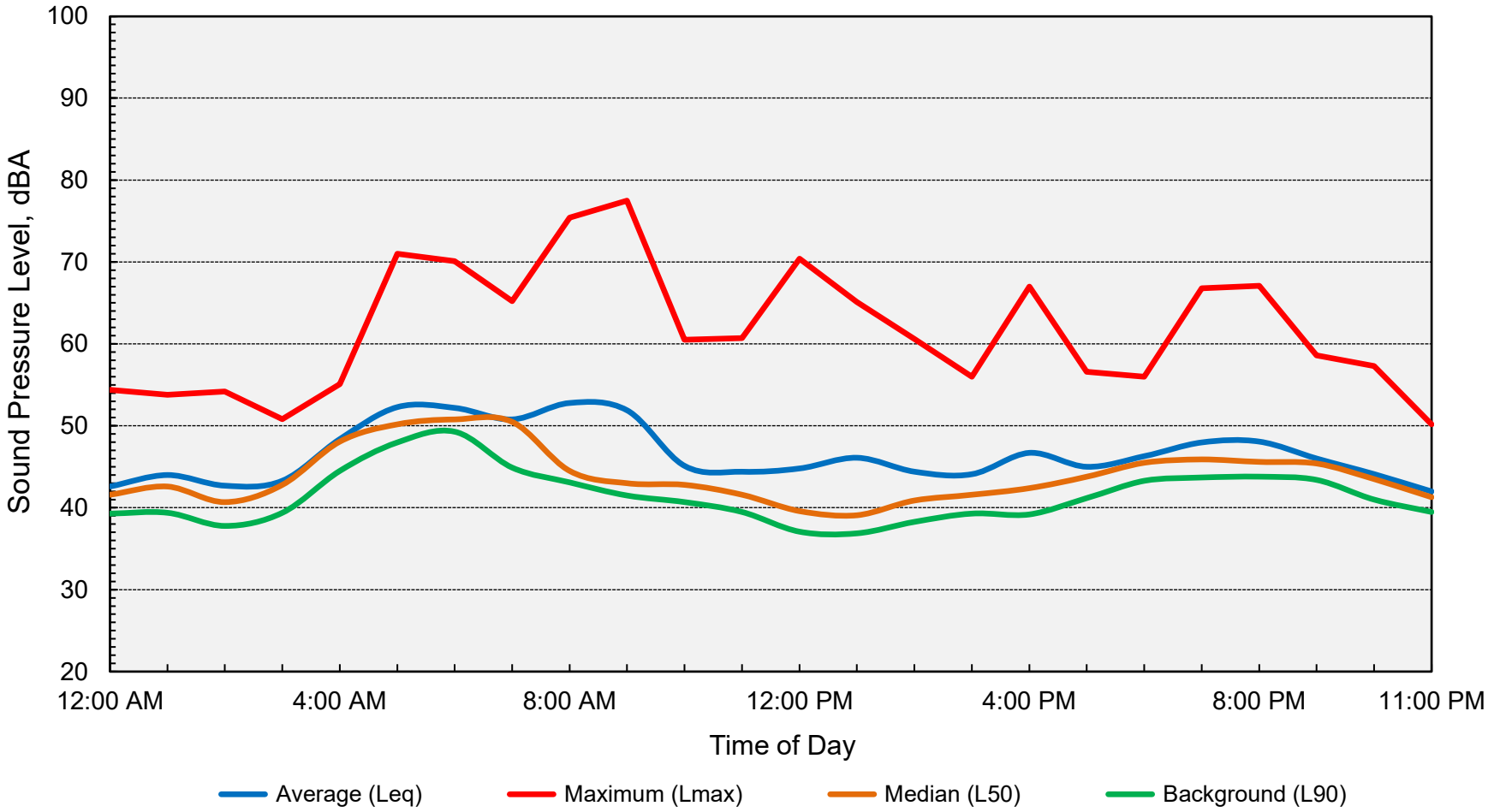
Appendix D-1
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Thursday, September 14, 2023



Computed DNL = 54 dB

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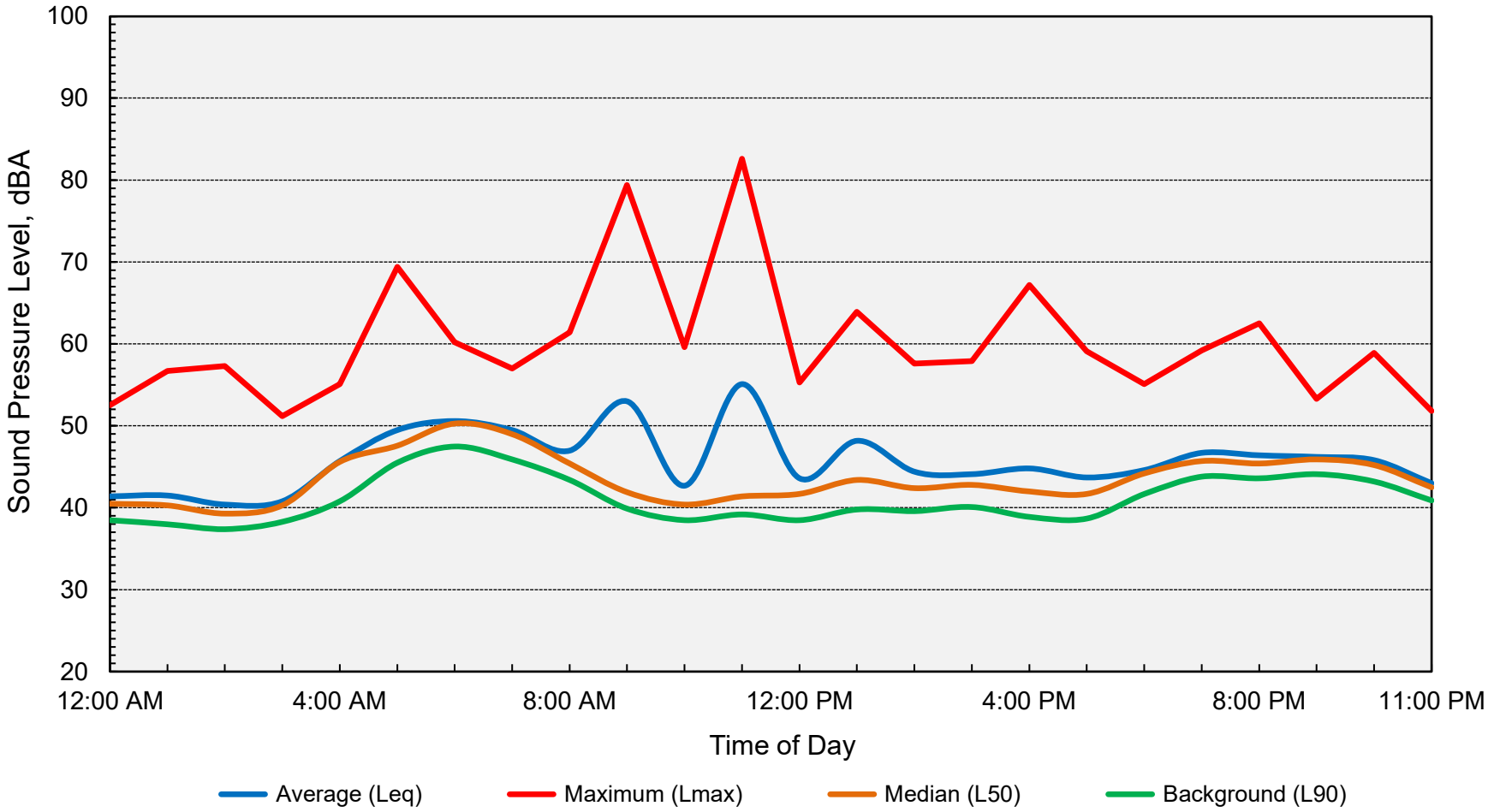
Appendix D-2
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Friday, September 15, 2023



Computed DNL = 53 dB

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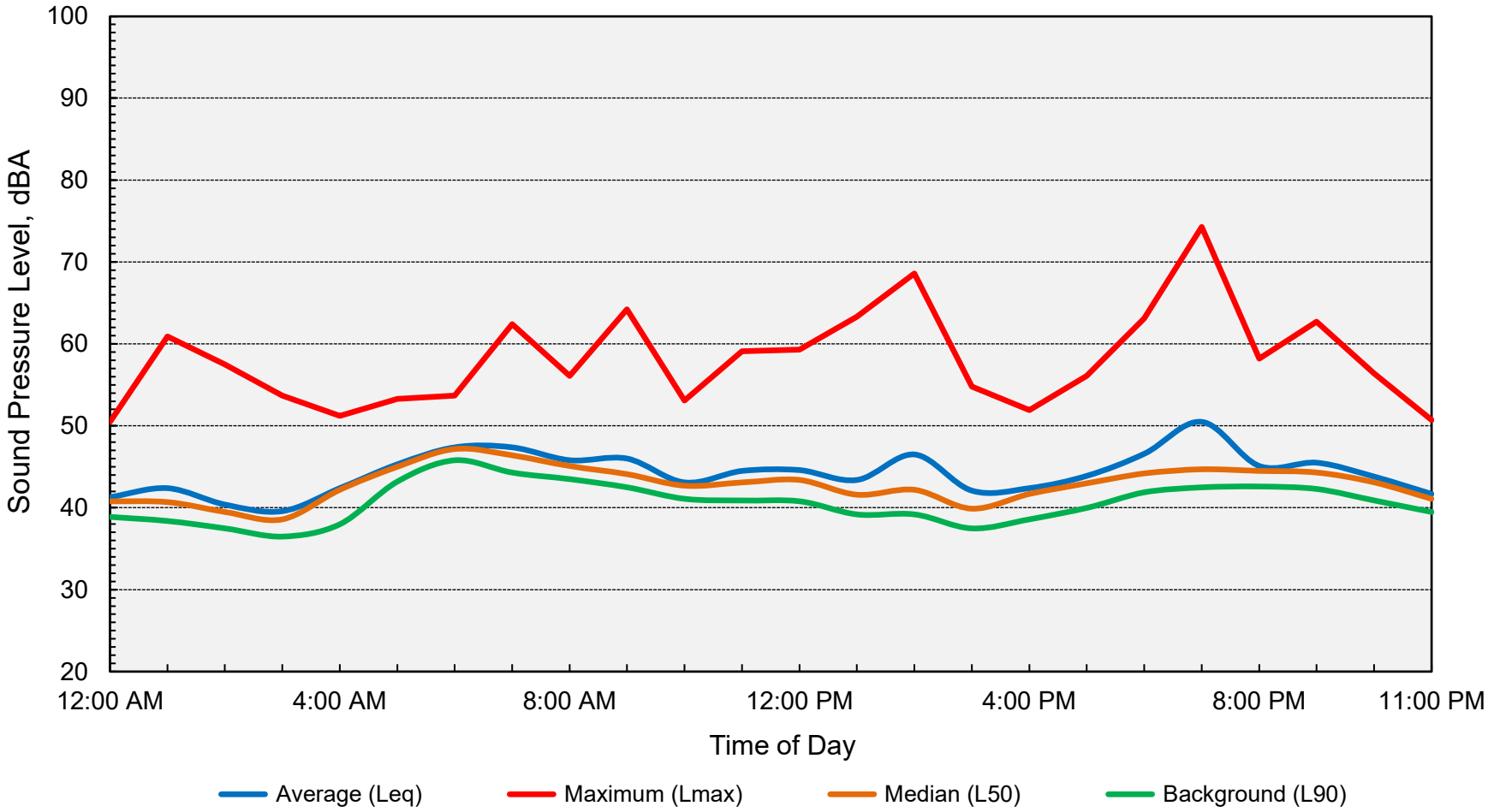
Appendix D-3
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Saturday, September 16, 2023



Computed DNL = 50 dB

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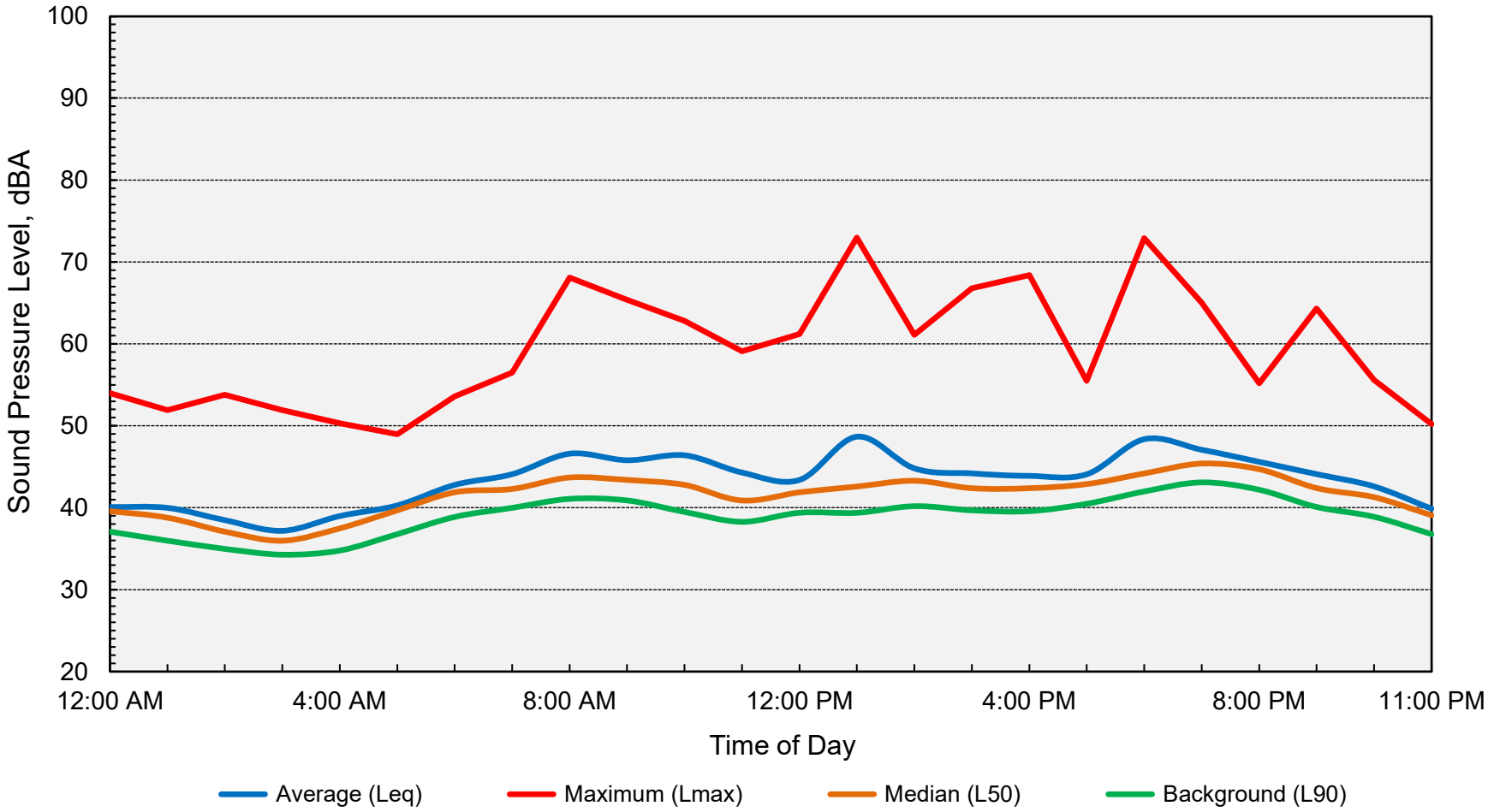
Appendix D-4
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Sunday, September 17, 2023



Computed DNL = 48 dB

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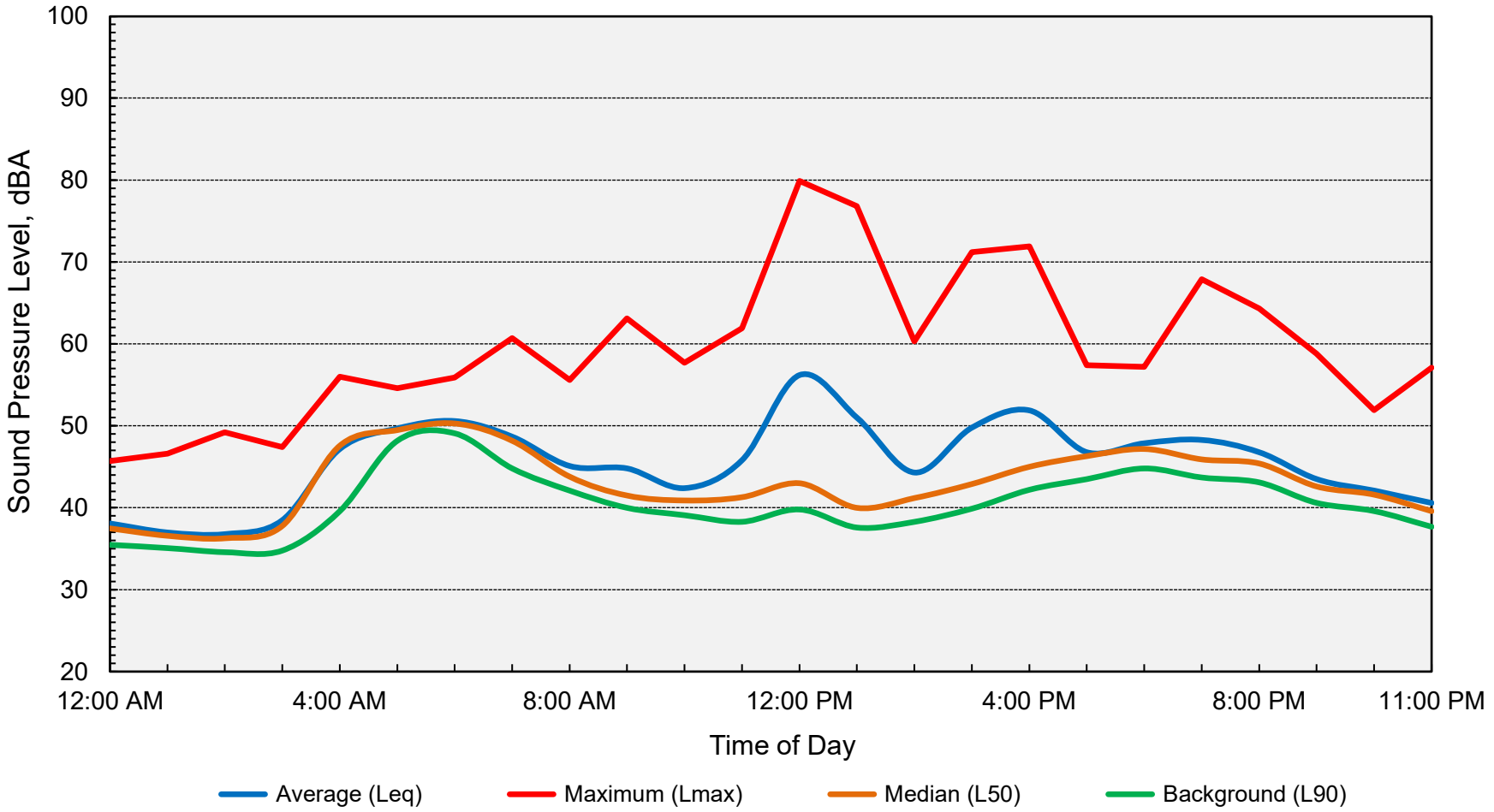
Appendix D-5
Long-Term Ambient Noise Monitoring Results, LT-1
Aspen VIII & IX Amendment - Sacramento County, California
Monday, September 18, 2023



Computed DNL = 53 dB

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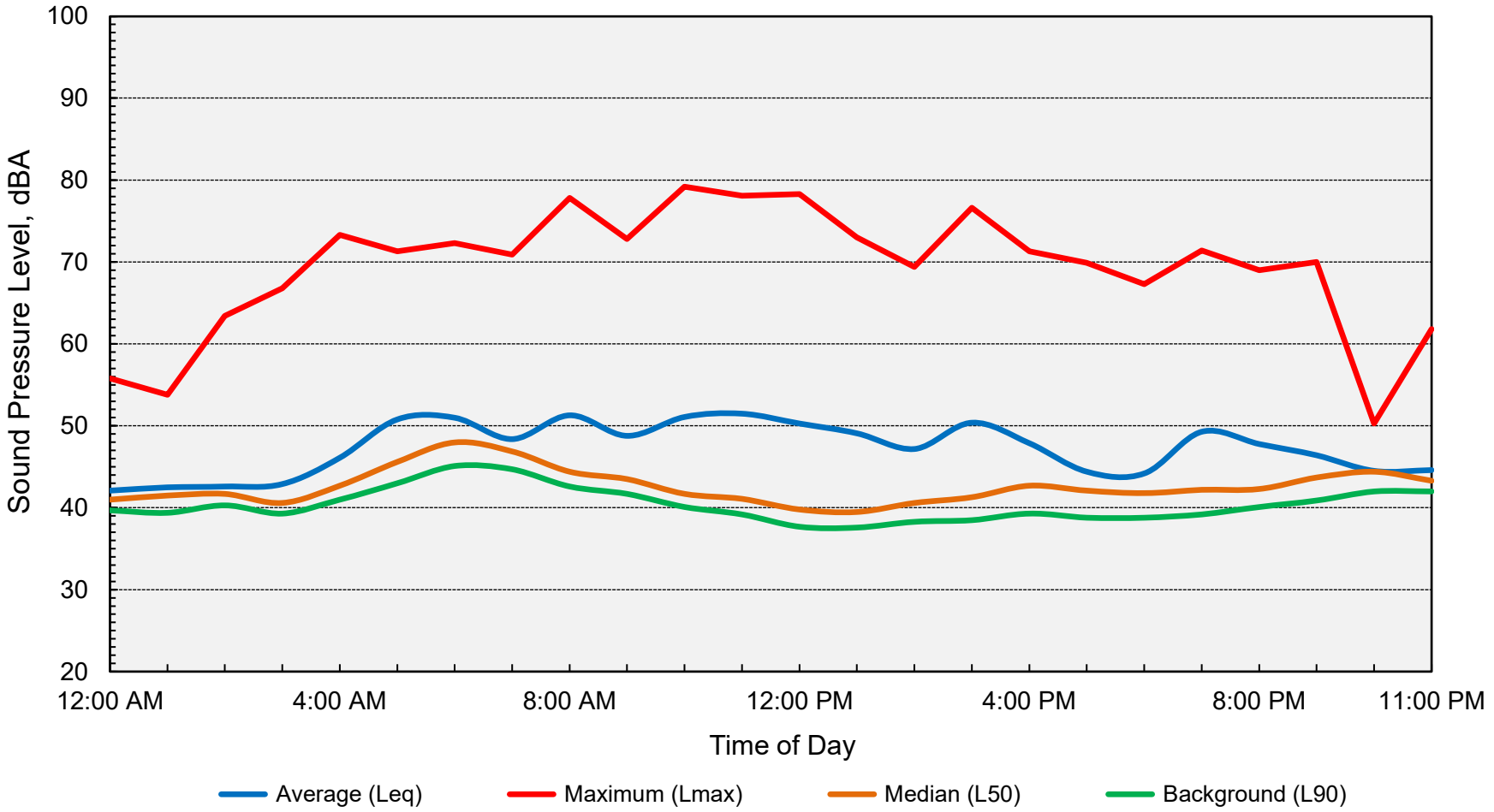
Appendix D-6
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Thursday, September 14, 2023



Computed DNL = 53 dB

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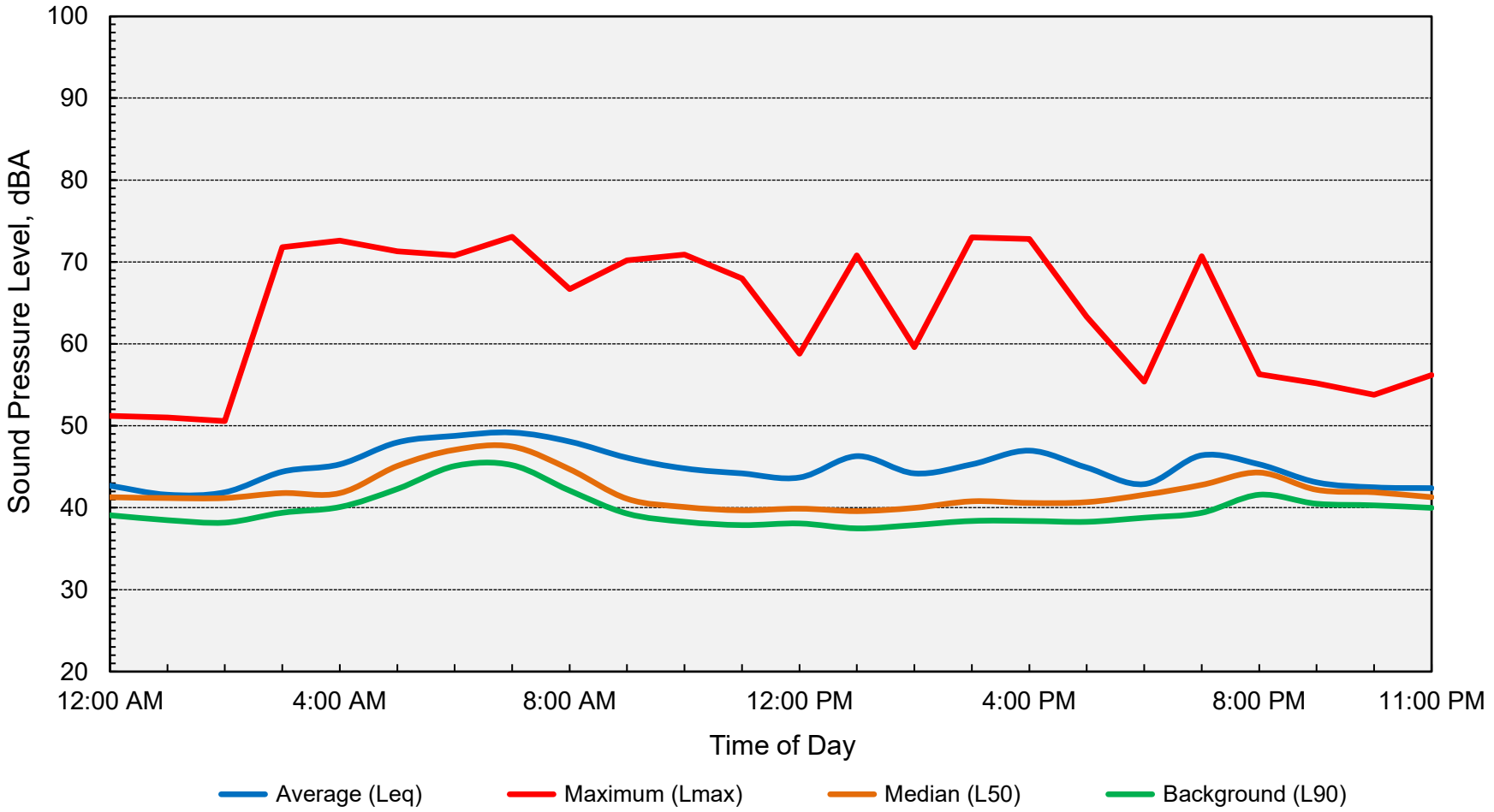
Appendix D-7
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Friday, September 15, 2023



Computed DNL = 52 dB

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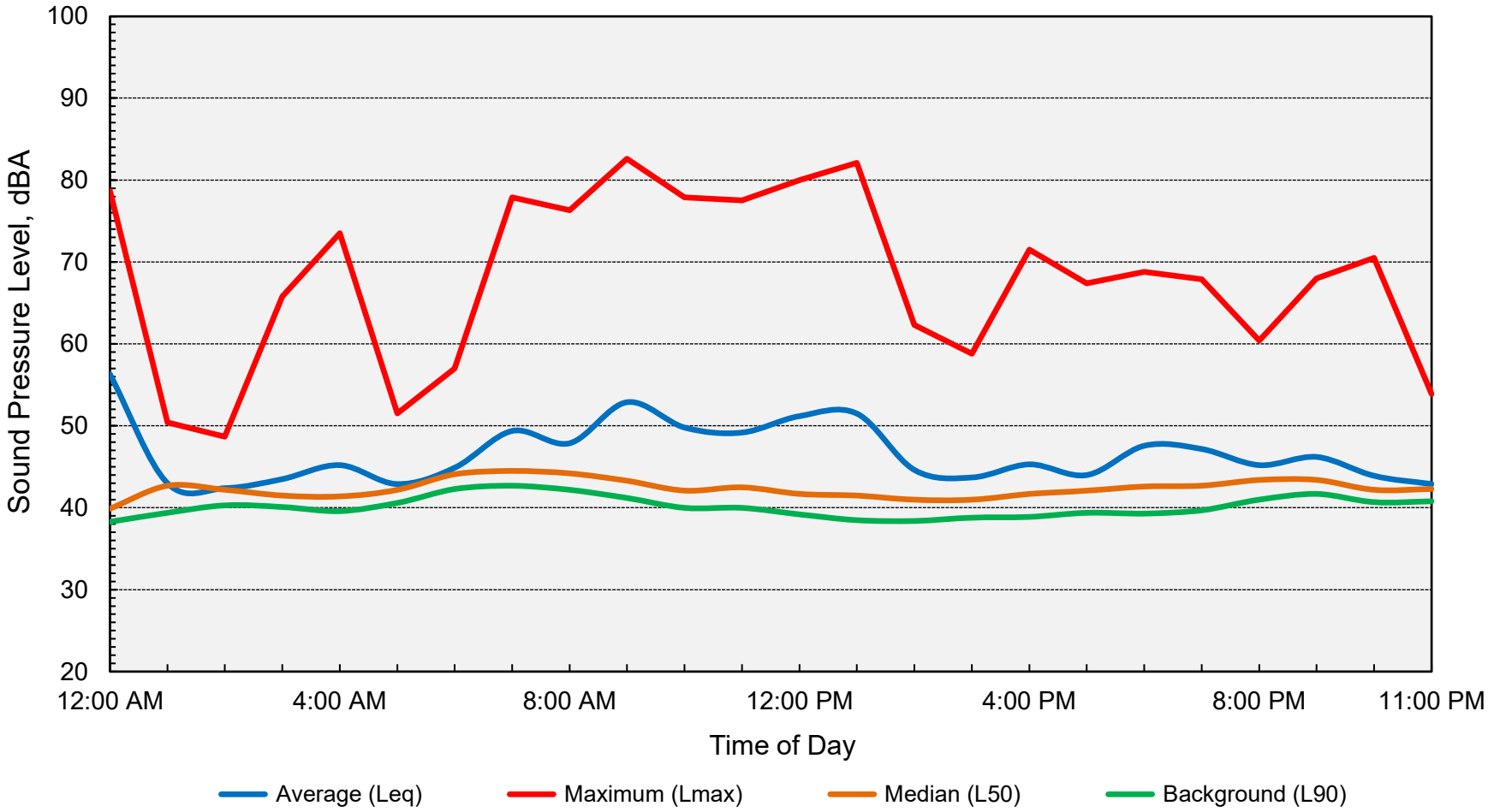
Appendix D-8
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Saturday, September 16, 2023



Computed DNL = 55 dB

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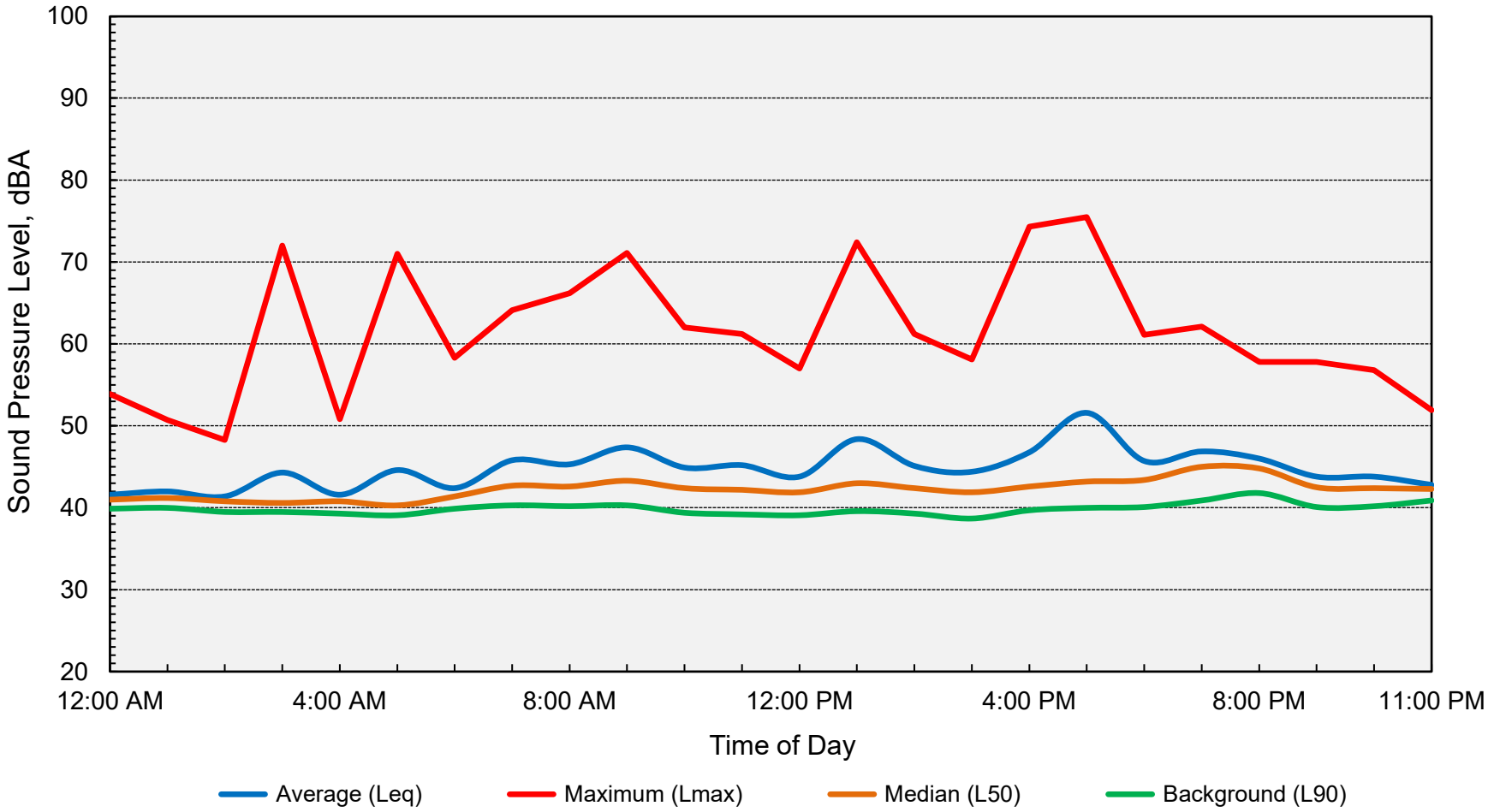
Appendix D-9
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Sunday, September 17, 2023



Computed DNL = 50 dB

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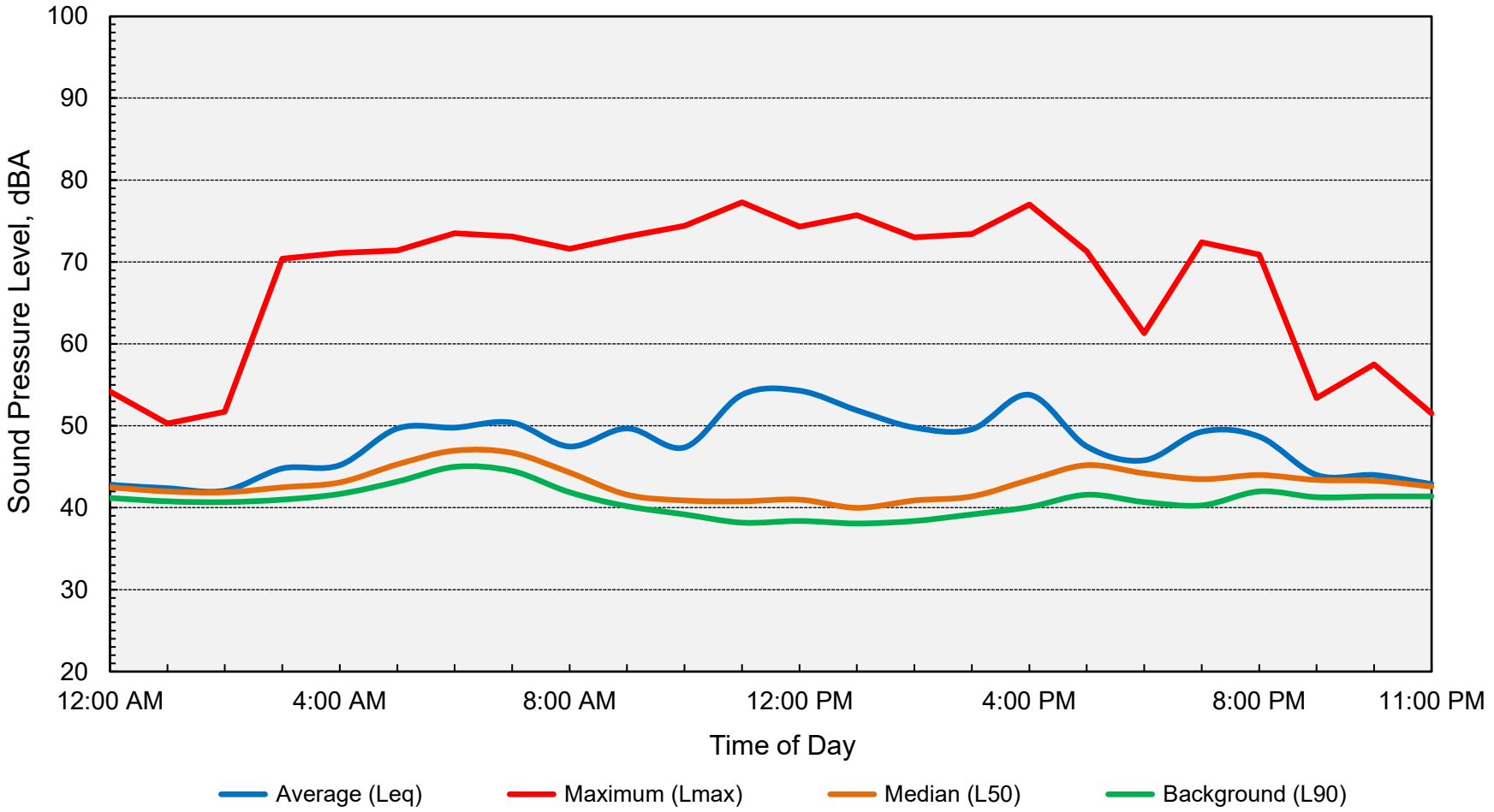
Appendix D-10
Long-Term Ambient Noise Monitoring Results, LT-2
Aspen VIII & IX Amendment - Sacramento County, California
Monday, September 18, 2023



Computed DNL = 53 dB

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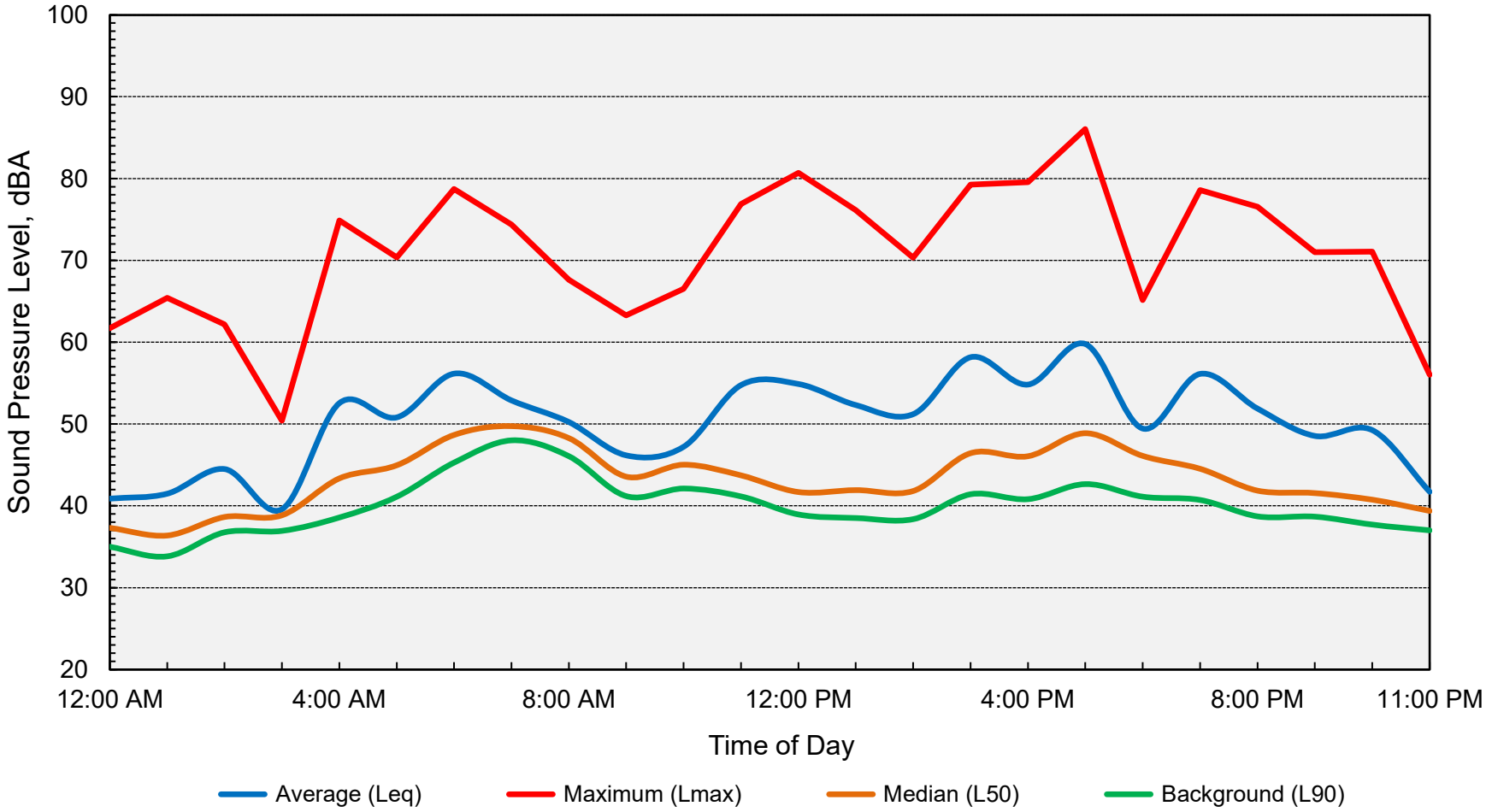
Appendix D-11
Long-Term Ambient Noise Monitoring Results, LT-3
Aspen VIII & IX Amendment - Sacramento County, California
Thursday, November 1, 2007



Computed DNL = 57 dB

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APPENDIX I

TRAFFIC EVALUATION

FEHR PEERS

Memorandum

Date: March 13, 2024

To: Nick Cronenwett, Teichert Materials

From: David Manciati, Fehr & Peers

Subject: Aspen VIII & IX Use Permit Amendment – Traffic Evaluation

SA24-0256

Fehr & Peers has reviewed the *Traffic Report for the Aspen VIII and IX Project* (Fehr & Peers, June 2015) in the context of Teichert Materials' *Aspen VIII and IX Use Permit Amendment* (dated March 5, 2024). This memorandum summarizes the proposed amendment's effect on the traffic analysis and findings contained in the 2015 report.

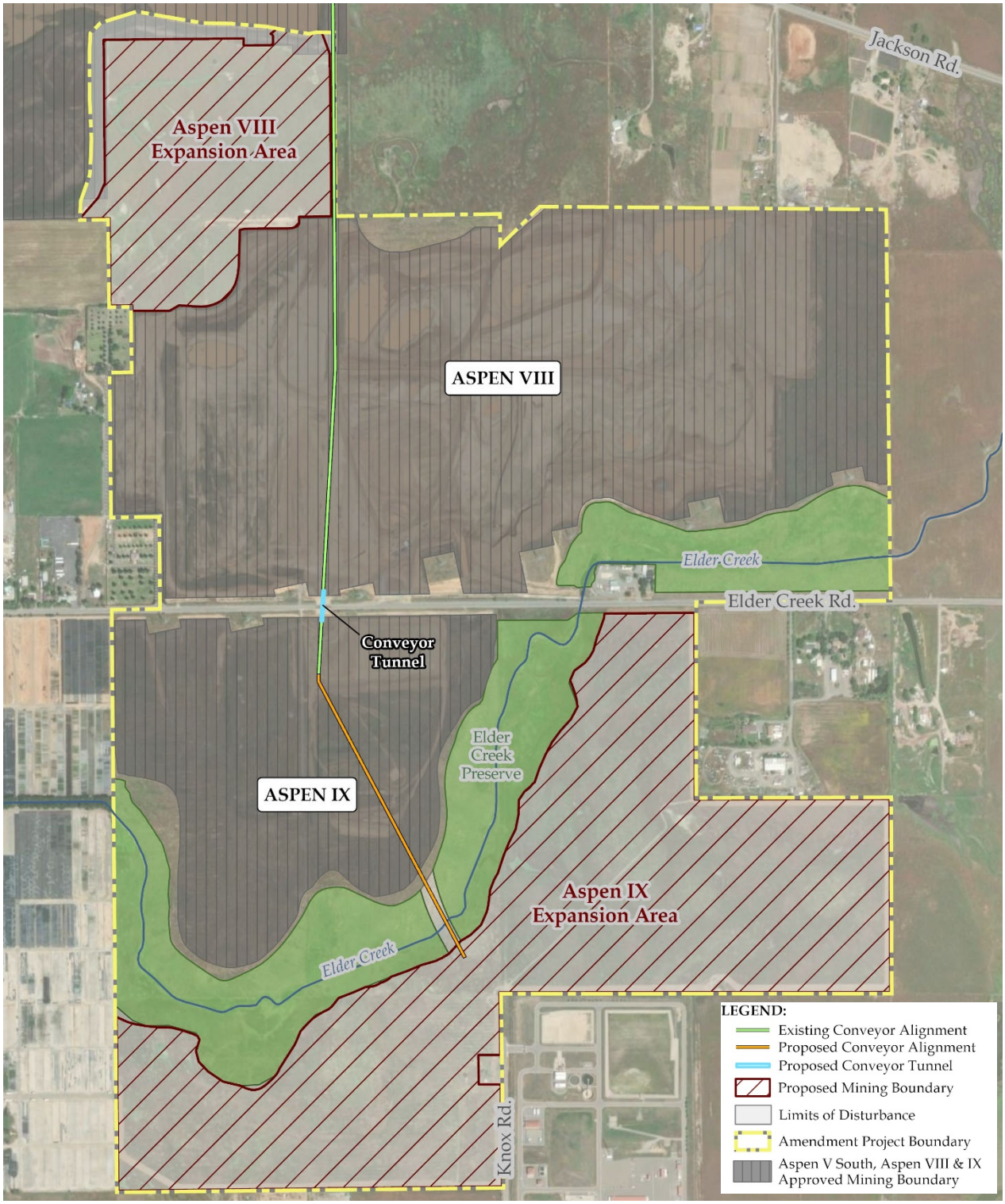
Proposed Use Permit Amendment

The proposed project is an expansion of surface mining operations at Teichert's existing Aspen VIII & IX mining site located in unincorporated Sacramento County along Elder Creek Road. The existing entitlement allows for surface mining on about 353 acres of a 683-acre project site. The proposed project would expand mining of aggregate material (sand and gravel) by about 245.6 acres and include the following components that are relevant to the 2015 traffic study:

- Aspen VIII Expansion Area – Addition of 63.26 acres of surface mining operations located near the northwest corner of the existing Aspen VIII site.
- Aspen IX Expansion Area – Addition of 182.38 acres of surface mining operations located south of Elder Creek. This land would be added to Aspen IX.
- Conveyor Extension – Extension of the existing electric conveyor belt over Elder Creek to reach the proposed Aspen IX expansion area. This would allow aggregate to be moved via conveyor belt to Teichert's Perkins Plant for processing.
- Duration of Mining Operations – Extend the duration of mining operations from December 31, 2031 to December 31, 2046.
- Site Access – Use of Florin Road and Knox Road for employee vehicle access to the proposed Aspen IX expansion area.

Figure 1 shows the proposed Aspen VIII & IX Amendment and the components described above.

Figure 1 – Aspen VIII & IX Amendment



Based on communications with Teichert Materials, the project would not include the following:

- Changes to Production – Current production levels, products, and outputs at other facilities (such as the Perkins Plant) will not change.
- Overburden Removal – Expansion site overburden will not be removed (i.e., hauled off-site).
- Increased Employment – Current employment levels will be maintained at Aspen VIII and IX.

2015 Traffic Report

Analysis Methodology

The 2015 study analyzed traffic operations for 7 intersections, 7 roadway segments, and 4 freeway segments near the then-proposed Aspen VIII and IX sites using methodologies contained in the *Highway Capacity Manual 2010* (Transportation Research Board). The study generally focused on analyzing the near-term impact of the project, with study facilities analyzed under existing and existing plus project conditions. No cumulative analysis was conducted. The study also evaluated potential near-term project impacts to transit, bicycle, and pedestrian facilities.

Additionally, the 2015 study evaluated the then-proposed Aspen VIII driveway on Elder Creek Road using Transoft Solutions' AutoTurn software to confirm that the proposed intersection geometrics could accommodate truck turns.

Trip Generation

The 2015 traffic study included trip generation for employees and for "overburden" removal requiring the transport of 1,000,000 cubic yards of overburden material off-site via trucks during the first 5 years of site operation. **Table 1** shows the trip generation estimates from the traffic report. In passenger car equivalents (PCE), Aspen VIII and Aspen IX were estimated to generate a combined 9 employee trips during the morning and evening peak hours, as well as 240 overburden trips during each peak hour.

Table 1: Trip Generation Estimates

Land Use	Quantity	Units	Trip Generation Source	Daily Trips	AM Peak Hour Trips [1]			PM Peak Hour Trips [2]		
					In	Out	Total	In	Out	Total
Employees & Service	9 emp	4.0 TE/emp	Applicant	36	8	1	9	1	8	9
Overburden Trucks	350 trucks	2 trips/truck	Applicant	700	40	40	80	40	40	80
Passenger Car Equivalent (3.0 PCE)				2,100	120	120	240	120	120	240
Final Net New Trips (PCE)				**2,136**	**128**	**121**	**249**	**121**	**128**	**249**

Notes: [1]Assumes that 20% of total daily truck traffic (both directions) occurs in the AM peak hour, with 50% inbound/50% outbound.
[2]Assumes that 10% of total daily truck traffic (both directions) occurs in the PM peak hour, with 50% inbound/50% outbound.
Source: Fehr & Peers, 2015.

Key Findings

The following are key findings from the 2015 report:

- Project impacts to intersections operations, roadway segment operations, off-ramp queuing (at the US 50/Bradshaw Road interchange), and transit/bicycle/pedestrian facilities were found to be "less than significant."
- The Aspen VIII driveway on Elder Creek Road was confirmed to accommodate truck turns based on the intersection geometrics proposed in 2015.
- Two freeway facilities operated at LOS F during the AM peak hour under existing conditions, including westbound US 50 from Mather Field Road to Bradshaw Road and westbound US 50 from Bradshaw Road to Watt Avenue. The project was estimated to add 6 vehicle trips to these facilities, resulting in a "significant and unavoidable" impact. As a result, the study prescribed that the project shall participate on a fair share basis in improvements that could directly reduce the severity of the project's impact and/or provide operational benefits to the US 50 corridor in general.

Traffic Evaluation

Based on our review of the 2015 traffic report, the proposed Use Permit Amendment would not result in near-term traffic impacts above those previously identified in the 2015 report. The primary reasons for this conclusion are outlined below:

Trip Generation – The project would not increase employment levels at Aspen VIII or Aspen IX, nor include off-site overburden removal. Therefore, project trip generation would not increase above that estimated in the 2015 study (see **Table 1**).

Although the proposed project could potentially increase the stock of mined aggregate, no changes are proposed to operations at any off-site user facilities (such as the Perkins Plant), which would continue to operate under existing regulations and permitted outputs. Therefore, the project would not indirectly increase truck trips at other user facilities to a level above that already permitted at those facilities.

- Conveyor System – While the project would expand surface mining operations to an additional 245.6 acres, it would also expand the conveyor belt system to preclude the need to haul aggregate off-site using trucks. The conveyor belt system would allow aggregate mined on the proposed Aspen VIII and IX expansion sites to flow directly to the Perkins Plant.
- Employees – As shown in Table 1, the employee trip generation is relatively low (i.e., 9 total trips during peak hours). Even if all employees used Florin Road and Knox Road to access the Aspen IX expansion site, the traffic impact to the adjacent roadway network is likely minimal[1].

[1] This should be confirmed with Sacramento County's Department of Transportation.

- Sacramento County Guidelines – For context, Sacramento County's *Transportation Analysis Guidelines* (2020) requires a local transportation analysis if projects generate more than 100 peak hour trips or 1,000 daily trips. These thresholds are substantially larger than the project's employee trip generation.
- Bicycle/Pedestrian/Transit – The proposed project would not change the near-term transit/bicycle/pedestrian impact findings in the 2015 traffic report. The new driveway(s) on Knox Road would be built to comply with County planning documents and design guidelines.

Therefore, potential impacts to the 2015 intersection, roadway segment, freeway segment, and off-ramp queuing operations would not change.